Yaqona – more commonly known throughout Pasifika as kava – is presented and drunk in Fiji at almost every event from birth to death. Yaqona is considered an ingestible manifestation of the people, their land and cultural systems and consumed by many Fijians on a nightly basis. In a first of its kind study, Aporosa used cognitive tests and interviews that showed yaqona use by teachers can disrupt cognition and in turn negatively impact teaching quality on mornings following yaqona consumption. Traditionally, development theory has prescribed prohibition and situational bans in cases where indigenous substances negatively impact productivity. However, in the case of yaqona, Aporosa argues prohibition would be short-sighted as this indigenous substance is critical to the facilitation of school function, identity formation and academic achievement – all elements necessary to development. This study is important for policy makers and development practitioners, demonstrating the need to consider wider cultural and societal issues in development.

‘Apo’ Aporosa is maternally related to the village of Naduri in Macuata, Fiji. He is based in New Zealand although regularly visits his ancestral homeland where he has taught secondary school students and continues to conduct research, assist with grassroot-level development projects, and farms yaqona. He has a Certificate in Adult Teaching from Waikato Technical Institute and a Post Graduate Diploma, Masters (with Distinction), and Doctorate in Development Studies from Massey University, New Zealand. Aporosa is currently a researcher at the Waikato-Tainui College for Research and Development.
YAQONA (KAVA) AND EDUCATION IN FIJI:
INVESTIGATING ‘CULTURAL COMPLEXITIES’
FROM A POST-DEVELOPMENT PERSPECTIVE

S. ‘APO’ APOROSA

Pasifika@Massey
This thesis is dedicated to the late Tui Rauni (sub-district chief: Yawe, Kadavu, Fiji) Sivorosi Tomasi Vasu (1927-2009), a father figure I greatly respected and a man who demonstrated to me what it is to be chiefly and Fijian.
IVAKAMACALA TAUMADA (ABSTRACT)

Na gunu yaqona se tiki ni itovo vakavanua e Viti ena gauna qo. Ia e vica na itukutuku se bera ni vakadeitaki e vakaraiteki kina ni gunu yaqona vakasivia e dau vakaleqa na cakacaka kei na toso ena levu ni sikele. Na leqa qo e tarara na vuli, na ka e okata na matanitu me gacagaca bibi ena veivakatorocaketaki. Sa mani lomalomaruqana Tabana ni Vuli ni dau dokai kina na yaqona ena itovo, qai leqataki tale de vakataotaka na toso ni vuli ni qaravi vakaka kina na veivakavulici. Qo gona na vakadidike ni veidre vou ni gauna qo.

Na vakadidike qo era a dikevi kina na gasonivuli nira se qai curu yani i valenivuli ena matake ni oti mai na gunu ena bogi. Ni salavata kei na itukutuku tale eso ni noda itovo sa via macala kina ni gunuvi sivia ni wainivanua qo e vakaleqa na cakacaka, vakavuna vakalevu tale ga na bera kei na vakalutu cakacaka. Qo e rawa ni tukuni ni vakaleqa na inaki raraba ni veivakatorocaketaki. Ia e veicalati kei na nodra ivakamacala eso ra vakataroqila ena vakadidike qo, mana ni veivakavulici e vakatau ena yaqona baleta ni wainivanua qo e yawu ni noda itutu vakavanua, koya e gadrevi me mana kina na vuli, qai tokona tale ga na veiwekani ni matanitu kei na vanua (State/Community partnership), na veitauriliga e yawutaki vakabibi ena cau ni vanua ena cakacaka kei na ilavo me cici kina na koronivuli.

E taurivaki ena vakadidike qo e dua na yawu vou me dikevi kina na veidre ni itovo vakavanua kei na tosoiliu. Sa biu na rai makawa eso me vaka na 'modernisation', na 'alternative development' kei na 'neo-liberalism', me golevi na 'post-development' – na veivakatorocaketaki e yawutaki e dokai kina na vuku ni vanua, kauaitaki kina na domodra na lewenivanua kei na nodra itovo. Na rai vou qo e sega ni baleta na saumitaro se me togoraki ni iivali ni leqa, se ganita dina se sega, na tikina au vakabauta ni malumalumu kina na itovo makawa ni veivakatorocaketaki sa mai matau tu. Na vakadidike qo e lewena na vua ni vakadidike me mana kina na ivakarau ni lewa e so, salavata kei na kerekere ni Tabacacakaca ni Vuli me tosoi ni vakadidike ni veiwekani ni itovo kei na vuli. E vakaraiteki tale ga e ke na leqa e rawa ni yaco ni yali na noda itovo, baleta ni dikevi ga na mataqali veidre qo ena rai vakavalagi.
ABSTRACT

Embedded practices and systems associated with the consumption of yaqona (known Pasifika wide as kava) continue to express and demonstrate culture in contemporary Fiji. However, a number of untested reports suggest the over-consumption of yaqona manifests a physical hangover effect which inhibits productivity and development. This concern extends to the education arena where the Fiji Islands Government has embraced this development input to aid their national development agenda. This has created a unique challenge for the Fijian Ministry of Education (MoE) which both acknowledges the cultural importance of yaqona, but questions whether the over-consumption of this indigenous substance is impeding academic achievement through impacts to quality education delivery. This study investigates this unique traditional/contemporary tension.

To explore these hangover assertions, teachers in this research were cognitively assessed as they entered the classroom to teach in the morning following yaqona consumption. Together with ethnographic reports, the findings suggest that the over-consumption of this indigenous substance does inhibit work performance and increases the likelihood of lateness, absenteeism and presenteeism. From a development perspective this is argued to negatively impact on national development goals. However, the achievement and delivery of education was conversely described by research participants as dependent on yaqona. This is because the indigenous substance is critical to the identity reinforcement which aids academic accomplishment, while also underpinning the State/Community partnership – a union that relies heavily on community labour and financial input for school survival.

This study utilises Vanua Research – a post-development aligned framework – to investigate this unique traditional/contemporary tension. In contrast to the development approaches of modernisation, “alternative development” and neo-liberalism, post-development endorses locally conceived and driven development systems by recognising and legitimising traditional knowledge systems, local voices and culture. Moreover, post-development is not about coming up with answers or imposing a way ahead, an aspect deemed to be a key weakness of many of the conventional one-size-fits-all hegemonic development approaches. Instead, this study presents the findings to aid local decision-making processes under the MoE’s call for further research on the relationship between culture and education. Further, this investigation highlights the dangers to socio-cultural stability from cultural loss and displacement when complexities of this nature are considered purely from a Eurocentric development perspective.
VAKAVINAVINAKA (ACKNOWLEDGEMENT)

Na vakadidike oqo e dikeva na bula vakaivakarau ni yaqona, kena gunuvi na yaqona mai vei ira na qasenivuli, kei na kena vakilai e na gauna ni veivakatavulici e koronivuli. Oqo e dua na ulutaga titobu ka na rogoci kina na domodra era tokona ka vaka talega kina o ira era saqata na uto ni vakasama oqo. Au vakatutusa raraba vei kemuni kece sara o ni nanuma niu na vakalewai kemuni me baleta na nomuni dau gunuva na yaqona. E sega ni o koya qori na i naki ni vakadidike qo. Na i naki levu ni i vola qo me vakarabailevutaka e dua na ulutaga ka se sega soti ni levu na kena vakadikevi me yacova mai ni kua, vaka talega kina me na solia vei ira na lewe ni vanua e so na i vakamaca dina me vukea na kena veitalanoatoki mai vei ira era vakaitavitaki ira se taleitaka na veiva e baleta na veivakatorocaketaki ena veika vakavuli.

Era vakaitavi ena ena vakadidike qo e so era solia wale tuga na nodra gauna, ia ena vuku ni veivakadonui taumada ena maroro ni kedra e tukutuku. Ke a sega na nodra lomasoli, veivakabauti kei na dina ke a sega ni rawa na vakadidike oqo.

Au via cavuta talega na noqu vakavinavinaka vua na Minisita ni Vuli e Viti, Mr. Filipe Bole, na i vukevuke ni Vunivola Tudei ni Tabacakacaka ni Vuli vakacegu, Mr. Filipe Jitoko, kei Qasenivuli Joji Qaranivalu, ena tabana ni vakadidike ni Tabacakacaka ni Vuli (MoE), ena nodratou solia na nodratou veitokoni ena vakadidike oqo. Au via vakavinavinakataki ira talega na noqu e tokoni voleka ena nodra veivosaakitaka ka vakaraitaka rawa vei vei na nodra qasenivuli liu na veiva e baleta na noqu veiva, ni’u vulagi ga, ka’u vakataringo e so na taro dredit na kena e saqata. Au na sega sara ni guilecavi kemuni rawa. Na noqu vakavinavinaka cecekia talega vei kemuni kece sara na Qasenivuli Liu ena nomuni lomasoli ena kena dovali tu na nomuni koronivuli, nomuni veitokoni ena dikevi ni ulutaga bibi oqo ka tiki ni nomuni bula vakaivakarau. Na vakavinavinaka levu talega vei kemuni kece sara na maroro avu voli ena nomuni dui vale kei na loma ni bai ni koronivuli ena noqu moce, kana ka vakausivi e na noqu vakuvalu ena wai ni vanua, dina ga ni so e vica walega na auwa ka so tale e vica vata sara na siga.

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This research was approved by the Fiji Ministry of Education and Massey University Human Ethics Committee.

PEER REVIEW
This thesis was successfully defended (without emendations) on the 10th of May 2013 at Massey University's Turitea Campus, Manawatu, New Zealand. The intention to publish this thesis comprised part of the defence discussion with examiner feedback and their reports (Professor Lamont Lindstrom: Appendix R, Associate Prof. Kabini Sanga: Appendix S and Dr. Rochelle Stewart-Withers: Appendix T) influencing the final structure of this book. Additional thanks must go to the examination Convenor Dr. Nathan Matthews (Te Uru Maraurau, Massey University), my supervisors, Dr. Matt ‘Maciu’ Tomlinson and editorial guidance from Keri Trim (BCom, PGDipPub, PGDipEd). Therefore, this text is considered to have been peer reviewed.

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Glossary

'avā  Name for kava in Sāmoa and Tahiti. See yaqona.
'avā-ava  One of several names for kava in Tahiti. See yaqona.
'avā  Name for kava in Hawaii. See yaqona.
bachelor  See cauravou.
badge of honour  A colloquialism referring to kanikani (the skin condition that manifests as a result of high yaqona consumption). This term infers a sense of masculinity, and can indicate a person’s stature in being able to competitively consume vast quantities of yaqona, or simply indicates that a person has the ability to drink large amounts of the beverage (Aporosa, 2008:78-9). Also see kanikani.
bati  Literally meaning ‘warrior’, a traditional soldier of the chief.
Bantu beer  See kaffir.
Bauan Fijian  The dialect of those from the chiefly island of Bau, a term frequently and incorrectly used to mean the common/national dialect of Fiji. See vosa vakabau.
bete  Traditional priest.
betel  Also known as betelnut, buva and buai. This reddish-yellow fruit grows on the areca palm tree (Areca catechu) and is an indigenous substance of Papua New Guinea (PNG).
bilo  A cup made from a coconut shell. Called a shell in Vanuatu.
black-belt  See grog swiper.
bole  Literally meaning ‘to challenge’. The word has historical origins in challenging rituals performed between warriors prior to combat (Clunie, 1977:40). One of its uses in contemporary Fijian society is to describe playful challenging during yaqona sessions. Also see grog fighting.
bolei  Literally meaning ‘to be challenged’. See bole.
buai  See betel.
buli  Cowry shells attached to the magimagisau. Buli denotes ‘chiefliness’.
bush-beer  An alcohol brewed by from oranges Raratongan’s and used in a pseudo-traditional practice which carries with it many of the appearances of traditional kava use.
cauravou  Literally meaning ‘bachelor’, an unmarried male over 18 years old.
chemotype  The chemical composition of a plant.
cobo  Clapping as a mark of respect.
coca  The leaf of the Erythroxylum plant, chewed for centuries by the Indians of the Peruvian and Bolivian Andes (Cherry, 2002:59).
dabe  Literally meaning ‘sit’.
dari  Tanoa (kava bowl) made from lapita pottery.
din maaro  A Fiji Bāt word literally meaning ‘to relax, killing time, socialising’ (Prasad, 2009:171).
Diwali  Hindu festival of lights.
dokadoka  A person with an arrogant and/or condescending attitude.
drau ni kau  Literally meaning ‘sorcery, witchcraft’. Also see vakatevoro.
drug half-life  The amount of time it takes for the potency of a drug in the body to fall to half its strength (Julien, 2001:17).
dry isevusevu  The exclusion of the consumption of aqueous yaqona that typically follows the traditional presentation of waka (Aporosa, 2008:37).
elimination half-life  The time it takes for the potency of a drug to decrease by half in the bloodstream (Julien, 2001:19-20).
‘evava  One of several names for kava in Tahiti. See yaqona.
faikava  Kava consumption by Tongan commoners, or denotes purely recreational consumption.

1 This glossary contains a large number of vosa vakabau (common Fijian language) words that I know and use. In a small number of cases words were sourced from Capell (1991), A new Fijian dictionary.
Fijian Person of Indian decent formerly known as Fiji-Indian or Indo-Fijian (Government of Fiji, 2010).

Fiji Bät Also known as ‘Fiji Hindi’, the common/national Fijian dialect, comprising a blend of Indian Hindi, Tamil, Telugu and Malayalam and developed during the indenture period (Mugler, 2004:247).

gámada One of several names for kava in Papua New Guinean. See yaqona.

Girmitiyas The indenture period, 1879 and 1916, when over 60,000 Indian labourers were brought to Fiji (Mugler, 2004:247).

gonedau The traditional role of fisherman, belonging to the fisherman clan. Also be known as kai wai.

grog A colloquialism referring to aqueous yaqona, adapted from the grog (rum) ration given to the sailors who visited Fiji prior to colonization (Norton & Ruze, 1994:10; Geraghty, 1996).

grog-doped A colloquialism referring to yaqona intoxication (Aporosa, 2008:38). It is also used when referring to the lethargic effects of a yaqona hangover. Also see mateni, lomaloma ca.

grog fighting A colloquialism referring to competitive, non-aggressive yaqona drinking (Aporosa, 2008:69,82). Also see bole.

grog swiper A colloquialism referring to a person who habitually consumes large quantities of yaqona (Aporosa, 2008:22). Also known as a heavyweight or black-belt.

Gujarati The free migrants who entered Fiji after the indenture period to pursue business opportunities (Brison, 2011:232).

gunu Literally meaning ‘to drink’.


gunu taudua Solo yaqona consumption, believed to comprise an act of witchcraft. Also see vakatevoro.

heavyweight See grog swiper.

hot-stuff A colloquialism referring to alcohol.

ibe Mat woven from the voivoi plant.

ibou A fibrous strainer made from the branch of the vau; Hibiscus tree, and use for straining aqueous yaqona.

i cake Literally means ‘up’. At yaqona sessions often refers to ‘up in the chiefly position’.

‘ilo kava Kava consumption by Tongan nobility.

isevusevu The formal presentation of yaqona. i sevu literally means “first fruits, a libation of a small quantity of yaqona poured from the first bilo as an offering to the Vu [ancestral gods]” (Vunidilo, 2006:4).

itovo iTaukei culture and practice.

iTaukei “Replaces the word ‘Fijian’ or ‘indigenous’ or ‘indigenous Fijian’... when referring to the original and native settlers of Fiji.” (Government of Fiji, 2010).

kaffir A traditional beer made from corn and brewed by the South Africa Bantu people (Steinkraus, 1996:408). Also known as Bantu beer.

kahuna Traditional Hawaiian priest (Titcomb, 1948).

kailoma A person of mixed European iTaukei ancestry.

kaivalagi A visitor from overseas.

kai Viti A person/people of Fiji.

kanikani Also called kani, referring to kava dermopathy, a ichthyosis or dry scaly condition of the skin that results from excessive yaqona consumption (Norton, 1998:383). Also see badge of honor.

Kamohoali’i Hawaiian shark god (Kepler, 1998:8).

Karisito The Christian God. Also see Kalou Vu.

kastom Pigeon (Bislama) meaning custom (Young, 1995:61).

káu One of several names for kava in Papua New Guinean. See yaqona.

kava See yaqona.

kava circle See yaqona session.
**kerekere** Reciprocal system of exchange, traditional form of purchase and transaction.

**kavalactones** The active constituent in *yaqona* (*MediHerb*, 1994a:1-2).

**kawakawa** Also known as *Māori kava* and *kavakava* (*Macropiper excelsum*), an indigenous substance of enormous sacred significance to *Māori* (*Bock*, 2000:176-7).

**kéu** Papua New Guinean name for *kava*. See *yaqona*.

**kila na i yatu** Literally meaning ‘knowing ones place in the community’, an aspect of *vakaturaga*.

**komatua** *Māori* elder.

**koro** Literally meaning ‘village’.

**kosa** *Waka* (*yaqona* root) after being pounded in a *tabili*, or the ‘leftover’ *yaqona* once mixed into the aqueous beverage.

**kuma-kuma** A gourd made by *Māori* who boiled and hollowed out a marrow.

**kumete** Tongan *kava* bowl.

**lewena** The basal stump of the *yaqona* plant, considered second (quality) grade *yaqona* after *waka*.

**lomaloma ca** *Yaqona* hangover, refereeing to the post-consumptive bodily effects of laziness, lack of energy, decreased motivation, heightened impassivity, generalised carelessness and occasionally interrupted memory recall.

**lose** Literally means ‘to mix’, as in mix aqueous *yaqona*.

**lovo** Traditional ground oven.

**lua** Literally meaning ‘to vomit’.

**maca** Literally meaning ‘finish/finished’, or ‘drained’ when use in conjunction with a fully consumed *bilo* (*yaqona* cup).

**mada** A particle used to soften a request or a direction, or as part of seeking permission, similar to ‘please’.

**madua rarawa** Literally means ‘shame/hurt feelings’.

**magimagi** The plaited coconut fibre rope attached to the *matanitanoa* (front of the *kava* bowl). Also called *sau*.

**mana** Power of effect. See Footnote 21.

**manuia** Sāmoan term expressing ‘good fortune’. Often said prior to *kava* consumption (*Kallen*, 1982:42).

**Māori** The indigenous people of *Aotearoa* New Zealand.

**mataisau** Traditional carpenter.

**matanigasau** A formal apology accompanied by *yaqona*.

**matanivanua** Herald or spokesman for the chief (*Abramson*, 1999:270).

**matanitanoa** Literally meaning the ‘face of the *tanoa*’, the small triangular shaped piece of wood on a *tanoa* that faces the ‘high’/chiefly position during *yaqona* consumption.


**mateniti** Short for *mate ni yaqona*, meaning *yaqona* intoxication or drunkenness (*Hocart*, 1929:58). Also see *grog-doped*.

**meke** Traditional Fijian dance.

**mesini** An offering of *kava* made by warriors to deities prior to combat or competition in pre-colonial Tonga (*Gifford*, 1971:318).

**mix** See *lose*.

**myristicin** Chemical found in nutmeg and *kawakawa* capable of causing psychoactive effects (*Bock*, 2000:176-7).

**na batini tanoa** Literally meaning the ‘edge of the *tanoa*’ (*kava* bowl), denoting sitting around the *tanoa*. See *yaqona* session.

**nakamal** A designated area or structure for *kava* consumption in Vanuatu (*Lindstrom*, 1987:99).

**nampiloku** Name for *kava* in northern Vanuatu. See *yaqona*.

**nekava** Name for *kava* in southern Vanuatu. See *yaqona*.  

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*XIX*
**Pasifika**  Refers to both the people of the Pacific islands and their “unique cultural perspectives and beliefs embodied in the values, customs, rituals, dance, song, language and cultural expressions” (CreativeNZ, 2012:n/a).

**Pasifikan**  Term coined by Massey University’s *Pasifika* division, *Pasifika@Massey*, and refers to a person/people of Pacific origin.

**piala**  A small enamel bowl used by Fijians to consume *yaqona*, similar to a *bilo*. Also spelt *pyala*.

**pyala**  See *piala*.

**qaciqacia**  Literally meaning ‘to show off’.

**qaravi tavi**  Fulfilling obligations, an aspect of *vakaturaga*.

**qito vakaViti**  Traditional Fijian games.

**qwua**  Solomon Islands name for *kava*. See *yaqona*.

**Ratu**  Honorable title of rank and used before names of males who are chiefs. Female equivalent is *Adi*.

**raupo**  Also called bulrush (*Typha angustifolia*), a plant commonly used by *Māori* for weaving.

**rihumae**  A Solomon Islands ceremony of remembrance held approximately six months following a death (Fox, 1924:216-17).

**rongoa Māori**  Traditional *Māori* medicine (McGowan, 2009).

**saka**  Literally meaning “sir”.

**sakau**  Name for *kava* in Phonpei. See *yaqona*.

**sau**  See *magimagi* (as used in this study – can also refer to ‘value’ or ‘power’).

**sauturaga**  Executives to the chief, the clan that appoints the chief.

**seka**  Name for *kava* in Kosrae. See *yaqona*.

**shell**  Term used in Vanuatu for *kava* cup. See *bilo*.

**sosoko**  In reference to *yaqona* means concentrated strength, ‘thick mix’.

**sova yaqona**  Literally meaning ‘to pour *yaqona*’. The ‘pouring’ is a libation to give efficacy to the malevolent spirit/s. Also see *vakatevoro*.

**spoiling**  A colloquialism for joking or teasing. Also see *veivali*.

**steady-state concentration**  The achievement of a predicted level of drug accumulation in the body following regular doses (Julien, 2001:19-20).

**swiper**  See *grog swiper*.

**tabua**  Whales tooth as used in ceremonial exchange.

**taki**  Literally meaning ‘serve’ when used in connection with *yaqona*.

**talanoa**  The meeting together of two or more people where information is shared.

**Talatala**  A consecrated church minister, Reverend.

**tanoa**  Wooden bowl for mixing *yaqona*, serving *yaqona* from.

**tanoa poi**  *Tanoa/kava* bowl made from a plastic fishing float.

**tatau**  Traditional Sāmoan tattooing.

**taumafa kava**  Ceremonial *kava*, or *kava* use in Tonga involving the Tongan Royal Family.

**tauvū**  A political and social linkage between villages and regions based on traditional religious observance. Those who make up these relational connections frequently refer to each other as ‘*Tau*’, and their relationships are often “marked by mutual assistance, license, and joking” (Tomlinson, 2002:39).

**tavale**  Cross-cousin.

**tigwa**  One of several names for *kava* in Papua New Guinean. See *yaqona*.

**tikina**  Literally meaning ‘district’.

**Tui**  A king, person holding a chiefly title.

**tuki**  Literally meaning ‘to pound’, as in crush, when used in relation to *yaqona*.

**tuki na kosa**  Literally meaning ‘to pound or re-pound *yaqona*’ allowing it to be used again to mix
aqueous beverage, although subsequent use reduces the potency (Tomlinson, 2004:657).

turaga  A chief, a respectable term used to address a male or group of males.

‘umeke  Sāmoan ‘ava (kava) bowl.

vakatevoro  Literally meaning ‘witchcraft’. This is a spiritual mechanism used to bring about a curse and often involves the use of yaqona (Katz, 1993:24). Also see drau ni kau, gunu taudua and sova yaqona.

vakamarama  See vakaturaga.

vakamavoataka  See madua rarawa.

vakarokoroko  Literally meaning ‘humility’, an aspect of vakaturaga.

vakaturaga  “The central [Fijian] ethos” and value system that includes, behaving in a chiefly manner irrespective of one’s status, respect, knowing ones place in the community, fulfilling obligations, sharing and caring, and a quiet disposition (Ravuvu, 1987:18-19,319-320). Vakaturaga refers to the observance and practice of this ideal by the male gender: turaga meaning chief/male position holder. Vakamarama is the female equivalent: marama equating to the feminine version of turaga.

vakavinavinavinaka  Literally meaning ‘to show appreciation’.

vanua  Literally meaning ‘the land, its people and traditions’.

Vanua Research  A research methodology developed by Nabobo-Baba (2006:24-36) and employed when the research focus has implications for the vanua.

veidokai  Literally meaning ‘respect’, an aspect of vakaturaga.

veikauwaitaki  Literally meaning ‘caring’, an aspect of vakaturaga.

veitabani  Insinuating ‘retaliation’. When used in reference to relational connections, indicates former enemies. In the contemporary culture the relationship is characterised with gaming, trickery, joking, competition, bole, and grog fighting, although this never descends into aggression or confrontation (Tomlinson 2006:13).

veitalanoa  Literally meaning ‘to discuss, discussion’. See talanoa.

veivosoti  Literally meaning ‘forgiveness’, an aspect of vakaturaga.

veivukei  Literally meaning ‘helpfulness’, an aspect of vakaturaga.

veiwali  Literally meaning joking or teasing. Also see ‘spoiling’.

veiwasei  Literally meaning ‘sharing’, an aspect of vakaturaga.

vesi  Fijian hardwood used to make tanoa.

voivoi  Leaves of the Pandanus plant used to weave ibe (mats).

vosa vakabau  Literally meaning ‘generalized’ iTaukei language, the common/national dialect. This is often incorrectly referred to as ‘Bauan Fijian’, which gives the inference that the national dialect originated from the Fijian chiefly island of Bau (Geraghty, 2007:385) – note uncapitalised letter ’b’.

Vu  Ancestral gods, ancestors and spirits (Katz, 1993:20-21).

waka  The prized root crop of the yaqona plant which contain the greatest levels of kavalactones.

waka kari  Yaqona root with skin scrapped off, removed.

wainivanua  See yaqona.

yalo malua  Literally meaning ‘a quiet demeanor’, an aspect of vakaturaga.

yaqona  A plant, botanically named Piper methysticum (Singh & Blumenthal, 1997:36), and more commonly known as kava in the wider Pacific. Yaqona is considered sacred and can be mixed into an intoxicating beverage creating Fijian’s national indigenous substance. Yaqona is also commonly referred to as wainivanua, literally meaning ‘water of the’ (waini) people, land and culture (vanua) (Tomlinson, 2009:109).

yaqona circle  See yaqona session.

yaqona session  Also referred to as a yaqona circle, “kava circle” (Lindstrom, 2004:17; Tora, 1986:30) or na batini tanoa. This is a gathering of two or more persons where yaqona is consumed. This reference is used irrespective of the time duration, or whether the consumption is done for formal or informal reasons.

yavusa  Genealogically, largest kinship group in Fiji.
LIST OF ABBREVIATIONS

FNNS  Fiji National Nutrition Survey
GDP   Gross National Product
HoD   Head of Department
IMF   International Monetary Fund
LQA   Labour Quality Index
mgs   milligrams
MoE   Fijian Ministry of Education
MUHEC Massey University Human Ethics Committee
NGO   Non-Governmental Organization
NLTO  Native Land Trust Ordinance
PMS   Performance Management System
PNG   Papua New Guinea
PSC   Public Service Commission
RPEIPP Rethinking Pacific Education Initiative for and by Pacific Peoples
SEO   Senior Education Officer
SPSS  Statistical Package for the Social Sciences
UNESCO United Nations Educational, Scientific and Cultural Organization
US    United States (of America)
USP   University of the South Pacific
VAT   Value Added Tax
WAIS-III Wechsler Intelligence Scale 3rd Edition
WB    World Bank
WHO   World Health Organisation
CHAPTER 1
THE TEACHER WHO COULDN’T BE BOtherED

It was 2005, first period in the morning, and I was standing before 21 eagerly staring faces, fourth formers (year 10) at a school in rural Fiji, as their temporary geography teacher. The students were keen to hear from someone who had actually been to their country of study, New Zealand, unlike their usual teacher who had only read about the place. I stood there mostly staring, caught up in my own dream-world. Although Fiji has embraced education as a key input to their national development and economic growth strategy, with teachers playing a critical role in the delivery of quality education to support that goal, such thoughts and responsibilities were low down in my mind. I had more simple issues to deal with.

And so I stood there just staring. I probably could have continued like that all period. None of the students would have said anything. They wouldn’t have become agitated or even talked to their neighbour. This is because they had grown up in an isolated, highly traditional environment, where values of respect and hierarchy had not yet been influenced by teen role-models unafraid to openly voice their opinions, let alone challenge their teacher for staring blankly at them.

While I stood there I could clearly feel that something was wrong with me. I could distinguish the students’ features and recognize most by name. However my vision was slightly distorted, lacking focus especially in the peripheral regions. I could stand ok although that felt slightly surreal, like I was in a semi dream-state. When I moved, my reflexes and motor-skills felt dulled, as though I was walking through water. I could feel a slight tingle in my nerves, kind of like they were clogged; or maybe just fighting to pass information. I could speak if I had to, capable of retrieving simple information like my name, address and my wife’s date of birth, but anything deeper was too much of a chore. Basically I couldn’t be bothered struggling or trying to push through the foggy haze.

I didn’t feel euphoric or over emotional; not extra loving or alternatively angry, just nonchalant. Then occasionally I felt as though something had irritated me; just a fleeting sensation, a slight surge of frustration, although this would quickly dissipate. In my case this never heightened to anger like I had seen with others in my condition. I recall thinking, ‘if I had only prepared some sort of lesson plan, even a simple guide, it would be enough to get me started… I’m sooo tired! Bed, just for ten minutes; then I’d be ok.’ But at the same time I couldn’t be bothered walking the sixty odd meters to the three roomed house I shared with the school Chaplin, his wife, their two sons and two relatives. I wasn’t hungry either, but not because I felt nauseous. I could eat if I had to, but like teaching and walking, I couldn’t really be bothered, which is generally not like me because I’m a healthy eater.

Throughout my foggy self-examination the students continued to watch and wait. It wasn’t really that surprising to them, they knew the cause of my problem just as I did. I had experienced acute lomaloma ca many times in the past and would do so on innumerable occasions in the future. Both the students and I also knew that I would ‘pick-up’ around lunchtime, just as long as I didn’t return to the ‘source’ of lomaloma ca before then.

The source of this condition that resulted in lomaloma ca was the previous night’s activities, just as it had been the three nights prior to that. I, together with a group of teachers, friends and several of my Fijian relatives, had sat cross-legged for approximately six hours in the school hall. In the center of our meeting area had been a large tanoa (wooden kava bowl). At designated intervals we were all served a bilo (coconut shell cup) from this traditional receptacle which had contained the indigenous soporific and sedative-inducing beverage yaqona (kava). I later calculated that on that previous night I had consumed approximately 30 bilos, or around three and half liters of the beverage.
This drinking session was not unusual. Yaqona use is a central aspect of my Fijian culture and its related practices, and a daily occurrence in both rural and urban Fiji. In my case I usually tried to finish drinking yaqona before midnight, especially if I had to teach or work the following day. This intention though could be difficult to adhere to for two reasons. Firstly, cultural obligation connected to the use of this indigenous substance prevents consumers from simply leaving at will. Therefore sessions can easily run into the small hours. Secondly, yaqona manifests relaxing effects, masking time and urgency with ideas that ‘tomorrow will look after itself’.... Then, following a peaceful sleep, you stir, not quite fully awake. In your unorganised haze you dress, and together with your peers - some who have been drinking with you only a few hours before - you walk to the classroom, tasked with the responsibility of imparting quality education to your students, young minds who in a few years will be relied upon to aid the country’s national development goals and increase economic growth.

People often say, “it’s easy, just stop teachers from drinking yaqona on nights before they teach”. But some things just aren’t that simple...

INTRODUCTION
There are more than 11,000 plant species currently used for medicinal purposes, with many having their origins in “highly ritualized and ceremonial context[s]” (Beyer, 2007:1; also see Zhou, 2006). Garibaldi & Turner (2004:5) explain that plants and their derivatives that shape cultural identity through spiritual, dietary, medicinal and/or material use are termed “cultural keystone species”. Yaqona, more commonly known throughout Pasifika2 as kava, is undoubtedly Fiji’s cultural keystone species (Steinmetz, 1960:3). The plant, together with the relaxant soporic substance derived from it, continues to play a critical keystone role in the cultural life-ways in Fiji just as it has done for thousands of years (Aporosa, 2011b). Early colonial policy was instrumental in the continuance of culture in Fiji (Tavola, 1991:152-3; White, 2001:310-11) together with the ongoing use of yaqona. This is interesting, considering that ‘modernist’ thinking has been a key influence to Fiji’s national development agenda. In most other settings the modernist paradigm overtly sought the elimination of “primitive” cultural practices (including indigenous substance use) in favour of “right values” aimed at individuality, capitalist modernity and “economic initiative” (Rostow, 1956:27; also see Durkheim & Pickering, 1975:107-8; Escobar, 1995:43). This led, in many instances, to indigenous substances being singled out and banned in cases where their use was deemed to interfere with or inhibit productivity (see Chapters 2 and 3).

Modernist thinking has also been a key driving force behind education, an input argued to be a “crucial feature” (Webster, 1990:98) to the development of a “healthy, independent, and economically surviving country” (St. Clair Skeet, 2007:31-2). Today education plays a dominant role in Fiji’s national development agenda (Subramani, 2000:1), with the Fijian Ministry of Education (MoE) seeking greater educational effectiveness to aid “the total socio-economic and political development of the country” (Williams, 2000:179). Therefore, in light of my opening narrative, which explained the impacts of yaqona on my ability to teach, colonial policy in Fiji could be criticised for failing to fully apply modernist principals and therefore eliminate cultural practices such as the use of yaqona. What is more interesting though is that it has only been over the past 15 years that concerns regarding yaqona use and impacts upon education have been formally raised.

2 In this study Pasifika refers to both the people of the Pacific Islands and their “unique cultural perspectives and beliefs embodied in the values, customs, rituals, dance, song, language and cultural expressions” (CreativeNZ, 2012:n/a). Additionally, this can be alternated with the word Pasifikan which refers solely to the Pasifika peoples.
3 For the purpose of this study modernity and modernist thinking draws in part on Peet & Hartwick’s (2009:1) definition in which they explain that “modernity is that time in Western history when rationality supposed it could change the world for the better... [and includes] modern advances in science and technology.” Therefore this research broadly considers modernity as having commenced with the industrial revolution and the focus on individuality, capitalist modernity and economic progress (as discussed above), a time marker that stands in opposition to ‘traditional’, representing the former pre-industrial Westernised agrarian lifeway or the non-industrialised communal subsistence living systems of the countries and nations who were subsequently colonised by the Western industrialised countries.
In 2000 the MoE completed a “comprehensive review of Fiji’s education system” (Pene, Tavola, & Croghan, 2000:i). This included discussion on a variety of factors believed to both aid and hinder “Fijian Academic Achievement”, discussion which included “cultural” values (Williams, 2000:186-8). On one hand, culture was accused of displacing educational importance which led to academic under-achievement. However the report also acknowledged that culture and its associated values play an important role in educational attainment. The association between culture and academic achievement is not unique to the Fijian setting. Academics have argued this link for some time (Oetting & Beauvais, 1990-91:673-4; LaFromboise, Coleman & Gerton 1993:403-4; Oetting, 1993:36; Shaffer & Kipp 2010:407-8) with Teasdale & Teasdale (1992a:1), suggesting that “the loss of culture is at the heart of our educational and social problems”. These conflicting reports regarding culture and educational attainment prompted the MoE to request further research on the “relevance of Fijian values and... culture to the current education system” (Williams, 2000:188). This thesis is, in part, a response to that request.

WHAT THIS STUDY WILL DO

This study will focus on the relationship between two specific elements identified within the MoE’s review as having a negative impact on education. These are “yaqona drinking” and “bad teaching” (Williams, 2000:187).

In their report, the MoE categorised “yaqona drinking” under the broader heading of “Cultural” factors. While this study will also consider some of the wider cultural aspects, these will specifically be those related to yaqona use and practice. In the case of “bad teaching”, the MoE classified this under “Institutional” factors. This study will enlarge on this and reconceptualise “bad teaching” from the broader perspective of quality education delivery. This complies with wider discussion in the MoE review, which suggested “quality of teaching” (Williams, 2000:215) could be disrupted by a variety of aspects which included cultural factors (such as yaqona drinking), which in turn had led to “bad teaching”. This study will not however solely consider the negative perspectives, but will also investigate positive aspects of yaqona and its related culture to quality education delivery.

Academics have shown quality education delivery is foundational to academic achievement (Fraser, 2008:1; Hall, 2008:221,225; Sewell & St. George, 2008:204). As such, successful education, which is “deemed the strongest driving force of development” (St. Clair Skeet, 2007:31; also see Voigt-Graf, 2003:163), has a critical role in Fiji’s national development agenda (see Chapter 4). For the purpose of this study I regard quality education delivery as an invention of modernity (as defined in footnote 3) utilised to assist the achievement of national development. Alternatively, yaqona—Fiji’s “cultural keystone species” and its related use systems—is deemed to fall under the rubric of ‘traditional’, with its foundations in several thousand years of Pasifika tradition (see Chapters 3 and 5).

Throughout this thesis, these two elements, yaqona use and quality education delivery, will be discussed as representing a tension between traditional Fijian cultural practice and the contemporary pursuit of development informed by education. The MoE allude to the existence of this traditional/contemporary tension in their 2000 review. They stated, “Yaqona drinking is important in ceremonial Fijian culture and social gatherings” but then followed this statement with concern that “excessive consumption of yaqona is becoming a problem... it substantially inhibits performance of duties in non-traditional professional environments, including the civil service and teaching” (Tavola, 2000:169, emphasis added). In this comment the MoE reflect the complexities discussed in my opening narrative, where I briefly mentioned the central role yaqona plays in culture, together with the related aspects of obligation. That narrative also exemplifies the tension that has resulted from the use of yaqona and attempting to teach following usage of the traditional substance. Finally, my narrative suggested that remedying this tension was not “simple”, an aspect also acknowledged by the MoE, who recognise the cultural importance of yaqona while simultaneously reporting concerns regarding its impact on education.

This is both an important and complex topic, one that could be argued to result in a no-win situation. For instance, if the ‘culture of yaqona’, or the traditional practices that inform the use of this “cultural keystone species”, were to be given priority over education, this would potentially hamper quality education delivery, promote academic under-achievement and ultimately inhibit national development. Alternatively, if yaqona was to be...
nationally prohibited or banned within the educational arena for the explicit purpose of preventing impacts on education delivery in order to facilitate academic achievement and concomitantly national development, this would subjugate the cultural expression and identity which academics have argued is vital to academic achievement and successful development (UNESCO, 1995:20; Eade, 2002:x-xi; Schech & Haggis, 2008:50). This again illustrates the complexities associated with this traditional/contemporary tension.

Additionally, this apparent no-win situation serves as an example of why the MoE requested further research on the “relevance of Fijian values and... culture to the current education system”. However, it was not until several years later that the specific theme of yaqona and education was first examined. That inquiry comprised my 2008 Master’s study. According to a senior Fiji-based academic, previous attempts had been considered although had met with opposition from a number of quarters, including the MoE. The informant stated that such an investigation was deemed “contentious” as it had the potential to present yaqona and its users in a negative light, a finding that was considered inappropriate due to yaqona’s cultural keystone position (cited in Aporosa, 2008:22). This again highlights the complexities associated with investigating this traditional/contemporary tension, intricacies that have implications for both culture and development in Fiji. My Master’s study utilised Vanua Research (Nabobo-Baba, 2006; see Chapter 6), an indigenous Fijian methodological framework and focused on a rural school. The MoE received a copy of my study in 2008. This resulted in a request for a nationwide study investigating the themes of this tension from the perspective of all teaching environments in Fiji (see p.88). The present study is a response to that request and as stated, focuses specifically on the themes of yaqona and education delivery. Therefore this investigation is not intended to solve academic under-achievement in Fiji, seek cause-and-effect conclusions and outcomes or provide a wide-sweeping investigation of all of the factors identified by the MoE in their 2000 review. Rather, it focuses solely on the tension that appears to have resulted between yaqona (and the related yaqona culture) and education delivery in Fiji. In the next section I will introduce the theoretical rationale that supports this approach.

UNTANGLING THE ‘TENSION’

Key to investigating the traditional/contemporary tension which focuses on yaqona and education is again the indigenous Fijian research framework of Vanua Research, which resonates with the evolving ideology of post-development. Some proponents of post-development argue that all introduced development paradigms are little more than hegemonic systems aimed at subjugating local culture and traditional knowledge systems through power inequities and control structures (Peet & Hartwick, 2009:226-7). They suggest effective development is more likely to occur when initiated and theorised through local cultural systems (Escobar, 1995a:98; Horn, 2000:34; McEwan, 2009:229) with external processes utilised and managed solely at the discretion and under the control of the local (Radcliffe, 2006:17-8). Essentially post-development is concerned with local-level empowerment, self-determination and decision-making, aspects that counter hegemony and power inequities argued to be prevalent within the conventional development agenda (Anacleti, 2002:168; Kakimow, 2008:321; Peet & Hartwick, 2009:197-8). Guided by a Vanua Research framework and post-development theory, this study will provide research on the “relevance of [an aspect of] Fijian values and... culture to the current education system” to assist local-level decision making processes. This in turn supports a primary aim of post-development, namely self-determination and empowerment by emphasising local systems, knowledge and priorities.

Although this thesis focuses on yaqona and education from the Fijian context, it nevertheless has wider application. Yaqona, kava, ‘ava, ‘awa, sakau, tigwa, kava qwua, kèu, kāu, gámada, namaloku and nekava are used widely across the Pacific from Papua New Guinea (PNG) to Hawaii. This includes New Zealand, a place where some of my Pasifikan teacher friends regularly consume large quantities of the indigenous substance on nights prior to work (personal observation, 2000-2012). Additionally, this study offers insights into the use of culturally embedded substances from a post-development perspective which, to date, has been silent on this theme. This is surprising considering the importance post-development places on culture and local systems. While I will explain this fully in Chapter 3, modernist thinking sought the complete eradication of, or situational bans on, indigenous substances which were viewed a hindrance to modernist pursuits and believed to
negatively impact productivity and socio-cultural stability. Conversely, alternative development practitioners recognise the usefulness of indigenous knowledge and substances in facilitating aspects of Western-initiated and -directed development processes (Slikkerveer & Slikkerveer, 1995:25-6; McEwan, 2009:198). Similarly, the value of local herbal medicines have also been acknowledged in “World Bank-promulgated neoliberal health care reform[s]” (Winkelman, 2009:323).

Research Questions
The following research questions will be used to aid in untangle the traditional/contemporary tension:
1. What are the yaqona consumption habits of Fijian teachers, and what role does culture play in this?
2. Does yaqona impact teacher cognition, sickness and absenteeism and if so, what effect does this have on education delivery?
3. Does yaqona play other positive roles in the school environment and if so, what action should be taken regarding teacher yaqona use, considering that yaqona is central to culture?

THE LANGUAGE OF THE THESIS

Kava, Yaqona and Kava
The terms yaqona and kava, the latter both italicised and un-italicised, are used throughout this thesis. Kava, in most cases, refers to the plant, indigenous substance or pharmacological derivative outside of the Fijian setting. Yaqona refers to kava within the Fijian environment, although is occasionally substituted with the word kava and/or grog (the Fijian colloquialism for yaqona) by some research participants and commentators. Kava (un-italicised) tends to be the predominant style used in literature as opposed to kava or yaqona (italicised). When quotes have been drawn from literature, kava/kava will be presented in its original format. Further, yaqona, kava or the other traditional preparations discussed in this study will not be referred to as ‘drugs’. It is believed that this terminology gives a negative connotation and is often associated with ‘drug abuse’ (Klein, 2013:7). This thesis focuses on yaqona and, to a lesser extent, four other indigenous substances and their use primarily within their cultural settings. Durrant & Thakker (2003:52) argued use patterns of these substances do not equate to contemporary understandings of drug abuse, a theme I will expand on in Chapter 3.

Fijian, iTaukei and Fijian
Ethnic identifiers will comply with the 2010 Fiji Public Service Commission memo which “effectively replaces the word ‘Fijian’ or ‘indigenous’ or ‘indigenous Fijian’, with the word ‘iTaukei... when referring to the original and native settlers of Fiji.” (Government of Fiji, 2010, see Appendix A). Although the decree stipulates that all other citizens of Fiji will now be called ‘Fijians’, the italicised form of Fijian used in this study will indicate those Fijians of Indian decent formerly known as Fiji-Indians or Indo-Fijians. The non-italicised word Fijian will be used in the generic, referring to all ethnicities collectively whether iTaukei, Fijians or others.

iTaukei and Fijian Linguistics
In this study the iTaukei language is termed vosa vakabau (meaning ‘generalised’ iTaukei) as opposed to ‘Bauan Fijian’ which gives the inference that the national dialect originated from the Fijian chiefly island of Bau (Geraghty, 2007:385). Fijian is termed Fiji Bät instead of ‘Fiji Hindi’, which comprises a blend of Indian Hindi, Tamil, Teluga and Malayalam that developed during the girmitiyas, an indenture period when over 60,000 Indian labourers were brought to Fiji between 1879 and 1916 (Mugler, 2004:247). This study relies heavily on observations and comments by those working at the education coal-face in Fiji. For most, English is their second language. Comments have been presented as stated with grammatical errors and/or the use of mixed English, vosa vakabau and/or Fiji Bät retained. Interpretation is included where necessary.
Vosa vakabau is frequently used throughout this study. To aid pronunciation, standard orthography as formulated by the early missionary-linguist David Cargill (Schütz, 2003:3-8) is as follows:

- \( b \), which represents \( mb \), as in member.
- \( d \), which represents \( nd \), as in Monday.
- \( g \), which represents \( ng+g \), as in finger.
- \( dr \), which represents \( ndr \), as in Andrew.
- \( g \), which represents \( ng \), as in singer.
- \( c \), which represents \( th \), as in father.

Yaqona is the most common vosa vakabau word used throughout this dissertation, but one also commonly mispronounced. This “cultural keystone species” and beverage is pronounced young (as in youthful)-on-a, said with a clipped and almost silent y.

OUTLINE OF THE THESIS

The following chapter is the first of four themed literature review sections. It discusses development theory and culture. It commences by reviewing modernisation theory and explains its foundations particularly in regard to its focus on productivity and ideologies regarding culture and its related practices. I will then summarise alternative development and neo-liberalism—the latest ideology to dominate contemporary development thought. In this study modernisation, alternative development and neo-liberalism are often referred to collectively as the dominant development approaches (Brohman, 1995:126; Simon, 2008:87; Appleby, 2010:25). This discussion leads to a detailed description of post-development, the core theoretical influence to this study. While post-development is pioneering new directions in development thinking, thus far post-development writers have been silent concerning indigenous substances. As will be explained, post-development aligns with the Vanua Research framework which is used in this research to examine whether it is possible to “tap… indigenous traditions… as a resource… to solve contemporary problems caused by modernization and development” (Schech & Haggis, 2000:124). This is the core theme of this thesis.

Chapter 3 draws on a large volume of literature to discuss the cultural importance and physiological effects associated with five indigenous substances. Discussion of each of these traditional preparations concludes with comment on how modernists thinkers and development practitioners throughout history have viewed their use. In most cases this has been as a threat to modernity, civility, productivity and industrialised capitalism (Coomber & South, 2004:18). In the closing section of this chapter I discuss control measures on indigenous substances and then draw on themes from Chapter 2, citing the importance of culture and indigenous substances to cultural identity and the achievement of development. This chapter reiterates my earlier comment – to suggest that traditional users simply forgo their indigenous substances is just not “that simple”.

The theme of education as a “critical feature” to achieving modernisation-styled development (Webster, 1990:98) opens the discussion in Chapter 4. This is followed by a debate on the possibilities and structure of a post-development informed education system, one that would be highly reliant on and informed by culture and local processes. The development of education in Fiji is then detailed. This has conspired in creating academic disparity between iTaukei and Fijians, with iTaukei under-achievement being accused of threatening the “total socio-economic and political development of the country” (Williams, 2000:179). Critical to this chapter is the MoE’s 2000 Learning Together report, which suggests a number of factors believed to influence this under-achievement. Two factors are singled out: “bad teaching” and yagona. By discussing these two opposing elements—one traditional and the other an aspect related to contemporary development—the complexity of the traditional/contemporary tension is delineated, while focusing the direction of the study.

Chapter 5, which examines yagona together with its use within the educational arena, adds to the concerns of the MoE by citing media reports critical that the over-consumption of this indigenous substance is having a negative impact on productivity in Fiji. Although such reports are presented as fact, they are actually
unsubstantiated assertions as no research has been completed on the specific link between productivity and yaqona use. The nearest study to this theme is my 2008 Master’s research, which focused on rural yaqona-consuming teachers and impacts on education delivery. This has necessitated that I draw on my previous research to aid commentary in this chapter. This will include yaqona consumption volumes and durations by ethnicity, intoxication and lomaloma ca (yaqona hangover), factors believed to promote and increase drinking levels, and, most importantly, the significance of yaqona to identity, form and cultural construction. Finally, the major threads from the preceding chapters are drawn together with the elements of this section to reassert the uniqueness and complexity of the traditional/contemporary tension.

The research methodology used to investigate the three research questions is presented in Chapter 6. Critical to this is a discussion of Vanua Research and its alignment with post-development which influenced the ethics and methods used throughout the field research. My role and its challenges as both an ‘insider’ and ‘outsider’ are presented. This is followed by the reasoning for, and application of, the psychometric tests as part of the research methodology. I argue that these quantitative tests bring new understandings to yaqona use and effects while showing how such tests can complement Vanua Research and post-development.

Chapter 7 is the first of three findings and discussion chapters and draws on data obtained during the field research to answer the first research question. This investigates Fijian teacher yaqona consumption habits and questions the role that culture play in this drinking. In presenting yaqona consumption habits obtained during the field research, several misconceptions by iTaukei teachers regarding the drinking of their indigenous substance by their Fijian counterparts are uncovered. Further, this leads to comment on the role yaqona plays in the cultural identity of both iTaukei and Fijians. The chapter finishes by discussing consumption by gender, and yaqona’s unique function in facilitating ethnic unity among teachers.

The focus of Chapter 8 is the second research question which investigates the impact of yaqona consumption on teacher cognition, sickness and absenteeism, and asks what effect this has on education delivery. Although the psychometric test results, together with the ethnographic reports, suggest heavy yaqona use contributes to cognitive impairment, sickness and absenteeism, I briefly draw on cultural and academic themes from Chapter 2 and 4 to again illustrate the complexity of this issue. This acts as an introduction to the final findings and discussion chapter, which considers alternatives to the predominantly negative outcomes discussed here.

Chapter 9 commences by briefly summarising the earlier themes and findings to restate the complexities of the traditional/contemporary tension. It then investigates whether yaqona plays other positive roles – over-and-above aiding academic achievement through notions of self worth based on cultural identity – in the school environment and what action should be taken regarding teacher yaqona use. New understandings are presented from the ethnographic data that suggests education in Fiji would suffer with the removal of yaqona from the school campus. Additionally, local reports concerning yaqona use and its importance to cultural systems indicate that simplistic prescriptions such as bans and prohibition become difficult to imagine. The chapter concludes with a suggestion for the way ahead, an option influenced by post-development thinking.

The final chapter restates the influences that led to this study followed by the aims and findings. These summarise the main points of the three research questions before defining the contributions this study has made. Further areas for research are suggested followed by a number of concluding statements. These highlight what is at stake for the people of Fiji should they pursue development based solely on a Eurocentric model.
INTRODUCTION
The point of this chapter is to discuss development theory as it relates to culture in order to enable a theoretical foundation for the study proper. This chapter commences by discussing modernisation theory in regards to productivity, culture and indigenous substances. The changing ideologies in development thought, from modernisation to neo-liberalism and finally post-development, is then explained. This culminates in a discussion on the virtues and short-coming of post-development, an evolving ideology that will be practically applied to the latter investigative portions of this study.

CULTURE AND THE THEORY OF MODERNISATION
Although modernisation was not conceptualised until the 1950s and 1960s, its foundations lay in early “Enlightenment notions… of the modern… improvement of human existence” (Peet & Hartwick, 2009:2-3) and a collection of ideologies and capitalist processes utilised over the previous 150 years as part of the industrialisation of Europe (McMichael, 2000:296; Nederveen Pieterse, 2010:5). The theory postulated that if these same principles (enlightened modernity, industrialisation, capitalism, education) were linearly applied, all societies could gain a state of development that reflected Western systems, standards and ideals (Webster, 1990:42-3; Nederveen Pieterse, 2010:64). Therefore, undeveloped societies, often referred to during the colonial era as “lower [and] primitive” (Durkheim & Pickering, 1975:107), child-like (Nederveen Pieterse, 1992:153), “tribal” (Hall, 1992:10), “inferior” (Firth, 1997:262) and “traditional” (Webster, 1990:44), needed only follow the modernisation process and capitalist modernity that was within their grasp (Hall, 1992:9-10; Schech & Haggis, 2000:11,30). Modernisation theorists saw ‘primitive’ thinking as an impediment to development (Van der Grijp, 2004:22,188).

In order to gain the utopian state of ‘developed’, a change was prescribed away from the “primitive” ideologies of the “lower societies” (Durkheim & Pickering, 1975:107-8). Cultural confinement, reinforced by a collectivist mentality and spirituality based on “crude myths”, was argued to limit individuality and “economic initiative” (Rostow, 1956:27), and therefore inhibited the implementation of the modernisation processes which led to the developed state. They charged that a change in this primitive thinking would open the way for undeveloped societies to adopt “‘right’ values, namely those held by the white minority or… the cultivated European” (Escobar, 1995:43; Nederveen Pieterse, 2010:16). Van der Grijp (2004:22,188) puts this plainly, stating that “Within the modernization perspective, ‘traditional’ culture was seen as an impediment for development”. He added, “In the Canberra Agreement of 1944 Australia and New Zealand had proclaimed ‘to encourage the native peoples of the South Pacific to assimilate the benefits of the… more advanced people’” (p.20). Because culture is strongly influenced by internal values, practices and belief systems (Bocock, 1992:232; Rosman & Rubel, 1995:5-6), early modernisation informants were, in effect, seeking the eradication of culture which often includes indigenous substances. As I will explain, culture and indigenous substances frequently go hand-in-hand.

An example of early modernisation influence on culture can be seen within the tenants of the *The Tohunga Suppression Act*. This regulation, enacted in *Aotearoa* New Zealand in 1907, sought to encourage Māori to forsake their religious practices and healing systems. This was driven by the belief that traditional systems together with indigenous substances did little more than reinforce superstitious gullibility (Lange, 1999:242,247,249-250,281-2). The removal of these then would lead the indigenous peoples of *Aotearoa* toward modern enlightenment. It could be argued that this modernisation approach, enforced through *The Tohunga Suppression Act*, was highly successful as its intended purpose was mostly realised. The *Act* resulted in the extinction of some traditional substances, the almost complete eradication of *kawakawa*, and the loss of a vast amount of traditional Māori knowledge (see p.31; Durie, 2003:51,71). Loss of traditional knowledge was a common occurrence during the period of modernisation (Veitayaki, 1995:104; Stedman-Edwards, 2000:18; Soselisa, 2007:143).
Although a principal goal of modernisation was the elimination of traditional belief systems which often included traditional substances, this aim could also be modified and selectively manipulated if the colonial agents believed they could gain financially from a particular traditional system or practice. For example Courtwright (2001:9) stated that in some regions, indigenous substances were selectively eliminated. Traditional preparations that had value as a commodity, such as opium, certain fermented beverages, cannabis and tobacco, were commercialised by the colonials for monetary gain with the indigenous owner rarely reaping any benefits (Courtwright, 2001:9,30). Alternatively, Szasz (2003:125) commented that a number of early European medical practitioners deliberately influenced colonial administrators to legislate against traditional healing systems, or alternatively discredited them, if it meant that the indigenous population would seek out and therefore pay for colonial medical services.

Similarly, indigenous substance use would be encouraged if they were deemed advantageous to developmental process. Shaw (2002:48,122) stated that the use of traditional preparations which enhance “productivity or counteract unfavorable effects from work” were often tolerated or overlooked until the consumer’s use “violate[d] the law” or breached an organisational regulation.

PRODUCTIVITY: THE BASIS OF MODERNISATION

Modernisation theorists prescribed the capitalist process as necessary to bring about economic growth. Key to this was productivity (Worsley, 1988:82; Hettne, 1990:60; Peet, 1999:1,17,25; Todaro & Smith, 2006:15-6). Modernisation proponent and economist Professor Kwan Lie (1971:v,25) argued that the cultural values of a society influence beliefs surrounding productivity. Cultures that excel in production which increases economic development, he purported, tend to have higher “achievement motivation” (Lie, 1971:32). In addition, Lie (1971:v) suggested that productivity that does not lead to economic development, notably the labour undertaken by traditional societies for their own insular systems, could not be aligned with “the real meaning of productivity, [instead it had to] be termed Partial Productivity”. As such, Lie implicitly suggests that ‘undeveloped’ cultures or societies slowly moving toward industrial capitalist development lack, or have lower, “achievement motivation”. This in turn tends to imply that these same societies are either non, or partially productive members of the human race. This type of argument fails to consider the raft of conditions, priorities, values and circumstances that exist between different people groups. Jared Diamond’s (1998) well-publicised work on the reasons why humans developed at different rates over the past 13,000 years is an example.

The difference in values between traditional collectivist cultures and their imperialist colonial administrators concerning what comprised productive process was often a point of contention and frustration, especially for the administrators. Contemporary scholars argue that the colonials possessed stereotypical beliefs regarding the productive capacity of indigenous peoples, often referring to them as “lazy natives” (Nederveen Pieterse, 1992:90,91,153,199; Said, 1993:151,245-6). Firth (1997:263) quoted a colonial-era naval officer who stated that Pacific Islanders “had no concept of progress and no sense of industry or diligence.” Instead, he felt they had “common traits, [typical] of tropic peoples; lewd customs, barbarity, laziness and debauchery”. Additionally Thomas (1997:40), discussing missionary and colonionic stereotypes, stated that Pacific indigenites were considered “tribal ‘savages’… heathen… children in the dark… [lacking] social and domestic habits”. With colonial administrators further believing they had a “moral duty to ‘civilize the natives’ by introducing development.

4 Bradburd & Jankowiak (2003c), in their edited publication entitled Drugs, Labor, and Colonial Expansion, examine the exploitative relationship between the early colonial agents, which they define as the merchants, traders and settlers, and the indigenous populace of 94 colonies (2003a:12,21; 2003b:182,186). They argue that in order for these colonial agents to expand trade and build their systems of capitalism, “inducers” and “enhancers”, such as cannabis, tobacco, opium, caffeine, cocaine and alcohol were extensively used (2003a:3-4,6,11,13,21-22). The “inducers” were employed in order to deliberately develop drug dependency, which lured indigenous labourers and encouraged them to return to the workplace, while the “enhancers” aided productivity levels by artificially eliminating fatigue and increasing alertness – a form of exploitation (2003b:186). Interestingly, where these same substances did not aid colonial expansion, they were considered ‘primitive’ and an encouragement to superstitious gullibility [as discussed in an earlier section in this chapter]. Moreover, the use of certain substances was prohibited within the work environment if deemed a threat to productivity. As new technology evolved and understandings regarding effective productivity developed, not to mention the regulatory bodies beginning to take into account increasing public opinion, such overt exploitative practices lost favour (2003a:26-7).

5 Diamond (1998), asking why Europeans ‘developed’ at a greater pace than other races dispels the myth that it was based on racial superiority. Instead he argues the reason was based on geography, with many of today’s developed nations being those who, in their original settings, had natural resources such as barley and wheat and domestical animals such as cows, pigs, sheep and goats; resources unavailable to most of the less developed, or developing nations (also see Nederveen Pieterse, 2010:111-2).
to them” (Gegeo, 1998:298; also see Said, 1993:225), there was a push for increased levels of productivity within developing nations as part of changing local paradigms and values. Overall, the message was clear — culture was little more than a hindrance to productive process (Van der Grijp, 2004:22,188).

**MODERNISATION, PRODUCTIVITY, THREATS AND INDIGENOUS SUBSTANCES**

Nineteenth-century economists during the era of industrialisation attributed capitalist development to mechanisation and new productivity techniques (Lie,1971:14-5). This paradigm is based on the ideas of Adam Smith (1852:327). He suggested in 1776 that economic growth resulted not from a generalised knowledge of productivity, such as those of the “hunters [and] sheep-herd[ers] in barbarous societies”, but instead developed out of worker specialisation more commonly termed the *division of labour*. The input of human labour comprises a key aspect of the productive process (Whiteside & Salais, 1998:5-6) and therefore forms a central theme in the theory of productivity.

**PRODUCTIVITY DEFINED**

Theorists broadly define production as “any transformation process” involving human participation that will produce something of greater value “than the original input elements” (Frisch, 1965:3,8). Both resources and materials are included as part of these input elements with the former encompassing the human component (Tisdell & Ward, 1981:73-5). The general theory of production recognises that the inputs of *quality* and *time* comprise part of, add value to, and are vitally important to any output (Frisch, 1965:29-30). Therefore, when human participation as part of the production process is considered independently from material inputs, the superiority of that human input, both physically and mentally, are necessary factors in achieving quality output (Kelly, Foltin & Fischman, 1990:131). Physically, quality output relies on appropriate input levels of dexterity, flexibility, agility, and strength. Mentally, executive functioning, or the cognitive elements of alertness, creativity, spatial and perceptual awareness, coordination, linear processing, multitasking, abstraction, judgment, recall and communication are requirements of quality output (Passer & Smith, 2001:105; Sadock & Sadock, 2003:280-7). It was not until the industrial era that these human inputs were considered instrumental to productivity.

**THREATS TO PRODUCTIVITY**

Since the Industrial Revolution, production analysts have examined both contributories and threats to productivity. In 1996 three leading Taiwanese academics were appointed by the Taiwan Council of Labour Affairs to develop a Labour Quality Index (LQA) in order to aid productivity in the manufacturing industry (San, Huang, & Huang, 2006:65). Using data collected over a ten-year period the researchers were able to identify a number of primary factors conducive to quality productivity. With each factor, variables were identified that indicated potential threats to each of these primary factors. For the purpose of this investigation only “Factor Five: Worker health and safety”, will be investigated from the perspective of indigenous substances.

Within the worker health and safety factors, four variables or threats to productivity were identified: sickness, injury, inappropriate habits that impacted work and/or health, and the loss of working hours due to work-related accidents (San, Huang, & Huang, 2006:67). Loup (1994:19-20) stated that a major contributory to these same variables are the use and abuse of indigenous substances, such as alcohol, by employees. The designation of alcohol as an indigenous substance is deliberate. Alcohol is potentially the ‘original indigenous substance’ (Patrick, 1952:12-3; Durrant & Thakker, 2003:14-15) (see p.24) which, together with five other traditional preparations, will be discussed in the following chapter to justify this terminology. Loup added that substance users are both dangerous and expensive to the work place and systems of productivity. For instance, he claims that those who use these preparations are four times more likely to suffer a work-related accident, are three times more likely to arrive late compared with the average worker, and account for up to 80% of sick leave (Loup, 1994:19-20).

**SICKNESS, LATENESS AND ABSENTEEISM AS THREATS TO PRODUCTIVITY**

Taiwanese data collected from 1990 to 1999 revealed that tobacco smokers took an average of 6.4 sick days annually compared with 3.5 sick days for non-users (Tsai, Wen, Hu, Cheng, & Huang, 2005:i34). This amounted...
to US$184 million per annum in lost revenue (Tsai et al., 2005:i34). Similarly, Patterson & Smith (2007:839,846) report that alcohol hangover is responsible for 40% of workplace lateness and absenteeism in the US and resulted in an estimated $119 billion in lost productivity in 1995. Further, “alcohol and workplace accidents are highly correlated”, often related to the hangover effect which “manifests [as] sluggish psychomotor responses, memory and cognition disturbances, and generalized feelings of malaise” (Peterson & Smith, 2007:839,846).

Finally, Abdel-Ghany & Silver’s 1998 research, “which investigated [Canadian] alcohol consumption rates by occupational categories, established that teachers, on average, consumed more alcohol than any other group” (p.81). Clearly, sickness, lateness and absenteeism have implications for discussion on indigenous substances.

PRODUCTIVITY, INDIGENOUS SUBSTANCES AND THEIR DERIVATIVES

Workplace drug tests conducted in the US in 2004 established that 6.2% of workers had recently used illicit opium derivatives such as morphine and codeine, 17.7% had tested positive for cocaine and 54.8% for marijuana (Caplin, 2008:5). The impact of the use of these types of substances, when combined with the work environment, can be considerable. For example, in 1987 a locomotive driver and his assistant, who had recently smoked marijuana, failed to heed a stop sign, resulting in a head on rail smash in Maryland, USA (Railway Safety Act Review Committee, 1984). They cost Conrail and Amtrak US$17 million in property damage, not to mention the costs related to the loss of 16 lives and injuries to a further 174.

An additional concern regarding indigenous substances, and one that also has the ability to impact productivity, is drug interaction. Fugh-Berman and Ernst (2001:587-588) commented that the use of natural remedies is becoming increasingly popular in Western societies, resulting in an increase of physiological interaction due to indigenous substances clashing with conventional medicines. However, the long-term effects of these interactions are unclear, prompting Fugh-Berman & Ernst (2001:587) to call for extensive ongoing research in this area. A number of interaction cases have also surfaced within the South Pacific associated with the use of local substances. For instance, Deahl (1989:331) found that when betelnut was combined with Procyclidine based anti-psychotic medications, it resulted in acute Parkinsonian-type tremors (Sadock & Sadock, 2003:497). Researchers also established that the soporific relaxant kava enhances the intoxicant affects of alcohol (Foo & Lemon, 1997:155) and potentiates benzodiazepines, barbiturates and central nervous system depressants (Chanwai, 2000:960; Zhou, 2006:46). Additionally, when kava is taken together with Cimetidine, a treatment for stomach ulcers, this was found to cause “disorientation [and] addictive effects” (Fugh-Berman & Ernst, 2001:587-8).

Substance addiction is also recognised as contributing to productivity loss. According to Cherry, Dillon & Rugh (2002:ix), the “user’s preoccupation with the substance” together with its effects on performance and mood often contributes to “poor work performance and job dismissal”. Although this will be discussed in the following chapter, it is worth noting at this point the main responses governments have had to substance addiction when this has manifested as a threat to productivity and/or socio-cultural systems – predominantly in the form of prohibitions.

PROHIBITION TO AID PRODUCTIVITY

The idea of prohibition most often tends to be linked with the Noble Experiment, or America’s alcohol prohibition of 1920–1933. However, the first targeted response to substance abuse and addiction occurred 30 years earlier, with American legislation prohibiting the use of opium and opium smoking dens (Cherry et al., 2002:xiii; Williams, 2004:114-5). Williams (2004:114-5) argues that this 1878 prohibition was influenced by the “Traditional theory of economics... [which] dictated that cutting the supply of a particular commodity will eventually decrease demand”, a notion that proved, in most cases, to have been ineffective.

Burton-Bradley (1966:744) asked if “it was indeed possible to eliminate [a widely used indigenous substances], what then would take its place?” Denoting that prohibition is often ineffective, he suggested that traditional preparations, especially those with a recreational aspect, are constantly in “competition with one and other”. He cited a situation in India where alcoholics substituted wine for betelnut to mitigate problematic and addictive use. While it could be argued that a substance switch to betelnut is the ‘lesser of two evils’ (due to betel's
arousal properties and potential to enhance productivity; also see p.33), chewing still has the potential to inhibit productivity as the culture associated with it tends to encourage users to congregate therefore drawing workers away from responsibilities (see p.33,34).

Williams (2004) suggested a further difficulty concerning prohibition. He argued this measure does little more than create “lucrative underground trade” that promotes tension between groups seeking to dominate illicit markets (p.116). Anderson, Beckerleg, & Hailu et al. discussed the prohibition of *khat* (an African indigenous substance with mild stimulant properties) in Canada and Sweden in 2006, noting that following the *khat* interdict, heavy users mirrored the behaviours of other prohibited substance users, investing significant time and resources in sourcing their substance of choice, often at the expense of relationships, study and work. They added that a substance that once had customary and traditional significance as part of the “rhythm of daily life slip[ped] into a dysfunctional obsession that [was] exacerbated by stringent control measures” (p.206). Additionally, they were critical of the impacts the prohibition had on the socio-collectivist culture of its users. The chewing of *khat* is critical to identity, communication and relational connections among the predominantly Somalian users – cultural attributes that suffered under the prohibition (p.197-8).

**REFLECTION**

It has been explained that early modernisation theorists suggested development was readily attainable by rejecting traditional collectivist ideals, “primitive” cultural practices and insular systems of production by instead pursuing “cultivated European” individualism, industrailisation, and capitalist productivity. What many of these proponents failed to recognise was the depth, importance and saturation of many of the practices they deemed a hindrance to this pursuit. The use of indigenous substances such as those discussed above is one such example. To mitigate the impacts of traditional preparations on a critical element of development (namely productivity), prohibition has been recommended. However, this has had little impact. In some situations it had created new problems in the form of substance switch, black market economies and socio-culture upheaval. From a simplistic perspective, what unfolded is an example of a contemporary/traditional tension. In this situation the tension illustrates the contention between the use of indigenous substances with their origins based in ‘traditional’ settings and that of productivity, an element critical to the pursuit of ‘contemporary’ development. It is this contemporary/traditional tension that broadly encapsulates the focus of the overall study. As the thesis unfolds, the interconnecting relationship between the indigenous substance *yaqona (kava)* and another input to development, education, will be investigated.

**CHANGING IDEOLOGIES IN DEVELOPMENT THOUGHT**

The change from modernisation thinking to one that embraces culture rather than opposing it, is an exhaustive topic (Rao & Walton, 2004:9). From as early as the 1950s, a number of changes occurred concerning how development related to culture, which resulted from theorists and practitioners questioning why development had failed within nations that were strongly influenced by traditional practices and a collectivist culture (Briggs, 2008:107). This included debate on how culture and the ‘culture of development’ should best interact (Schech & Haggis, 2008:50). The United Nations Educational Scientific and Cultural Organisation (UNESCO) (1995:c) contributed to commentary on the ‘culture of development’. Development practice, they argued, is characterised by the “industrialized market economy” of the developed nations, and represents a set of values and approaches which often manifests as societal dis-cohesion in developing nations. According to Ishemo (2002:33), the disruption to socio-cultural systems from the ‘culture of development’ is the result of development’s impact on “the symbols of people’s identity”, or their culture. Identity is important to this study, and is a theme I will return to later.

Nederveen Pieterse (2010) adds to the the commentary on what prompted the change in development thinking by suggesting, “conventionally development has been a monocultural project. Modernisation and Westernization
were virtually synonymous... In the context of decolonization struggles, this began to change: along with the indigenization of politics and administration, indigenous culture and knowledge became an additional topos” (p.16). For example, independence in several Pacific Island nations during the early 1970s was followed by cultural renaissance that in turn encouraged further debate, both internal and external, regarding the role of tradition when combined with economic development. This included discussion on gender equality and democracy (Linnenik, 1997:414), with local initiatives both encouraged and deemed necessary. For example ni-Vanuatu were inspired to consume their indigenous substance namaloku and nekava and embrace local styles of music (Davis & Brown, 1999:8).

In the Solomon Islands and PNG, national councils were appointed and presided over by chiefly figures who advised on matters of custom (Linnenik, 1997:414). Further, colonial withdrawal often impacted resource availability requiring some developing nations to renew indigenous substance use as part of healthcare requirements (McGowan, 2000:29-30).

Another influence that prompted academics to reconsider culture as a valuable input to development was the massive economic growth that had occurred in East Asia between the 1960s and 1990s (Haggis & Schech, 2002:xi). Park (1993:125-6) argued that the economic success of Taiwan, Korea, Singapore and Hong Kong was not purely based upon economic factors, but could also be attributed to the cultural principles and moral teachings of Confucianism (also see Haggis & Schech, 2002:xxi). In these economically successful nations, Park argued (1993:125) that, Confucianism “emphasizes faith, loyalty, filial piety, harmony, and intellectualism…, a social ethic that the ruling class used to achieve political and social stability”, which subsequently aided economic growth.

The most prominent situation that led to culture being reconsidered in development discourse occurred during the 1980s. This was initiated by what Sarah Radcliffe (2006:3-4) described as the “widespread disillusionment” among development actors due to the large “failure [rate] of projects on the ground.” This stalemate in development was designated by academics as the ‘impasse in development studies’ (Booth, 1985:776). According to Schuurman (2002:12-3), this ‘impasse’ was the result of three sequential processes. The first was development’s failure in the Third World resulting from the absence of local gains from the “trickle-down process”, human rights violations, substandard housing, poverty, unemployment and land loss, that were related to underdevelopment. The second was the examination of development by post-modernists within the social sciences generally, most notably in the area of development studies, who sought an alternative to the inequities caused by Westernisation or imperialism. The third was the advancement of international investment and financial markets that evolved as a result of improved communication and deregulation. This spurred a range of new perspectives and ideas about development (Schuurman, 2002:12-3) influenced by “cultural studies, post-colonial studies and globalization” (Schech & Haggis, 2008:51) under designations such as “anti-modernist development, alternative development, reflective development, and [more recently] post-development” (Schuurman, 2000:7-8).

A fourth influence on how culture was perceived emerged in the conference arena, with the first major venue being Mexico City in 1982 where UNESCO hosted the World Conference on Cultural Politics. During this conference it was ratified that the ten-year period between 1988–1997 was to be the World Decade for Cultural Development, with a mandate to acknowledge “the cultural dimension of development” (UNESCO, 1995:13; Nederveen Pieterse, 2010:16). UNESCO (1995:21) stated that the 1980s had been a time of great “transition, [when] culture was no longer defined as a subsidiary or even ornamental dimension of development, but the very fabric of society in its overall relation with development and as the internal force of that society”. It was suggested the World Decade for Cultural Development would bridge the divide between the quantifiable aspects of development and the intangible aspects of culture such as collectivism, ambition, creativity, apprehension, prohibition, identity etc. (UNESCO, 1995:13). The second venue that influenced the culture / development debate, and one that followed the World Decade for Cultural Development, was a Harvard initiated symposium
convened in 1999, entitled *Cultural Values and Human Progress*. Attendees of this symposium outlined a number of factors that should be incorporated within development planning, policy and programmes in Third World nations (Harrison, 2000:xxiv-xxxii). These elements were mostly centred on understanding cultural attitudes and values as positives to development, and enabling the development process to be maneuvered in order to lessen disruption in meeting development goals (Harrison, 2000:xxxii-xxxiv).

It would appear though that there is a level of disagreement between these groups. On one hand, UNESCO believed the 1980s to be a time of transformation, where culture was lifted from the ‘display cabinet’ and placed squarely within the “fabric of society”. On the other, the 1999 Harvard *Cultural Values* conference appeared to have tempered UNESCO’s enthusiasm. What resulted in practice tended to reflect the beliefs voiced at the *Cultural Values* conference, an ongoing alternative approach to development. Alternative developmental approaches evolved as a challenge to modernisation. Instead of development simply adhering to conventional practices measured by the growth of Gross National Product (GDP) (Pieterse, 1998:344), which epitomised modernisation, alternative development considers “basic-needs” (Brohman, 1996:202) bottom-up approaches, and rural forms of development as an answer to poverty reduction, income disparity and underemployment (also see Nederveen Pieterse, 2010:117). The virtues and merits of this approach continue to be espoused today and were reinforced by academics who discussed alternative development in a 2004-edited collection of papers on culture and development (Rao & Watson, 2004). The contributors to the publication suggested that alternative development, which acknowledges culture within the development process, is a “moderate middle ground” situated midway between that of modernisation, which they argue aims to reconstruct culture to be more conducive to the demands of economic growth, and the “extreme” opposite – post-development.

This alternative “moderate middle ground”, according to Rao & Watson (2004:30), is where practitioners undertake development aided by local participation. They add that ‘development in partnership’ with the local populace has been pivotal in moving the process on from its former top-down modernisation formula (p.28). Eade (2002:ix) however, is not convinced. Although she acknowledges that “cultural identity and traditional practices [have become more] acceptable” under an alternative development approach, practitioners and policy-makers nevertheless continue to view all cultures as homogeneous, and deem culture “acceptable provided… [it does] not interfere with economic progress or with the conventional development indicators” (p.ix). Harrison (2000:xxxii), a strong proponent of embracing culture in development, is a little more excusing. He argued that culture is a difficult concept both to measure and define, preventing the identification of “cause-and-effect relationships” when associated with institutions, policies and economic development.

Although alternative development continues to play a key role in many development projects (Nederveen Pieterse, 2010:84), at the national level development thinking has evolved toward a neo-liberal model. Brohman (1995:125) and Simon (2008) explain that neo-liberalism has similarities with modernisation in that it retains many of the economic growth driven ideals of its predecessor having its “historical roots” (200:87) in the ideas of early theorists such as Adam Smith who argued the need for worker specialisation and the importance of productivity (also see Deraniyagala, 2005:102; Onyemelukwe, 2005:20). The neo-liberal development agenda is primarily concerned with the deregulation of local markets aimed at the promotion of ‘free-trade’, a system of economics that seeks privatisation in which businesses determine and set prices and in turn create competitiveness with very little restriction as part of growing and building a world market, contributing to what is commonly referred to as ‘globalisation’ (Brohman, 1995:134; Peet & Hartwick, 2009:83-4). Therefore, this theory is underpinned by modernisation economics and ideals from classical liberalism such as freedoms, liberties and limited role for governments – in other words “neoclassical economics – hence neo(new)liberalism” applied on a global scale (Simon, 2008:87; Wilm, 2011:61). Hettne (2008:9) adds, “Globalisation, as influenced by neoliberal economic policies, has become the new word for mainstream development”. Moreover, neo-liberalism has become the development focus of many developing countries. This is often not so much out of choice, but rather as a conditional requirement of multi-national finance organisations such as the International Monetary Fund (IMF).
and the World Bank (WB) (Brohman, 1995:135).8

Fiji, strongly influenced by traditional “beliefs and values, rituals and ceremonies” (Ravuvu, 1983:v; also see Van Fossen, 1998:93), is an example of a developing country8 forced to embrace a neo-liberal development agenda as a requirement of the IMF and WB (Tuinamuana, 2005:202). Wood & Naidu (2009:156-7), and more recently Barr (2012:12), explained neo-liberal reforms in Fiji can be seen in the marked cost increases associated with utilities and services, increased food costs and the introduction of Value Added Tax (VAT), and the devaluation of the dollar, which was suggested “to improve foreign reserves”. Although these measures were prescribed as an aid to development, some commentators are highly critical of their effectiveness and argue the opposite. In Bargh’s (2001:252) opinion, “neoliberalism… is an ideology which reinforces a re-colonisation in the Pacific… As Neoliberalism colonises it replaces indigenous structures with its own… [forms of hegemonic] institutional, state, corporate and intellectual pressure” (also see Brohman, 1995:127).

Although neo-liberalism does not seek the complete elimination of culture in the manner of its predecessor, modernisation, Cockley (2010:151-2) asserts it is just as destructive in alternative ways. For instance, he argues that neo-liberalism infers those who do not engage the market economy – such as subsistence farmers, a vocation common in Fiji (Clammer, 1979:110; Shoup, 2008:109) – are without entrepreneurship, are poor and lazy, and therefore lack work desirability and motivation (p.149-50). These factors strongly mirror the economic aspects of modernisation theory, including the importance of productivity and productive process. Further, neo-liberalism, asserts Cockley, “favors large multi-national corporations” which perpetuates a “subordinating… [of] indigenous cultures” (p.151). This in turn forces these subordinate cultures to mould to “market strategies… [and forfeit] peer-to-peer transfer” including reciprocal processes – which again is a common form of economy within Fiji’s communal kinship structure (p.87 this study; Ryle, 2010:115) – and rely “on profitability instead of the needs of the society” (Cockley, 2010:152).

Additionally, “neoliberal policies... endorse... the privatization of communal lands” (Chase, 2002:8), an ideology that stands in opposition to Fiji’s situation – 83% of the land is communally owned –, which Vanualailai (2008:242) argued makes private-sector land development extremely difficult. Moreover, “Free markets potentially bring an ever-increasing number of products and images to bear on the population, escalating the rate of change and pushing anything known as indigenous culture to the wayside” (Cockley, 2010:152). As Cockley (2010:152) explained, this in turn subjugates cultural identity, a theme that has great applicability to iTaukei who are currently struggling to cope with the change that is conflicting with their anti-materialistic value system (see p.116; Howard, 1991:54).

REFLECTION

This discussion highlighted changes in development thinking, particularly its transition from enlightened modernity and modernisation to neo-liberalism, with an emphasis on culture. Although neo-liberalism, with its underlying framework of ‘free trade’ and globalisation, does not intentionally seek cultural elimination in the manner of modernisation, it nevertheless aids this aim (Sardar, 1997:296-7). Culture essentially remains a state of ‘other-ness’ – it is considered anti-entrepreneurial, anti-industrialised, anti-transformative, anti-progressive, anti-modern, anti-developed and anti-Western (Cockley, 2010:149-52) – but this time under a new development paradigm.

The embracing of neo-liberalism by the Fijian Government as part of its national development agenda hints at the traditional/contemporary tension. In this case the ‘traditional’ aspect of the tension refers to a strong sense of ‘other-ness’ in Fiji, represented in the “beliefs and values, rituals and ceremonies” derived from its traditional

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8 Peet & Hartwick (2009:85-6) list the neo-liberal “set of ‘policy instruments’... applied to (mainly Third World) borrowing countries by the World Bank and the IMF... [which] include: Fiscal discipline... Reducing public expenditure... Tax reform... Interest rates... Competitive exchange rates... Trade liberalization... Encouraging direct foreign investment... Privatization... Deregulation... [and] Securing property rights”.

9 The Bureau of East Asian and Pacific Affairs (BEA&PA, 2012) country profile for Fiji reports in 2011 report Fiji had a population of just over 850,000 comprising 57% iTaukei, 37% Fijian and 6% other, with 67% of the workforce engaged in agriculture, much of this subsistent, 7% unemployment, GDP per capita $3,805, primary industry being tourism, sugar, garments, exports of US$851.6 million and imports of US$2,063 billion, and a Government net debt of an estimated $1.92 billion.
culture (Ravuvu, 1983:v; also see Van Fossen, 1998:93). This ‘other-ness’ includes traditional practices such as subsistence agriculture, an economy that utilises reciprocity, communal land ownership, and a cultural system that values anti-materialism that stands in opposition to the ‘contemporary’ tenets of neo-liberalism and its entrepreneurism, industrialisation and transformative processes. However, at the same time this is far from simplistic as the Government also recognise that the traditional values and aspects of its culture can be valuable to the developmental process, as will be discussed later. Essentially the traditional/contemporary tension is the contentious interplay between aspects of the development agenda embraced at Fiji’s national level to increase economic advancement and cultural values.

Although development practitioners still have some way to go before the culture/development chiastic axis is successfully united (Radcliffe, 2006:2), academics and practitioners continue to wrestle with these issues. Eade (2002) suggested that there are an increasing number of development thinkers, which include those who have traditionally aligned themselves with the more conventional development approaches, who have become “sensitive to the relationship between culture and development, [understanding that] development is itself a cultural construct, a basis for inter-cultural engagement” (p.x). On the other hand, Escobar (1992:27) – who along with Esteva, have been referred to as post-development “purists” or extremists (McGregor, 2007:160) – cannot imagine successful development being united in any format, with external developmental systems, and therefore calls, for a complete alternative to development. While Eade and Escobar may differ regarding certain aspects of development theory and practice, they also share several commonalities. It is these commonalities that unite such development thinkers under the umbrella of post-development.

POST-DEVELOPMENT THOUGHT
In his summary on post-development, Ziai (2007:13) describes how the ideology arose out of a disappointment by scholars and theorists over a lack of developmental achievement promised to the developing world during the 1980s. Jakimow (2008:321) and Nederveen Pieterse (2000:176, 181; 2010:111) acknowledge that post-development is not a clear and consistent paradigm in the manner of development theories such as modernisation (Saunders, 2002:24). Peet & Hartwick (2009:227) add that although post-development thinking may appear ambiguous and fail to have marked boundaries as a discourse, it nevertheless has an obvious central theme. That theme, the core thesis that unites academics (such as Eade and Escobar) from different disciplines is the criticism of external hegemonic development systems and the importance of culture, traditional knowledge, and self-determination at a local level to bring about successful development in developing nations (Peet & Hartwick, 2009:226-7).

Discourse on these power/knowledge hierarchies is drawn from post-structuralism, post-modernism and post-colonial critique (Scheyvens, 2011:42). For example, post-development draws on a thread within post-colonialism (also known as “anti-colonial theory”, McEwan, 2009:74), which critiques colonial economic, cultural and political practices by highlighting power injustices and imperialism with the aim of abolishing negative stereotypes (McEwan, 2009). Much the same as structuralism, a Marxist/Southern approach using economic discourse to critique capitalism and imagine human liberation resulting from localised development processes, post-structuralism notes power injustices and systems of control existing within this framework (Peet & Hartwick, 2009:197-8). Simply, it is these key themes of external dominance and power hierarchies that constrain local systems of development through a form of Western-centric hegemony (Gibson-Graham, 2005:4; Jakimow, 2008:321; McEwan, 2009:104; Peet & Hartwick, 2009:227; Nederveen Pieterse, 2010:119) which chiefly inform post-development. However, proponents of post-development (who I will refer to as post-developmentalists) have then added to these post- critiques and asked a key question of development practitioners and scholars with the aim to giving a voice to developing communities. They ask, “by what right and on whose authority do [you as external, non local people] claim to speak?” This is an important question when contextually defining what is, and how, development should be done (McEwan, 2009:243-4)? Additionally, it is this question and this ideology that sets post-development apart from alternative development.

The argument for self-determinism and the rejection of external development inputs, unless requested by the
local, has resulted in post-development being designated “anti-development” in some sectors (Simon, 1997:184; McKinnon, 2008:281; Nederveen Pieterse, 2010:111). Post-developmentalists argue that development, in order to be effective, must be initiated, theorised and outworked from within by social movements (Escobar, 1995a:98, Horn, 2000:34; Verhelst & Tyndale, 2002:11; McEwan, 2009:229), with external systems utilised at the discretion of the local community (Radcliffe: 2006:17-8). Ziai (2007:5) states that alternative forms of economy, such as alliance and exchange, dominate in a post-development ideology. Localised democracy replaces centralised forms of governance and traditional knowledge has legitimacy (Ziai, 2007:5, Peet & Hartwick, 2009:230). Post-developmentalists argue that this approach is at variance with conventional development practice in which indigenous “peoples are rarely asked what type of development they want”, and instead have been treated as “objects of various models” (Anacleti, 2002:168). Again, this reiterates that post-development is essentially about local power and knowledge, development that is formulated from within and advised by culture (Jakimow, 2008:321). This, Anacleti (2002:172) suggested, is what constitutes ‘real’ development, when “people participate in decisions that affect their lives, start[ing] from what they are and with what they know. What most people know is their own culture and values”. Additionally, Radcliffe & Laurie (2006:103) argue that this ingredient is necessary in order to motivate people in grassroots development. This creates empowerment among those living at the coal-face, and is fundamental to post-development thought.

Ziai (2007:4-6) states that post-development is informed by three prominent academic publications. The first is Sachs’ (2000) Development Dictionary, a collection of papers criticising modernisation and its goal to eliminate culture. In the introduction to his book, Sachs (1992:1-2) sets the scene for later contributors by stating that “development” – which he argued ‘officially’ commenced in January 1946 when Harry S. Truman labelled developing nations “underdeveloped” – “does not work”. He suggested that this “development”, based on an industrialised First World model that urges all people groups to pursue a prescribed path toward the “state of [developed] maturity”, has weakened diversity and created a monoculture striving to imitate the West (p.2-4). This, in turn, has corrupted the evolution of culture and subjugated alternative development styles that are more likely to function and ‘work’ within developing nations (p.4). Sachs argued that cultural salvation and a “post-development era” are possible once the misconceptions and power relations that exist within the industrialised First World development model have been critically exposed – the aim of the subsequent chapters in this book (p.4). Robert (1992:187), another contributor to the book, is highly critical of the impacts of the conventional development model on traditional cultures. She stated that in the case of medical services, instead of increasing development, it acted in a counter-productive manner by introducing new illness and restricting financial benefits to the prestigious medical elite. Esteva (1992:19), in an earlier chapter, reviewed some of the literature which analysed cultural groups who have re-established themselves in opposition to the conventional development model. This, he asserted, has removed their reliance on counter-productive externally driven medical services which have also created dependence, and reinstated and legitimised traditional healing systems including the use of indigenous substances (p.20).

According to Ziai, the second prominent work to influence post-development is that of Arturo Escobar. Escobar (1995a:9; 1997:92-3) stated that the predominant development approaches, including “alternative development”, are based on unequal power relations dominated by the First World. He posits that this knowledge/power inequity can only be rectified, if and when, the knowledge base is shifted to the developmentee, or the grassroots community (Escobar, 1992b:415-6). Essentially this means that when the knowledge/power base shift occurs, development is then dominated by local cultural paradigms. Escobar is a leading “anti-development” voice calling for grassroots self-determination.

The third academic publication, described by Peet & Hartwick (2009:227) as a “manual of postdevelopmental thought”, and cited as a critical text influencing the rise of this ideology, is Rahnema and Bawtree’s (1997) Post-Development Reader. This collection of papers criticised the conventional development approach as being a First World ideology containing a subliminal cause-and-effect message that traditional culture was responsible for underdevelopment (Ziai, 2007:5). One of the book’s contributors, Ramonet (1997:179), suggested this ideology was manufactured by the leading financial and economic institutions. These structures, which he argued
included the International Monetary Fund, the World Bank and the European Commission, propelled a heretic doctrine promoting capitalism which benefited the First World, but stifled alternative processes of development in developing nations (p.179). Additionally, Rahnema (in Ki-Zerbo, Kane, Archibald, Lizop, & Rahnema, 1997:158) purported that the promotion of education as a principle development strategy within developing nations by the same First World hierarchies was in actuality a deception. He added that it simply acts as a means to discredit local systems and traditional knowledge while promoting capitalist processes that benefit the First World. In the concluding chapter of the book Rahnema (1997:391) suggests that for “the post-development era” to exist, First World deceptions that “pervade the development world” must cease, and those same unethical structures must change to encourage and assist developing nations in self-determination.

POST-DEVELOPMENT: THE CRITICS

Critical debate surrounding post-development is widespread (Jakimow, 2008:313), with critics frequently accusing the ideology of being little more than a focused attack on development and failing to detail the specific ways this evolving ideology will achieve development (Corbridge, 1998:143; Ziai, 2007:6; Jakimow, 2008:313). Nederveen Pieterse (2010) suggested post-development lacks longevity because its “major limitation… is that it offers no significant future prospective beyond local autonomy, so the most likely future of post-development is localism” and is also critical of this lack of practical application (p.186). He argues that post-development is simply “discourse analysis applied to development… [that] has been turned into an ideological platform” (p.115).

During the early years of post-development, this criticism that post-development lacked practical application did have merit. For example, post-developmentalist Arturo Escobar (1995b), in his article in which he “imagin[es] a post-development era” (p.211), essentially reasserts his benchmark beliefs concerning the deliberate deconstruction of the Third World by the hegemonic West and the influence of post-structuralism, post-modernism and post-Marxism on social movements in Latin America (p.212-4). Without detailing any specifics, Escobar concludes his paper by imagining post-development as the era in which social movements are empowered by defining development from their own terms, free of the “dominant policies of knowledge and organization of the world” (p.225-7). In limiting his comments to this vision, he neglects to list the methods of achieving his imagined utopia.

A second example fuelled the debate – Schech & Haggis’s (2000) book entitled Culture and Development. This also explored and critical conventional development approaches and identified that overall there is a lack of connectedness between development and culture outside of its relationship to economic process (p.15,53). It is from the anthropological discipline they argued that the wider aspects of culture as a ‘discourse’ are explored (p.22). This is followed by a discussion of culture as a theme within evolving development thinking, and briefly touches on post-development by again unfolding Escobar’s theories of targeted inequity and hegemony by the First World over the Third (p.79-82). The remaining four chapters of the book investigate the themes of tradition and identity in opposition to modernity, focusing on evolving thought regarding feminism, human rights and the information revolution. With the exception of a few lines in which Schech & Haggis discuss the use of modern technology by two indigenous communities as part of traditional knowledge transfer (p.80), there are no designs, approaches, or developmental methods discussed.

In 2008 Schech & Haggis were given a second opportunity to add to the themes of their 2000 book and address the critics of post-development in the second edition of The Companion to Development Studies. Although they cited more recent research, they again followed a similar investigative path by discussing why culture is important to development without detailing methods or systems. This could well be a deliberate ploy by Schech & Haggis, excused by way of a comment made in their 2000 book. Their earlier argument was that the aim of post-development and its engagement with culture and development was to prompt further discussion regarding “what is meant by development and in whose interests it operates” (p.29), discussion which did not include practical applications. Additionally, they asserted that post-development offers the potential to “tap… indigenous traditions… as a resource… in order to solve contemporary problems caused by modernization and development – problems such as environmental destruction and loss of community” (p.124) as opposed
to detailing development practice. Although critics argue that post-development is more discourse-orientated than practically based, some are nevertheless engaging the latter.

**POST-DEVELOPMENT IN ACTION**

Several scholars have taken up the challenge to address the criticism that post-development is vastly more than an attack on development without detailing practical application. Gibson-Graham (2005:12) discussed a project in the Philippines, which they argued challenges conventional hegemonic developmental approaches. Although acknowledging that this venture has “a thin veneer of capitalist economic activity”, it is nonetheless “underlain by a thick mesh of traditional practices and relationships of gifting, sharing, borrowing, volunteering, and reciprocated individual and collective work” (p.16). This they suggest provides an example of post-development in action. In the closing sections of their paper, Gibson-Graham essentially speak to the critics. By echoing those such as Scheck & Haggis, they suggested that the principal challenge for post-development is not the formulation of new strategies and theories, but is instead the empowerment of those who are subjugated by conventional development practice through acknowledging socio-cultural dynamics such as “shared traditions and knowledges” (p.20).

McKinnon (2008) is another author who counters the criticism that post-development lacks of practical application. She details the use of post-development as an analytical tool when considering a development project in Northern Thailand (p.283-4). In her paper she explains that by using a post-development methodology, namely a genealogical approach to analyse “hierarchies of power”11, she was able to identify how highlanders in the northern regions of Thailand “came to be characterised as a problematic population in need of development assistance” (p.282) following the identification of several socio-economic, ecological and border security threats by the Thai Ministry for the Interior (p.284). McKinnon states, “the discourse of a ‘hill tribe problem’ provided the rationale for development interventions, and a means... for highlanders to become subjects... under the formal authority of development programs” (p.286) by having development imposed upon them.

What is of greatest interest regarding McKinnon’s research is a closing comment that echoes Gibson-Graham and Scheck & Haggis. McKinnon suggests that, although she was able to use post-development in a practical manner, the importance of the ideology is its basis as a critique which challenges hegemonic practices within development processes (p.291). In other words, McKinnon argues that post-development was never meant to be a linear or prescriptive method of development. Rather, it means to act as a critical lens which challenges power inequities within the conventional development agenda. Ziai (2007:232) adds to this when he states that this ideology does not have all of the answers, instead what it has done is “ask the right questions and carry on the debate about ‘development’”. Additionally, Storey (2000:45) asserts that the strength of post-development is reflected in the way it highlights the negative aspects of development rather than attempting to codify development practice.

Curry (2003) and McGregor (2007) are two additional academics who have considered the practicalities of post-development. Curry (2003) for example draws on fieldwork data obtained from oil palm farms in PNG (p.413), and explains how harvesting cycles have been manipulated to coincide with cultural practices and events that require financial assistance (p.414). This he suggests demonstrates the value of “nonmarket economic relations associated with gift exchange and the social embeddedness of economies” (p.420). In another case, McGregor (2007) reviewed the restructuring and adaptation of conventional aid programmes in Timor-Leste to conform with “post-development futures” (p.168). He explained that where these aid programmes had traditionally been externally designed and driven, experimentation and modification to comply with local systems and processes not only encouraged self-determination and empowerment, but also complied with “post-development ideals” (p.167-8). Essentially Curry and McGregor show the agency and resistance of communities and how locals co-opt and contest development processes to meet their own needs. Additionally, they add to the view point that development interventions are not inherently destructive or problematic.

Finally, post-development does not completely prohibit outsider involvement but rather influences how that

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10 J.K. Gibson-Graham is a *nom de plume* of sorts used by geographers Julie Graham and Katherine Gibson.
11 McKinnon’s (2008:282) methodology was informed by the work of Michel Foucault, whose later works influence post-development thought.
involvement should be applied, further exemplifying hybridity as demonstrated by the likes of Curry. What is importance is that any external collaboration is locally initiated, placing local systems, the importance of cultural issues and the knowledge/power disparity at the center of that union, which also aims to encourage development theorists and practitioners to consider new understandings and learning capacities. Where grassroots organisations call upon external agents to collaborate in development, post-developmentalists contend that these outsiders could simply assist with knowledge to facilitate understanding under the direction of the local.

The work of Verhelst & Tyndale (2002) is an example of such a collaborative approach. They comment that successful development can only happen when there is “truly participative methodology [and the] ability... of the development professional to listen to and incorporate local wisdom and experience” (p.8). Although they suggest that this approach will not necessarily eliminate complexities, it will give understanding to the issues that form the basis of people’s lives, while also revealing that culture is not some problem that needs to be overcome (p.19). Anthropologists have been attempting to give meaning and understanding to culture and traditional practices for several hundred years (Rosman & Rubel, 1995:301), and more recently they have been advisors to development (Gardner & Lewis, 2005:352; Peet & Hartwick, 2009:215; Nederveen Pieterse, 2010:72). However, in most cases, especially within conventional development, the intricacies concerning modes of understanding, ways of behavior and traditional practices have been resisted by development practitioners (Edelman & Haugerud, 2005:31). This, as I argued above, is because practitioners favour tangible forms of development and struggle with the ethereality of culture (Nederveen Pieterse, 2010:64). Nevertheless, as it has already been explained, post-development is attempting to lead by example, acknowledging the importance of culture and highlighting that for development to work it must be defined and initiated by the local. Additionally, post-development thinking, by accepting that flexibility in development is necessary, also understands that cultures may reject modern systems, or only embrace them in part (such as in the form of email, television, electricity), without abandoning culture (Huntington, 2002:29).

POST-DEVELOPMENT AND INDIGENOUS KNOWLEDGE

The final strength of the post-development ideology – an idea that will inform later discussions in this study – is the active engagement of indigenous knowledge, spirituality, and socio-cultural systems. Admittedly, the use of indigenous knowledge in development is not new (Berkes, 1999:251; McEwan, 2009:198) although it “has often been associated in the Western context with the primitive, the wild, the natural” (Semali & Kincheloe, 1999:3). For example, alternative development and neo-liberalism have embraced aspects of local understanding, notably in the areas of empowerment (Dove, 2000:236; Berkes, 2008:258), agriculture (Alcorn, 1995:6,11) and Primary Health Care (Finau, 1992:93-4; Slikkeveer & Slikkeveer, 1995:25-6,28; Biber-Klemm & Berglas, 2006:50; Guite & Acharya, 2006:99; Winkelman, 2009:323; Talbot & Verrinder, 2010:3) – especially midwifery (Scheepers, 2004:259; Negin, Roberts, & Lingam, 2010:15) – in order to facilitate areas of Western-initiated development (McEwan, 2009:198). McEwan (2009:198) suggests that the value of indigenous knowledge by conventional development structures is situational. Traditional understanding that does not lead to capitalist development, he argues, tends to be ignored. This in turn demonstrates subversive Western hegemonic systems over the local community.

The understanding and active engagement of post-development with indigenous knowledge has gone further than simply considering its value as an aid to externally initiated development (Hart, 2002:45). Post-developmentalists recognise that traditional systems of understanding result from the practices and applications of those who are situated within a given environment and its socio-cultural systems (Escobar, 1995a:170), knowledge that is pivotal to local developmental process (Watson, 2006:61) because it has evolved over generations (Briggs, 2008:107). Additionally, traditional knowledge “forms the information base which facilitates communication and decision-making” (Warren, Slikkeveer & Brokensha, 1995:xv). Many in developing nations are semi-illiterate, necessitating that indigenous knowledge and local processes be disseminated orally. According to Anacleti (2002:168), this makes it vitally important that those called upon by local communities to assist with development they understand the cultural complexities surrounding dialogue, or in the Pacific context, the
"talanoa" dialogue process (see p.88). If this “starting point” is overlooked by practitioners, collaboration and the understanding of local needs will be misinterpreted (Anacleti, 2002:168).

Alongside the dialogue process is spirituality – an often avoided/overlooked aspect of culture and local systems – that is critical to post-development.

**INDIGENOUS KNOWLEDGE AND SPIRITUALITY**

Indigenous knowledge systems go hand-in-hand with spirituality (Bodeker, 2007:24). Nabobo-Baba, Naisilisili, Bogitini, *et al.* (2012:23) state that indigenous spirituality has often been “misinterpreted by outsiders… as worshiping the devil… or sorcery… the fear of sorcery and particularly its lack of understanding have been used as an excuse to dismiss a whole field of indigenous knowledge by colonial and neo-colonial settler administrations with their imposed monotheistic religious beliefs.” Nabobo-Baba *et al.*’s comment also included discussion on the use of *yaqona* and the fears of some that this is linked to *vakatevoro* (literally meaning witchcraft, see p. 68,73).

Spirituality and development was a theme discussed in *Just Change* (2006)12. Although much of the publication discusses the role of religious organisations as partners in development practice, it also included a collaborative article voicing the opinions of development practitioners and academics concerning spirituality in development (Strelkcek, Duckworth, Symonds & Ball, 2006:6). Duckworth and Symonds (in Strelkcek, Duckworth, Symonds & Ball, 2006:6) argue that spirituality and the person are one and the same; they cannot be separated and worked with as individual entities in development. This clearly demonstrates the importance of spirituality to post-development. Within the same article, Ball added that the collective spiritual belief system of a community is the key in unified development decision-making, while Strelkcek suggested that development that ignored indigenous belief systems is simply “colonialism”.

In a later article in the same publication, Kousary (2006:22) comments that the challenge now is to develop “spiritual indicators” to assist and assess the development process. I would suggest that unless these indicators were developed and conceived of by the local this would simply reflect the power/knowledge differential criticised by post-developmentalists. Sanderson (2006:7), another contributor, reflects this belief when she comments that it has tended to be the external development agenda that has defined and valued spirituality within the development process. She continues by describing an alternative participatory development project she assisted with in Fiji which, she argues incorporated local spiritual expression and practice. Through a participatory methodology, Sanderson established that *vanua* (literally meaning the land, the people and the culture, see p.68), *lotu* (meaning church and spirituality) and *matanitu* (government and governance), were a unified and inseparable concept for iTaukei. Sanderson makes an interesting point when she concludes that for iTaukei, “material needs and community and culture [are] pictured inside spirituality” (p.7), therefore development cannot exist or unfold in isolation from culture.

Kousary (2006:22) adds that spirituality is an area which many development practitioners have shied away from, although is an area that Verhelst & Tyndale (2002:7) argues needs to be considered in order to understand culturally based development systems. Ver Beek (2002:60-1) suggests that spirituality often shapes the decision-making processes of many in the developing world. He comments that when development practitioners neglect this aspect of culture, it threatens local identity, empowerment, and collaboration, and therefore, hinders mutuality between the local and the development ‘expert’, a necessity to successful development (p.74).

This type of engagement with an invisible non-materialistic dimension of culture is a mammoth shift in thought from that of the development perspectives discussed earlier. Where these perspectives considered spirituality as being little more than a “primitive” ideology based on “crude myths” which stifled “economic initiative”, here it is considered an important part of the decision-making process in cultural development.

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CONCLUSION
This chapter began with a critical overview of modernisation theory and its marginalisation of culture. New approaches and paradigms were discussed, culminating with post-development. The key strength of this evolving ideology is the elimination of hegemony by embracing and acknowledging local culture and traditional knowledge systems. A second strength is the importance the ideology places on cultural systems and difference (Radcliffe, 2006:4). By pointing out that each culture embraces alternative practices, beliefs and modes of understanding, post-developmentalists argue that all development must start with what the people know. According to Anacleti (2002:172), “what most people know is their own culture and values”. Escobar (1995a:98,222) adds weight to this by warning development practitioners and academics that cultures are not homogenous. Therefore ‘development’ must resist formulating approaches that purport a ‘one-size-fits-all’ ideology (Nederveen Pieterse, 2010:16) and instead ask ‘what do the people want?’ These parameters provide some answers for the critics of post-development who complain that the ideology lacks practical application. That is, if post-development was to prescribe development practice, it would then be doing exactly what it states is the weakness of the other approaches, which in turn disempowers the local by removing their decision-making capacities (Storey, 2000:42).

In recent times, academics such as Gibson-Graham (2005), McKinnon (2008), Curry (2003) and McGregor (2007) have further challenged post-development critics by involving themselves in grassroots led development projects. Essentially, their roles were guided by “shared traditions and knowledges” (Gibson-Graham) and the exposure of hegemonic practices (McKinnon). These writers also demonstrate the use of co-opting and hybridity as part of the post-development approach, showing that not all development interventions are necessarily problematic or destructive. It must be acknowledged though that the approaches of these academics are at the moderate end of the post-development scale, application that post-development purists such as Escobar and Esteva would potentially question. The work of Gibson-Graham and company is important to this thesis as post-development acted as a primary influence which guided the field research methodology and analysis of the findings of this study.

Post-development, when compared with the dominant development theories (including modernisation, alternative development and neo-liberalism) is another example of the traditional/contemporary tension introduced in the first chapter. In this case, post-development is informed by ‘traditional’ cultural systems and processes of ‘other-ness’ whereas the dominant development theories represent the ‘contemporary’ pursuit of economic development. The ideals and ethos of ‘other-ness’ that underpin post-development contrast, or are in tension with, the development mandates of the predominant theories.

The following chapter will present five indigenous substances, their importance to the cultures in which they exist, and how conventional development systems, especially modernisation and its predecessor modernity paradigms have impacted their use. These themes will investigate the traditional/contemporary tension between development systems and culture, and, as such, the ‘problematic’ relationship between yagona, education delivery and national development in Fiji. Borrowing from Schech & Haggis (2000:124), this study intends to embrace a post-development approach in order to “tap… indigenous traditions… as a resource… in order to solve [a] contemporary problem caused by modernization and development”.

DOCTORAL THESIS

CHAPTER TWO: Development and Culture
CHAPTER 3
INDIGENOUS SUBSTANCES AND ‘MODERN’ SYSTEMS OF DEVELOPMENT

INTRODUCTION
This chapter investigates the impacts of ‘modern’ systems of development on the use of five indigenous substances. Indigenous substances can be found within almost all cultures (Cherry, Dillon, & Rugh, 2002:xiii; Rumbold & Hamilton, 2002:130-1; Szasz, 2003:19). Garibaldi & Turner (2004) make a valuable comment concerning indigenous substances. They state–

"there are plants and animals that form the contextual underpinnings of a culture, as reflected in their fundamental roles in diet, as materials, or in medicine. In addition, these species often feature prominently in the language, ceremonies, and narratives of native peoples and can be considered cultural icons. Without these ‘cultural keystone species’, the societies they support would be completely different... 'cultural keystone species'...[are] culturally salient species that shape in a major way the cultural identity of a people, as reflected in the fundamental roles these species have in diet, materials, medicine, and/or spiritual practices... Keystone species may serve a particular culture materially in a host of different ways: as a staple food or a crucial emergency food, in technology, or as an important medicine. As well, such a cultural keystone species may be featured in narratives or have important ceremonial or spiritual roles. It would also likely be highly represented in a culture's language and vocabulary... although the specific role a particular species plays in a culture may vary considerably, its designation as a cultural keystone species lies in its high cultural significance." (p.5).

Used for millennia as conduits in spiritual communication, medicinal aids, emblems of exchange, in recreation, and in some cases as productivity enhancers (Durrant & Thanner, 2003:20-3; Beyer, 2007:1; Babor, Caulkins, Edwards, et al., 2010:3), it has only been over the past 200 years that major changes have come about in the use patterns of “cultural keystone species” or indigenous substances. Previously I discussed how the last 200 hundred years of development has been an era undermined by colonisation, imperialism, urbanisation, industrialisation and modernisation, with various associated values. For the purpose of this chapter I term this pursuit ‘modernist’. This process is in contrast to the life-ways of pre-industrialised agrarian European and developing nations dominated by subsistence living, traditional forms of spirituality, collectivism, reciprocity and indigenous substance use; systems of living considered undeveloped, “primitive” and “tribal” by ‘modern’ systems of development (p.8).

In the previous chapter I also discussed that new perspectives and ideas regarding development, especially those from the alternative development and neo-liberalism perspective, evolved in the latter half of the 20th century (p.12-15). Under these perspectives, “cultural identity and traditional practices [became more] acceptable” (Eade, 2002:ix) and in some areas the use of indigenous substances even comprised aspects of Primary Health Care systems (p.20). However hesitancy remains concerning the use of traditional preparations. This is often because their use is deemed ‘problematic’ to productivity which is seen to be required by modern systems of development (p.12,80).

This chapter expands on that supposed problematic use by investigating five cultural keystone species and describes how modern systems of development have changed their use patterns. Each indigenous substance is prefaced by discussion on the origins, historical context, traditional-use pattern and physiological effects of the traditional preparation. For some of these, evidence of use change was readily available. In other cases very little supporting literature could be located, causing me to draw on related themes from literature to suggest how modern systems of development have caused a use change. Further, although a wide variety of indigenous substances could have been selected for discussion, two criteria were applied. First, over and above medicinal, spiritual and/or religious use, each substance had to also have been used, or continues to
be used, recreationally. Second, some of the indigenous substances had to originate from the South Pacific region, the locus of this study. This second criteria limited the number of substances available for discussion.

The chapter begins by investigating alcohol and coca, two indigenous substances that Courtwright (2001:3) argues are numbered among The Big and Little Three, or “the world’s principal psychoactive resources”. Three South Pacific indigenous substances, kawakawa, betel, and finally, kava are then presented.

This chapter has two purposes. First, it aids in addressing a lack I voiced in the closing section of the previous chapter, namely post-development’s silence to date regarding indigenous substances. Second, this chapter informs the study proper, as an investigation on the cultural importance of the indigenous substance yaqona and its relationship with education as an input to modern systems of development. The present discussion begins by investigating the most common and widely used indigenous substance alcohol.

**ALCOHOL**

**ORIGINS, HISTORICAL CONTEXT AND TRADITIONAL USE**

Of all the traditional preparations, alcohol appears to be the most widely used (Mandelbaum, 1979:14; Jolly, 2009:27) and has the earliest documented history (Durrant & Thakker, 2003:34,64). It is therefore considered the ‘original indigenous substance’ (Patrick, 1952:12-3; Durrant & Thakker, 2003:14-15). The reason for its widespread use, I would suggest, is because alcohol is very easy to produce (de Garine, 2011:139; McGrew, 2011:13; Thomas, 2011:37). Heron (2003:2) comments that, “almost any natural product containing sugar or starch can be turned into beverage alcohol. For centuries in Asia, Africa, South America, and Europe, producers turned fermented fruits or vegetables into beer or wine.” Archeologists date the first intentional fermentation of alcohol back to the Neolithic period, some 10,000 years before the birth of Christ (Patrick, 1952:12-3).

From its earliest times, alcohol has had great religious importance (Mandelbaum, 1979:14; Hanson, 1995:7). In ancient Greece, for instance, fermented beverages were offered to the gods, with Greek mythology understanding that the god Dionysus consumed alcohol as an aphrodisiac, a practice that the Grecians religiously observed during the 4th century bc. In the 5th Century bc, Bacchus, the god of wine, was worshiped in Rome (Nordregen, 2002:90), while the Vikings maintained that a lack of alcohol made the Norse gods angry (Sournia, 1990:6; Hornsey, 2003:263). The early Egyptians believed that a special beer was consumed by the 12 guardian gods who watched over the Osiris shrine (Hornsey, 2003:37), and the Mesopotamians, who considered “intemperance a sign of masculinity” (Hanson, 1995:3) worshiped and made offerings to wine deities (Hornsey, 2003:78). Historical texts excavated from the Hittite era (1400-1200 bc) describe the use of alcohol at the funeral of a person of nobility when “they extinguish the [cremation] fire with ten jugs of beer” (Gurney, 1959:164).

Use of the phytomedicinal properties of alcohol also has a lengthy history (Darby, Ghalioungui, & Grivetti, 1977:534; Insel, Turner, & Ross, 2006:368). The ancient Egyptians added spices to beer to make medicinal preparations (Wilson, 1975:639; Hornsey, 2003:358); in 410 ad, a Latin medical text reported the benefits of a salt and beer mixture (Wilson, 1975:641); in the 10th century the English used hops as a medicinal plant (Wilson, 1975:638; Grieve, 1977:414); during the Crusade era wine formed the basis of a drug concoction used as an anesthetic during post battle surgery (Mitchell, 2004:200); and the consumption of vast quantities of alcohol was believed to be a preventative against the Black Death in the 14th century (Hanson, 1995:8). Hornsey (2003:379-80), in his 700-plus page volume on beer and brewing, reviewed a number of historical writers who reported the medicinal properties of alcohol. The early poet John Taylor (1578 – 1653), for instance, claimed alcohol was a curative for a multitude of diseases and complications from tumors to gout (Holt, 2006:1). While it would be easy to condemn alcohol’s early medicinal use as quackery, some of these uses have been endorsed by modern scientists. For example, they have linked the moderate use of red wine to reduced incidences of cardiovascular disease (German & Walzem, 2000:581-2; Wollin & Jones, 2001:1403).

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13 The presentation style together with the use of some terms in the subheadings has been borrowed from Marshall (1987).
Prior to industrialisation, the consumption of fermented beverages was “regarded an essential part of one’s diet” (Loue, 2003:37) and a “food [item] viewed as an important source of calories” (Durrant & Thakker, 2003:40). Pendergrast (1999:13) reported that in 17th century England, alcohol was drunk in “Falstaffian proportions” – levels that would be considered excessive “by current standards” (Loue, 2003:37). A second reason for such high consumption rates over and above its use as a “food”, was that historically alcohol was often a replacement for, or comprised part of the purification process of water (Willis, 2002:44; Blocker, Fahey, & Tyrell, 2003:21; Insel, Turner, & Ross, 2006:368; Jolly, 2009:39). For example, Philbrick (2007:3) explains, “the notoriously bad quality of the drinking water in [the] seventeenth-century” citing the concerns of the Pilgrims aboard the Mayflower enroute to the New World in 1620. Concern was voiced when the barrels were almost drained and “the slimy bottoms of their water casks” were observed. Additionally, Fremont-Barnes & Noon (2005:27) state that Royal Navy sailors in Nelson’s fleet were issued—

with a gallon of beer every day, a staggering rate of consumption that amounted to ten times the annual national average for civilians. It was considered safer than water, which was stored in barrels for months at a time. Once the supply of beer was exhausted, the men received other forms of alcohol according to a formula that equated 1gal of beer with 1pt of wine or ½ pint of spirits\(^\text{14}\).

When Captain James Cook set sail in the Endeavour in 1768, a journey that would result in the discovery of Aotearoa New Zealand, he carried with him an astounding 4,542 litres of beer and 6000 litres of spirits, and took on a further 11,477 litres of wine at Madira (Cook, 1955:8,613). Additionally, for the non-seafarer of this period, high alcohol consumption rates were not considered problematic, with ingestion levels left to the discretion of the consumer rather than state instituted regulatory measures (Harari & Legge, 2001:39).

The non-problematic use of alcohol as a staple in the diet, especially when the effects of inebriation are factored in, is a difficult concept to comprehend from a contemporary vista. Additionally, Warner (1992:409), in his paper entitled Before there was ‘alcoholism’, states that descriptors suggesting alcohol overuse and abuse are “modern” constructs first appeared in the late 1800s where it was initially “labeled ‘a disease of the will’ that could be cured only by complete abstinence from spirits” (Loue, 2003:38). Davis (2002:90) writes that “stereotypes plague popular and theoretical understandings of alcohol problems”, especially among indigenous societies. Citing the Aboriginal community, a sector of Australian society “perceived as [having] significant” substance abuse problems “similar to those of other indigenous groups, especially Māoris and American Indians” (p.87), Davis argued that prior to European contact, this people group brewed and used alcohol\(^\text{15}\) in a manner that did not disrupt social cohesion (p.90). Gossop (2007:42-3) concurs with this report, adding that it was the heavy consumption patterns of the Europeans, which the natives subsequently mimicked, that led to alcohol-related social disruption and resulted in prohibitions against indigenous alcohol consumption.

Medina-Mora (1998:267-8) reports a similar occurrence among the Mexican Indians. Prior to Colombian contact in the 16th century, this group adhered to strict codes regarding alcohol consumption, and excess that could lead to intoxication was restricted to a small number of religious occasions. One such example was the annual celebration of Izcali, were all members of the community, from children to the elderly, were allowed to freely indulge, and inebriation was encouraged. This regulated form of alcohol use among the indigenous populace “changed from occasional use limited to festivals, to indiscriminate secular use” with the arrival of the Spaniards (p.267).

Although the spiritual and medicinal aspects of alcohol are noteworthy, it is the use of fermented beverages as a “social lubricant” within social systems that has been uniform across all societies (Porter, 1990:x-xi). This has not been limited to the technically advanced ‘modern’ societies of Europe but also within ‘traditional’ tribal communities. For instance the Bantu people of South Africa have been brewing and using a traditional

\(^{14}\) One gallon (1gal) is 4.54 litres and one pint (1pt) is slightly more than half a litre (0.56).

\(^{15}\) “The Corkwood Tree is a tall shrub or small tree found in New South Wales and Queensland. It has a thick corky bark. Indigenous Australians used to make a hole in the tree’s trunk, pour water into it, and then plug the hole. Overnight this would produce a strong liquor. Drinking this liquor apparently produced a ‘stupor’ in the Aborigines, causing them to experience hallucinations.” (Goldberg & Dillon, 2005:11).
beer made from corn, called *Kaffir* or *Bantu beer*, for centuries as part of social interaction (CUS, 1957:116; Steinkraus, 1996:408). Similarly, the Mexican Indians fermented alcohol and used it as part of festival events prior to Spanish contact (Medina-Mora, 1998:267-8). The use of fermented beverages in social systems, or as “agents of hospitality” (Hornsey, 2003:3) reflects a universal trend that continues to this day (also see Porter, 1990:x-xi).

Demossier (2005) makes a number of interesting comments concerning alcohol and identity construction. Explaining “the complex position of wine in France” (p.129), she found that “drinking is often central to French senses of individual identity, beliefs and collective representation (p.130)... [and] despite the modernization of their society, wine remains a ‘cultural expression’” (p.148). Garibaldi & Turner (2004) discuss the general link between traditional preparations and identity within their work on “cultural keystone species”. I will later explain the importance of identity formation to the attainment of development (p.53,61-62). However the point I wish to make here is that even in contemporary culture alcohol continues to play a “cultural keystone” role over and above social facilitation, one that aids identity formulation and continuance.

**PHYSIOLOGICAL EFFECT**

Dr William Butler, physician to James I in the 17th century, professed his “Dr Butler’s Ale” aided brain function and memory (Hornsey, 2003:379-80). This claim, when compared with scientific understanding, would appear to be an exaggeration. Alcohol is categorised as a biphasic, affecting the central nervous system by inhibiting cognition, impairing vision and inducing imbalance (Loue, 2003:26-7; Davison, Neale, & Kring, 2004:363), functionalities that Loup (1994:19) argues are necessary for productivity. Additionally, alcohol impairs “memory, abstracting, problem-solving, perceptual analysis and synthesis, speed of information processing, and efficiency” (Parsons, 1998:954; also see Davison, Neale, & Kring, 2004:363), both immediately following consumption and many hours after cessation, depending on the amount consumed (Jobs, Fiedler, & Lewis, 1990:161; Kelly, Foltin, & Fischman, 1990:142; Sadock & Sadock, 2003:399). Although alcohol and its impacts on productivity were discussed in the previous chapter (see p.10-11), what is clear at this stage is that the literature identifies a point in history when a major change took place concerning the use pattern of alcohol.

**USE CHANGE**

The two examples cited above from South America (altered alcohol use under the conquistadorian form of “socioeconomic development”) and Australia (Aboriginal mimicry of colonial alcohol consumption habits) demonstrate the negative influence that external systems of development can bring to the non-problematic use patterns of an indigenous substance. This is a reoccurring theme throughout this chapter. While many of the latter examples discuss use change in developing settings with strong traditional values, what is of interest here is that major alterations in alcohol use patterns also occurred within the ‘modern’ European cultural setting, a change that contrasts the traditional arena. As previously stated, alcohol had been frequently consumed in large quantities for many centuries as part of the diet in ‘modern’ Europe. Admittedly, alcohol did have enforced periods of prohibition and moderation during this time, often influenced by religious structures and temperance movements (Darby, Ghalioungui, & Grivetti, 1977:58; Porter, 1990:xi-xii). However, it was not until the advent of industrialisation that major change came about (Matza & Morgan, 2003:136).

Industrialisation, a key input in ‘modern’ systems of development, changed traditional alcohol use in three ways. First, it brought with it vastly improved systems of water sanitation. This offered greater levels of protection against water-borne viruses which in turn created a general attitudinal change regarding alcohol consumption levels (Porter, 1990:xi; Iontchev, 1998:184; Goodrich, 2002:236; Nordegren, 2002:32; Willis, 2002:44; Insel, Turner, & Ross, 2006:368, Thomas, 2011:35). Second, industrialisation caused mass urban migration (Pendergrast, 1999:16), increasing patient load in hospitals, where doctors gained new understandings on how the over-consumption of alcohol affected the human body (Sournia, 1990:23). Finally, and most importantly in regards to this study, effective industrialisation required a sober, punctual, reliable, disciplined workforce in order to meet productivity needs. As earlier discussed, productivity was deemed by modernists as a key element (together with economic growth) in bringing about development. With human labour input being a core element in
the productive process (p.10), inebriated employees were considered a threat to industrial growth (Kelly, Foltin, & Fischman, 1990:129; Porter, 1990:xii; Sournia, 1990:139; Courtwright, 2001:178-9; Jolly, 2009:38). This was an influencing factor in the introduction of the Noble Experiment, America’s alcohol prohibition of 1920-1933. As Rumbarger (1989) explains, the “temperance ideology was based both on obsessions concerning the effects of drinking and middle-class fantasies about capitalism” (p.xxii) which advocated that “successful industrialization required national prohibition” (p.xxiv). A spokesperson at the time “declared that national economic prosperity ‘depends in very large part on the intelligence and sobriety of the worker’” (Rumbarger, 1989.175). Regulatory systems regarding the consumption of alcohol during working hours and the sobriety of workers at the commencement of work to ensure productive process and aid modern systems of development initiated change in alcohol use patterns that continue today.

Where alcohol use change was linked to industrialisation and its need for productivity, another indigenous substance, coca, underwent quite a different use change.

**Coca**

**Origins, Historical Context and Traditional Use**

For centuries, the Indians of the Peruvian and Bolivian Andes have chewed coca leaves plucked directly from the *Erythroxylum* plant, a shrub that grows in the mountainous regions (Figure 3.1) (Johnston, 1859:118-9; McElroy & Townsend, 1989:189; Cherry, 2002:59). Both the leaf and plant are highly sacred. The leaves have been chewed for generations in religious ceremonies (Brecher, 1972:269), as part of socialisation (Johnston, 1859:225-6; Blejer-Prieto, 1965:700-1; McElroy & Townsend, 1989:190; Cherry, 2002:59), by agropastoral workers as a labour enhancer (Cassman, Cartmell, & Belmonte, 2003:157), and used reciprocally and economically (Cassman, Cartmell, & Belmonte, 2003:149-51). Spedding (2004:52) stated that although coca is still widely chewed and continues to form an integral part of most Bolivian social gatherings, there is never pressure to indulge. She contrasts this with alcohol within the same cultural setting. She describes the pressure and obligation frequently imposed upon participants at festivities where the beverage is present, an environment where deep inebriation is encouraged.

![Figure 3.1](source:Cocagrowers.org)

Medicinally the leaves are chewed as a dietary supplement, for anti-nausea purposes, as a curative for irritability, asthma and colic, and as a combatant to the symptoms of hunger and altitude sickness (Blejer-Prieto, 1965:702; McElroy & Townsend, 1989:190; Cassman, Cartmell, & Belmonte, 2003:151). Johann Jakob von Tschudi, the famous Swiss explorer and naturalist who visited Peru in 1838 stated, “at fourteen thousand feet above the level of the sea, I drank always, before going out to hunt, a strong infusion of coca leaves. I could then, during the whole day, climb the heights and follow the swift-footed wild animals, without experiencing any difficulty” (cited in Johnston, 1859:128).
PHYSIOLOGICAL EFFECT
Although von Tschudi and others describe coca as having a stimulant effect, this reportedly includes feelings of tranquil euphoria, bodily warmth that combats cold and appetite suppression (Johnston, 1859:119-20; Blejer-Prieto, 1965:701; McElroy & Townsend, 1989:190-1; McKenzie, 2002:n/a; Jolly, 2009:56). Additionally, academics argue that the active ingredients within coca leaves are non-addictive and chewers do not manifest withdrawal when supply ceases (Brecher, 1972:269; McElroy & Townsend, 1989:190; Spedding, 2004:55). For the uninformed, such comments can be hard to comprehend. This is often due to a misconception propagated by a number of foreign governments who have categorised coca leaves alongside cocaine and heroin (Spedding, 2004:61). While cocaine is produced from coca, Spedding (2004:61) categorically states that, “Coca is not cocaine… coca does not have the same effects as snorting cocaine… [or] smoking crack.”

USE CHANGE
Shortly after the Spanish landed in South America in 1532, they enforced a prohibition on the use of coca, attributing its stimulant properties to “the devil” (Johnston, 1859:129) and its use an impediment to the advancement of Catholicism (Durrant & Thakker, 2003:73). Although the prohibition was officiated in 1567 by a decree handed down from the Spanish Catholic Church (Johnston, 1859:29; Blejer-Prieto, 1965:701), the conquistadors quickly realised the substance could be exploited as a productivity aid (Brecher, 1972:269) and therefore ignored their own edict (Durrant & Thakker, 2003:73). For example, the Incan slaves, forced to work long hours in “unimaginably difficult conditions” at altitude in the cold tin and silver mines, were encouraged to use the traditional substance to induce warmth (Brecher, 1972:269; McElroy & Townsend, 1989:190; McKenzie, 2002:n/a; Bradburd & Jankowiak, 2003a:22). Blejer-Prieto (1965:701) states that due to “the effects of the coca leaf, the Indians worked harder, longer, and with less food”.

With the exception of the conquistadors’ initial hesitation regarding coca, the use of the substance was considered non-problematic until the 1800s when European pharmacologists first isolated the active ingredient within the leaf and produced cocaine, the addictive local anesthetic and euphoric drug (Brecher, 1972:267; Jolly, 2009:55). This rapidly led to the abuse of a coca derivative and, as previously stated, a misinterpretation regarding the effect and use of coca leaf in its natural state (McElroy & Townsend, 1989:189-90). The manufacture of cocaine increased the demand for coca leaf, an opportunity enthusiastically embraced by financially struggling rural farmers who also wished to be participants in a capitalist process. However, by the 1970s coca farming lost much of its financial benefits and appeal, as peasant farmers were forced to deal with abusive and exploitative “drug lords, paramilitary units and revolutionary groups [who] weakened traditional ties to the land” (Cherry, 2002:60).

INDIGENOUS SUBSTANCES OF THE SOUTH PACIFIC
The previous sections investigated two of the more common substances that Courtwright (2001) categorised as part of the “big three” (p.9) and “little three” (p.31) – these being most common and widely used indigenous substances. Upon concluding his investigation, Courtwright (2001:53-4) asks, why did some substances “become global products while others… [such as] kava drinking remain largely confined to the Pacific Islands… [along with] betel chewing”? Courtwright cites two key reasons. The first is that historically, for a substance to be embraced at a global level, it must have appealed to European traders, seafarers, and colonisers for medicinal, trade or recreational purposes as it was these people that possessed the means to distribute favorable substances during the 17th to 20th centuries. The second reason was taste. He stated that kava was considered to have a chalky, musty flavour and betel an “acrid” taste (Durrant & Thakker, 2003:94). In the following sections I will examine betel and kava, preceded by two Aotearoa New Zealand indigenous substances, kawakawa and tutu. In the case of kava, this examination will focus on the broader physiological effects in geographical areas outside Fiji. Yaqona (kava) use in Fiji will be discussed in Chapter 5. These sections will also include comments linking substance use with ‘modern’ systems of development.
CHAPTER THREE: Indigenous Substances

**KAWAKAWA**

**ORIGINS, HISTORICAL CONTEXT AND TRADITIONAL USE**

The use of traditional substances for medicinal purposes was widespread among Māori, the indigenous peoples of Aotearoa, prior to colonial contact in the late 1700s (Brooker, Cambie, & Cooper, 1981:14-19; Beattie, 1994:82-87). Joseph Crocome (1811-1874), an experienced medical practitioner and graduate of the London Royal College of Surgeons who worked extensively throughout Aotearoa’s lower South Island from 1831 until his death, recognised the validity of these traditional preparations from a curative perspective. Fulton (1922:7-10) reports that Crocome frequently, and without hesitation, turned to these medicinal substances when his own Western stocks were low in order to treat a wide variety of sicknesses and life-threatening injuries.

In terms of the use of traditional substances by Māori for purely recreational purposes, very little comment has been published on the topic, and what has is contentious among the few scholars who have authority to comment. For instance, McGowan (2000; 2009), an expert in Rongoa Māori (traditional Māori medicine), commented that this is a subject that he has discussed on numerous occasions with komatua (Māori elders) (pers. comm, March 7, 2008). He stated that although hallucinogenics were available, notably from several species of native mushroom (psilocybin), “Māori did not use [any] plant as a recreational substance in pre-European Māori society”.

In contrast, Bock (2000:176-7) details the use of kawakawa or Māori kava (Macropiper excelsum) by the Aotearoa indigenents, arguing that the plant was used not only medicinally, but also recreationally. Botanically, kawakawa, a leafy shrub with tiny berries clustered on stick-like spikes which grows to almost six meters tall (Figure 3.2) (Byant, 1999:553). It is a close relation of kava (Brooker, Cambie, & Cooper, 1981:77; Brunton, 1989:21), the traditional soporific of the Pacific islands which will be discussed at length shortly. This botanical and visual similarity is the reason a number of scholars argue Māori, who arrived in Aotearoa around the 12th century from the Pacific Islands, named the plant kawakawa, or kavakava in some indigenous dialects, and attributed enormous sacred significance to it (Taylor, 1848:xii; Lester, 1941:100; Singh, 1981:61-2; Bock, 2000:175). Similarities between kawakawa and kava – Bock (2000:176-7) suggests – would naturally have led to its recreational use. Taylor wrote in 1848 (p.100) that kawakawa was consumed as “cava” when Māori first arrived in Aotearoa. Further, it is believed they gave place names (such as Kawaranga near Thames) to reflected their meeting together and the drinking of kawakawa, mirroring their traditional consumption of kava prior to sailing south to Aotearoa. Others though argue that the roots of the kawakawa cannot be prepared and consumed in the same manner as kava (Dieffenbach, 1843:426; Goldie, 1905:72; Lester, 1941:100).

![Kawakawa leaves with small spikes](Source: Riley, 1994:99)

16 Anderson (2000:393) suggests that the Māori place names of Parikawakawa and Te Kawakawa are also linked to the pre-migrational use of kava.
Reverend Richard Taylor (1805-1873) (n/d:221), a missionary to Aotearoa and prolific writer regarding early Māori, recorded that the chewing of substances among the indigenents for pleasure was part of “general custom”, a practice that included kawakawa. Similarly, three additional early-New Zealand writers also present observations on the chewing of a wide variety of substances for pleasure by Māori, with one stating that their “mouths are almost always going, whether at work or at play: if they have no news to tell... they will chew” (Yate, 1970:110; also see Wade, 1842:58; Beattie, 1994:499).

Riley (1994:195) commented that Māori used kawakawa as part of acknowledging “the life cycle from birth to death”. Sprigs of kawakawa were kept close during intercourse to invoke blessing and were used during every significant ceremony, from the delivery of a child, to anointing new houses, canoes, food and conflict pursuits, and as well as being “a symbol of mourning... carried at funerals” (Riley, 1994:195)17. Additionally, the potent leaves and the fruit were used medicinally as a curative for a wide variety of injuries, digestive complaints, in the management of pain, and as a stimulant, both motivationally and sexually (Taylor, 1848:24,83; Goldie, 1905:59,67,72,85,118; Faulkner, 1958:223; Brooker, Cambie, & Cooper, 1981:77-8; Beattie, 1994:485; Bock, 2000:176; Moon & Kereopa, 2004:156-7). Subsequent pharmacological “analysis supports much of this usage” (Brabyn, 2003:n/a) with a New Zealand-based company recently manufacturing several different products from the plant including a “1st Aid” gel, “Anti-septic balm”, “Anti-fungal cream” and decongestant (Earth Energies NZ, 2011).

**PHYSIOLOGICAL EFFECT**

The physiological effects of kawakawa as part of recreational use are highly subjective. This is because very little material exists on this topic and, as has already been discussed, most academics are adamant that kawakawa was not used in a recreational manner. Therefore, to discuss the physiological effects of kawakawa, this section will also include limited discussion on use patterns to support effect arguments.

As stated above, commentators argue that Māori would have used kawakawa in a similar manner to kava, use that included the chewing of the substance. When chewed, kava is extremely astringent, causing a burning sensation (Baessler, 1895:247-8; Titcomb, 1948:118), although as numbness sets in, this subsides and would explain why Māori also used kawakawa to combat toothache (Neil, 1889:293; Goldie, 1905:118). This would suggest that in order to gain an appreciation of the psychoactive effects of kawakawa one simply needs to understand the anesthetic soporific relaxant effects of kava, a theme that will be discussed later in the chapter.

Bock (2000:176-7) adds another perspective concerning the possible physiological effects of kawakawa. He draws on the work of Shulgin (1966:381) and Van Gils & Cox (1994:124) who established that the seeds of nutmeg contain myristicin, a chemical also contained in kawakawa, and one capable of causing psychoactive effects in approximately 60% of its users (Bock, 2000:176-7; Beyer, 2007:3). The effects experienced from the consumption of nutmeg seeds are described as mildly sedative and calming (Van Gils & Cox, 1994:123). Stafford (2005:164) adds that “when consumed in high doses” – as in several teaspoons – nutmeg “can bring on an intense hallucinogenic high”. Therefore, Bock argues many Māori would have experienced this psychoactive attribute from kawakawa ingestion and would therefore have utilised the substance for pleasure.

**USE CHANGE**

Brooker, Cambie & Cooper (1981:16,18), drawing on the writings of authoritative colonial commentators, argue that the early period of colonisation generated confusion among Māori regarding the use of their indigenous substances. On one hand the missionaries – believed by Māori to be the mouthpiece of the Creator – dissuaded traditional forms of cultural practice and spiritual communication and medicinal use while extolling the virtues of modern European medicines (McGowan, 2000:17-19). On the other, Māori understood that to pursue these ‘modern’ systems would mean turning their backs on familiar cultural practices that had created and influenced life-ways for generations.

17 Overall kawakawa’s contemporary use is limited to selected ceremonial purposes. For instance the leaves were worn by women as a head adornment and a mark of respect during the funeral of the late Māori Queen, Te Arikinui Dame Te Atairangikaahu, in August 2006.
Academics argue that it was during this period of confusion, further complicated by the introduction of The Tohunga Suppression Act of 1907, that kawakawa disappeared as part of medicinal and spiritual use patterns and was virtually eliminated from ceremonial systems (Brooker, Cambie, & Cooper, 1981:17; Bock, 2000:178, McGowan, 2000:11). The Tohunga Suppression Act had its foundations in the Criminal Code Act of 1893. This sought to extinguish tohunga (traditional priests and medicine men) practices, including their use of indigenous plants and substances. The colonial authorities and missionaries believed tohunga did little more than reinforce superstitious gullibility and incite a “reversion to paganism” among Māori (Lange, 1999:247; also see p.242,249-250,281-2). This was followed by the Quackery Prevention Act (1908). According to Lange (1999:247), the Quackery Prevention Act was intended to quell the medical practices of “Pakeha [people of European descent] charlatans” who had been accused of being “even more reprehensible than tohunga”. He adds that a reduction in activity by both tohunga and “Pakeha charlatans” was welcomed by the colonial administrators who deemed this a necessary factor in bringing about modern systems of development such as health reform (p.247).

Beattie (1994:485) commented that the introduction of the Tohunga Suppression Act, reinforced by a number of successful prosecutions (Lange, 1999:250-3), was the impetus for the loss of a large quantity of traditional Māori knowledge. Durie (2003:51) explains this as a loss of “Māori methodologies and the legitimacy of Māori knowledge in respect of healing, the environment, the arts, and the links between the spiritual and the secular – te kauae runga and te kauae raro” 18. I would argue that this loss also extended to the use of indigenous substances for recreational purposes.

BETEL

ORIGINS, HISTORICAL CONTEXT AND TRADITIONAL USE

According to Burton-Bradley (1966:744) the chewing of betel “has persisted since earliest recorded time, and most certainly existed even before this”. The explorer Herodotus described betel in 340bc, although Marco Polo was the first European to document betel chewing in India in 1298 (Raghavan & Baruah, 1958:316-7). Betelnut, roughly the size and shape of a hen’s egg, has a reddish-yellow husk-like shell with a fleshy center and hangs in bunches from vine like extensions from the core of the areca palm tree (Areca catechu). The palm can grow as high as 30 metres on a very slim trunk and thrives throughout South East Asia, including India, Pakistan, Malaysia, and pockets of the Western Pacific and Papua New Guinea (Raghavan & Baruah, 1958:316-7; Nelson & Heischober, 1999:239). Betelnuts are chewed with betel vine leaves and “slack lime obtained from shells, coral or mountain lime” (Burton-Bradley, 1966:744) (Figure 3.3). The lime is necessary as a reactant, causing the fleshy centre of the nut or the leaf to release the active ingredient arecoline, an alkaloid that affects the central nervous system (Riley, 1997:197; Chu, 2001:231-2; Ghelardini, Galeottin, Lelli, et al., 2001:383). The reddish-coloured juice produced from chewing betel is spat out with the active ingredients being absorbed through the oral tissue, although naturally small quantities of the juice are swallowed (Burton-Bradley, 1966:744).

Figure 3.3
Whole and half (cut) betelnuts, lime (in plastic bag) and betel leaf.
(Source: Author, 2008)

18 In 2009 the New Zealand current affairs programme Campbell Live (May 11) reported renewed interest in the phytomedicinal properties of kawakawa and several other traditional Māori preparations suggesting an indigenous substance renaissance.
The contemporary use of betel is widespread with Atal, Dhar and Singh (1975:265) estimating in the 1970s that over one-third of the world’s population ‘chewed’ this indigenous substance. However, for the purpose of this study, and specifically this section which focuses on the Southern Pacific region, comment regarding the chewing of betel and its related traditional systems will be confined to Papua New Guinea (PNG). In PNG, betel, also called *buai*, is considered a “national cultural symbol” (Foster, 2002:20, also see p.31-2) and is often referred to as *Papua bia* (Papuan beer) (Lepowsky, 1982:335; Connell, 1984:57).

Betelnut chewing has a lengthy history in the coastal areas of PNG and has been used for generations as part of religious and spiritual observation with many practices still surviving today (Burton-Bradley, 1966:745-6). Lepowsky (1982:337) details the use of betel by sorcerers. Necromancers are believed to posses the power to imbue betelnut with curses in order to induce sickness or death, or alternatively charm objects by spraying them with betel saliva which are then used to lure a partner (Burton-Bradley, 1966:745-6). Additionally, sorcerers offer the nuts to the dead and to spirits during funerals and religious ceremonies and betel is believed to possess powers capable of protecting loved ones, especially children (Lepowsky, 1982:338). Betel juice and lime are also mixed together to create a cosmetic that is worn at ceremonies (Burton-Bradley, 1966:746). Further, chewers will temporarily abstain from betel consumption as an act of respect following a death, or during a period of special significance (Pearson-Chinnery, 1922:25).

Betelnut is also used traditionally for medicinal purposes. The juice of the nut contains antihelminthic, a chemical that aids in the elimination of intestinal worms and stomach parasites in both humans and animals (Lepowsky, 1982:335; Riley, 1997:197; Nelson & Heischober, 1999:238). The leaves contain a mild analgesic and antiseptic healing agent and are applied to wounds and abscesses, while pregnant women chew the nut to alleviate morning sickness (Grieve, 1977:96; Riley, 1997:197; Nelson & Heischober, 1999:241). It is also used as a breath sweetener (Chu, 2001:231-3).

While some espouse the medicinal benefits of betel, others report health concerns. Burton-Bradley, writing in the 1960s, expressed a concern that the chewing of the substance was possibly linked to oral cancer, a connection since confirmed by contemporary researchers (Fu, Kan, & Liu, 2001:135-6; Liang, Kuo, & Wang, 2002:147; Warnakulasuriya, Trivedy, & Peters, 2002:799-80). For instance Lu, Yen, Ho, *et al.* (1996:246) report that 58.4% of Taiwanese betel users suffer some form of oral malignancy as a result of their substance use. Additionally, contemporary researchers warn against the chewing of betel by pregnant women, arguing that this increases the risk of “spontaneous abortion” and fetal abnormality, while the swallowing of the juice can incite “symptoms such as headache, anorexia, nausea, muscle pain or conscious disturbance” (Fu, Kan, & Liu, 2001:135-6).

Both historically and contemporarily, betel has played a central role in ceremonial and social systems (Pearson-Chinnery, 1922:25; Nelson & Heischober, 1999:239). Betel use and its significance comprised cultural learning and is taught from childhood. Most begin using the indigenous substance during adolescence (Nelson & Heischober, 1999:242). This “national cultural symbol” has great strength “as a facilitator of peaceful social relations” (Lepowsky, 1982:340). For instance, during warfare betelnuts were used to broker an interlude in conflict in which combatants would chew together before hostilities were resumed (Pearson-Chinnery, 1922:25). Betel is also consumed by negotiating parties to acknowledge agreements at the conclusion of business deals (Nelson & Heischober, 1999:239). Although the nuts have commercial value as a cash crop, their true value is considered from a cultural perspective rather than as a commodity (Lepowsky, 1982:338; Connell, 1984:57).

The consumption of betel is seldom an individual pursuit, rather it is an activity done with others signifying bonds of friendship and trust, with travellers frequently taking a “generous supply” (Lepowsky, 1982:339) with them as an offering to hosts (also see Schwimmer, 1982:322; Nelson & Heischober, 1999:239). Additionally, Lepowsky (1982:340) described the use of limesticks, used to measure lime from special receptacles during the preparation of the betel for chewing. These form part of the chewing accessories which are often accorded sacredness (Burton-Bradley, 1966:744-5). At ceremonies and gatherings, limesticks are rhythmically tapped
against the pots as an accompaniment to the singing of traditional songs. The use of betel is not confined to the traditional setting and has recently been embraced within the contemporary business arena, an idea I will return to shortly.

**PHYSIOLOGICAL EFFECT**

The physiological effects of betel have been widely recorded (Burton-Bradley, 1966:744). For the first time user, betel chewing causes feelings of nausea, vertigo, dizziness and diaphoresis similar to that experienced by a novice cigarette smoker (Burton-Bradley, 1966:745). The reddish juice produced when betel is chewed contains psychoactive chemicals that impact the central nervous system and stimulate the alpha and beta waves in the brain (Chu, 2001:231-3). This produces a feeling of contented well-being, increased sociability and humour, reduced thirst, hunger and fatigue, and motivates work desirability (Burton-Bradley, 1966:744-6; Lepowsky, 1982:337; Riley, 1997:197). Researchers suggest that heavy betel consumption does not produce aggressive behaviour (Schwimmer, 1982:323) and that when used in moderation is “fairly harmless” (Burton-Bradley, 1966:746) and does not appear to impact socio-cultural structures (Schieffelin, 1982:49). Hirsch (1990:25) adds that the physiological effects of betel are vastly different to that of alcohol, which is recognised as being socially disruptive in PNG.

On the other hand, Chu (2001:234) argues that betel chewing is “mild to moderate[ly]” addictive, with withdrawal symptoms that include agitation, lethargy, depression, paranoia and a difficulty with concentration. However, Burton-Bradley (1996:744) asserts that betel addiction appears to only affect those who have personalities predisposed to habituation. He adds that people who chew betel as an aid to their work come to rely on it and if one runs out, “he is compelled to down tools and proceed to the market to replenish his stocks. He runs the risk of losing his job, and often does.” (p.745)

While betel is believed to increase motivation and work desirability, in 1982 Schwimmer espoused a different opinion. He argued that betel chewing caused “an apparent forgetfulness [that] leads to a state of mild benevolence as well as imaginative awareness slightly freer than otherwise” (p.322). No clinical assessments were administered to verify this claim. It wasn’t until 1996 clinicians conducted what is believed to be the first cognitive examination of betel chewers, in order to test a hypothesis that chewing was a factor in workplace accidents. 28 “experienced betel-chewing [heavy] vehicle operators” were tested. The results established that “chewing betelnut did not facilitate reaction time, neither did it impair reaction time… or short-term memory” (Wyatt, 1996:460). Although an increase in heart rate was noted, clinicians believed that this potentially indicated an improved “state of arousal [aiding] alertness” and therefore deduced betel chewing was not a contributory to workplace accidents, although it was acknowledged that further testing was required (Wyatt, 1996:461-2; Chu, 2001:231-2). These tests tended to support the long-held notion that betel aids productivity and worker output, although Burton-Bradley would suggest that such productivity can be interrupted when users leave their workplace seeking fresh supplies.

**USE CHANGE**

Unlike the substances previously discussed, the use of betel as a traditional spiritual, ceremonial, medicinal and social substance has changed very little. Additionally, medical evidence that argued chewing increases levels of oral cancer has mostly been ignored (Conell, 1984:58), which the British Medical Journal (Warnakulasuriya, Trivedy, & Peters, 2002:799-80) reports is because betel is so “culturally bound and… an integral aspect” of several indigenous societies that it comprises “part of their identity”. Where use change has occurred though is in the modern work environment.

Starting in the 1980s, posters began appearing in government offices warning consumers that “The chewing of betel nut in working hours is strictly prohibited: Failure to observe this rule could result in instant dismissal” (Foster, 2002:33). Similar prohibitions were also reported at a number of mine and building sites (pers.comm, Banks, 2009, March 10; Richards, 2010, Jan. 17). This is interesting, considering reports that betel has the potential to increase productivity. In an attempt to identify motives and reasons behind these prohibitions, a
In 2002 Foster stated that the chewing of the nut created an “obstacle to the achievement of technically and economically efficient self rule” (p.33). Unfortunately, he did not expand on or justify this comment. In October 2007 police officers were warned that they were to stop chewing betel while on duty as the practice was “contrary to good behavioural conduct” (Per, 2007:10). No further reasons or clarification regarding how chewing was “contrary to [such] conduct” were given, although interestingly the Police Commander who had issued the regulation did acknowledge that each indiscretion would be dealt with on a case-by-case basis.

It was not until August 2008, and after a report that appeared in The National newspaper, that a work-place ban on chewing betel appeared to have reasoned merit and unambiguous application. The head of Human Resources at Telikom PNG (the national telecommunications provider) was reported as having warned staff that “employee[s] found chewing betelnut during working hours and on company premises” would be sacked, as the practice promoted a “high unproductive culture… high incidents of absenteeism, [a] lack of punctuality for duties, and poor grooming standards including betelnut stained teeth” (Korugl, 2007:6). This aligns with earlier comments about modernisation and how indigenous substances are deemed threats to productivity (p.10). In much the same way, “poor grooming standards” hint at colonial attitudes associated with the ‘aesthetics of modernity’, or are seen as observable demonstrations of ‘primitive-ness’ in contrast to ‘proper’ modern civilised behaviour19. Supposedly, red teeth are not ‘proper’ or a demonstration of aesthetic modernity such as the ‘gleaming white dentures’ of the developed European. As Howitt (1865:286-7) and Speiser (1996:64) allude, “spitting” is deemed a ‘primitive’ aesthetic demonstration associated with a lack of “cleanliness” among “rude savages” – practices contrary to ‘modern’ systems of development.

Several weeks after the Telikom PNG article appeared I made inquiries with the telecommunications company seeking more details on the ban. After what appeared to be a large amount of hesitation, I was finally advised that the HR Manager had “left the company” and no one was available to comment on his leaving or the directive (pers.comm., 2008, July 4). Shortly after this I discussed betel bans, and more specifically the Telikom PNG situation, with a Master’s student and former PNG school teacher attending a New Zealand university. They appeared amused and replied in a ‘knowing’ manner that the former Telikom HR Manager “must have upset some [betel chewers] at the top” and had therefore been ‘forced’ to leave the company (IQ001). They added that betel bans and prohibitions were forever being instituted in PNG, although almost all were ignored. The informant stated that teachers in the schools they had taught at were forever being warned to desist chewing, especially during recesses. The practice of betel chewing is a collectivist activity, they explained, and this caused teachers to arrive, or return late to the classroom, or was the reason some teachers left their students unattended during the teaching period. The informant concluded, “See, everyone is doing it including the people making the regulations. It’s part of our culture, so I don’t know if they can ever stop it.”

19 For examples of ‘aesthetics of modernity’ or observable demonstrations of ‘primitive-ness’ in contrast to ‘proper’ modern civilised behaviour, its is worth consulting academics such as Firth (1997:262) who argued that ethnocentrism during the colonial period propagated the notion that the “natives” were less intelligent – as was demonstrated by behaviour such as the non-wearing of shoes. Alatas (1977:52-3) suggested that ‘native’ traits are aesthetically demonstrated through activities such as not closing doors (after opening them), not returning borrowed items and mixed gender washing in the river – ‘primitive’ activities that (apparently) ‘modern civilised’ people would never consider doing. Watt (1986) presents further examples of the ‘aesthetics of modernity’ in which “the heathens…[go about] naked” (p.78) and the ‘native’ women do not wear “girdles” (p.197), this being in contrast to the colonial “in his clean white suit” who – together with his ladies – portrayed a “picturesque group” (p.97). Brigham (1908) adds, their “nuts are of the rudest construction hardly as neatly built as a skilled woodsman would build his temporary camp… As the people become more civilized…the houses share in the change” aesthetically demonstrated through details such as a “definite doorway” (p.62). Concerning the aesthetics of modernity and indigenous substance betel, Kasaipwalova (1987:69-77) presents a sad yet humorous, situationally ironic, PNG English stylised story written for secondary school students and reproduced in an anthropology text that is worth consulting.
When the informant was asked whether the PNG Ministry of Education (MoE) had issued a policy regarding betel chewing during work hours they replied “no, coz even the people at the top of the Ministry do it”. These comments were also substantiated by a senior academic (Associate Professor: IQ002) within PNG, although when I approached senior staff at the PNG MoE for comment, I was continuously stone-walled and referred from one staff member to another. After several days of this it became clear that MoE staff simply did not want to discuss this issue.

In the next section I discuss kava, which has similarities with betel, both through cultural embeddedness and as a substance deemed problematic to productivity. In a similar manner to betel, kava remains in use despite the modern systems of development that deem it unproductive.

**KAVA**

The final indigenous substance to be presented is kava, “the most important psychoactive plant in Oceania” (Beyer, 2007:4). As stated earlier, this will discuss geographical areas other than Fiji. Because the wider scope of the study is focused on Fiji, detailed discussion on *yaqona* (kava) in Fiji will be presented in Chapter 5.

**ORIGINS, HISTORICAL CONTEXT AND TRADITIONAL USE**

*Kava* is a leafy shrub with approximately six to ten segmented and noded branches protruding from a central basal stump (Figure 3.4). It can grow up to three metres tall and is asexual, meaning that it must be propagated manually (Singh, 2004c:29). *Kava* was well known across a large expanse of the southern Pacific, from Papua New Guinea (PNG) in the west, to Hawaii (Lebot, Merlin, & Lindstrom, 1997:1; Marshall, 2004:201) in the east – with the exception of Australia and New Zealand – when it first received its botanical name *Piper methysticum* f. from Captain James Cook’s naturalist (Steinmetz, 1960:3; Singh & Blumenthal, 1997:36). Lebot, Merlin, and Lindstrom’s (1992:50) investigation into the geographical distribution of *Piper methysticum* suggests that all kava cultivars originated from a few primary sources in northern Vanuatu. Crowley (1994:88,97) adds to this theory and presents two useful maps which illustrate the “distribution of kava-drinking areas in the Pacific [and] suggested routes for the introduction of kava on the basis of linguistic and non-linguistic evidence”. These maps are presented in Appendix B. This offers a contrasting explanation to the mythological and cultural understandings of kava’s arrival in each traditional locality (Lindstrom, 2004:12-14).

Figure 3.4
*Kava* (*Piper methysticum f.*) at three years of age.
(Source: Author) (Source: Singh, 2004:61)

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20 “The first Polynesian migrants in New Zealand probably also brought kava with them, though it failed to grow in the colder climate. However, the plant *kawakawa* of the related *Macropiper excelsum* [see p.29 this study] from a different genesis (which the Māori used for medicinal purposes) is found there. The word kawa in Māori is also used to mean ‘marae protocol’, which would accord with kava having been previously used in a ceremonial context as we find in Polynesia today.” (Crowley, 1994:95)
The term *kava* also applies to the consumptive beverage made by pounding and straining the roots and/or lower basal stem through water. A more detailed description (which includes photographs) of the cultivation, harvesting, mixing, and consumption of the beverage can be found in my earlier study (Aporosa, 2008:31-5). What is important in this section is the mythical, spiritual and cultural value attributed to *kava* by most indigenous societies in the southern Pacific area. In this area *kava* is believed to be imbued with *mana*\(^{21}\), or spiritual powers, and is recognised as a “plant of the gods” (Merlin & Raynor, 2005:241). As with previous indigenous substances, there will also be a discussion on *kava*’s physiological effect and use changes influenced by ‘modern’ systems of development.

In Papua New Guinea, where it is called *kéu*, *káu*, *tigwa* or *gámada*, *kava* has grown and been used traditionally for centuries (Haddon, 1916:146,147; Lebot, Merlin, & Lindstrom, 1997:1) – although it holds a secondary position to betelnut (Singh & Blumenthal, 1997:42). Hannon (1916:148) reports that *kéu* or *káu* was commonly used to appease spirits who were then expected to assist in a bountiful harvest or as an instrument of peace. Warring tribes would come together, consume the beverage and sprinkle the substance over one another, declaring that all conflict had ceased.

There is some conjecture regarding the traditional use of *kava*, known as *kava qwua*, in the Solomon Islands. Lebot, Merlin, & Lindstrom (1997:32,213) report that *kava qwua* was introduced following colonial contact, whereas Fox (1924) – who researched burial practices – received reports that prior to colonial contact *kava qwua* was used and consumed traditionally (p.216-7). Fox writes that libations were poured out as an offering during the *rihumae*, a ceremony of remembrance held approximately six months following a death. He adds that when he enquired about contemporary *kava qwua* use, he was informed that it had ceased with the coming of betel (p.216-7).

In Pohnpei (formerly known as Ponape), an island within the Federated States of Micronesia, the plant is commonly referred to as *sakau* (Petersen, 1995:36). In a highly detailed study of the indigenous substance, Balick & Lee (2009:165) report that the plant and its associated practices are so intricately interwoven with Pohnpeian society that “no palpable boundary [exists] between culture and plant”. They added that *sakau* stems, leaves and roots are used medicinally both physiologically and supernaturally (p.175). *Sakau* is presented and consumed as part of acknowledging authority, honouring guests, seeking forgiveness, aiding birth celebrations and funerals, and in spiritual communication (McGrath, 1973:66; Hanlon, 1988:114; Petersen, 1995:34,49; Merlin & Raynor, 2005:243-4). This is believed to only be possible due to the spiritual attributes, or *mana*-related properties, of *sakau* (Balick & Lee, 2009:174-5). These characteristics also apply to *sakau*’s power as a tool of mediation and social unity. Balick & Lee (2002:97) state that it is an emblem that “holds the culture together in the most difficult of times” (Poyer, 1990:140).

*Kava* is known in the northern regions of Vanuatu as *namaloku* and *nekava* in the south, and has been an integral part of the social and cultural system for centuries (Lebot & Cabalion, 1988:21-2). *Niv* Vanuatu believe *kava* possess *mana* which is then transferred internally and externally as one drinks or mixes the beverage, ensuring ongoing health and prosperity to the consumer and the land (Brunton, 1989:111). Each afternoon, as they have done for centuries, men gather at designated structures or areas called *nakamaal* (Gregory, Gregory, & Peck, 1981:300; Lindstrom, 1987:99), where *kava* comprises the centrepiece for planning, conflict resolution, the discussion of upcoming events and swapping news, outworking *kastom* and a “symbol of national identity” (Young, 1995:61; also see Lindstrom, 1990:376,378-9; Lipp, 1998:n/a). Lindstrom (1987:99,102) described these social interactions as non-consumer and non-economic forms of exchange, where adolescent boys also learn *kastom*, hierarchy and notions of masculinity in settings that are strictly off-limits to females. Brunton (1989:106-7) adds that although women are forbidden at the *nakamaal*, they nevertheless play a vital behind-the-scenes role, both spiritually and practically, that is understood to ‘complete’ the activities of the men. In contemporary

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21 According to Tomlinson (2006:174), this word defies a simplistic meaning. However, “‘mana’ in Fijian is often best translated into English as ‘work’, ‘succeed’, ‘achieve’, or the like – that is, as a verb denoting effective action. Like ‘work’, ‘mana’ is a verb that can be used nominally or adjectivally without altering its form. It can also be reduplicated and given affixes (e.g., vakamanamanauka, meaning ‘make mana’ or ‘make effective’) and used in conjunction with other words.” (Also see Capell, 1938).

22 The prefix *ni* literally means ‘the people of’.
ni Vanuatu culture the nakamal has become the site of business negotiations and networking. The Nakamal of the Malvatumauri (National Council of Chiefs), which is situated next to Parliament Buildings in Port Vila, is considered Vanuatu’s leading environment for this type of activity, “the place where people do more business than at the office” (IQ003).

Holmes (1967:107) states that in Samoa “formal or informal meetings of chiefs wouldn’t be complete without the distribution of... kava”, or ‘ava as it is commonly referred to, and that all discussion is preceded by an ‘ava ceremony (Amituana‘i, 1986:36). Unlike Vanuatu, Sāmoan women are not forbidden from drinking the substance and will often engage in female-only consumption sessions (Holmes, 1967:110). ‘Ava, in both its raw and beverage form, is steeped in Sāmoan mythology and linked to traditional spiritual practices, warfare and social and political structures. ‘Ava was consumed by warriors prior to battle and chiefs during the conflict to encourage the gods to bring success (Holmes, 1967:110). The substance was, and continues to be, used to bless labour related pursuits such as the building of a house or canoe, and as part of the welcoming of and reciprocity between host and guest (Marshall, 1987:22-28). Additionally ‘ava plays a significant role in tatau, the traditional tattooing practice marking a youth’s step from adolescence to manhood (Tapu, 1986:166-7). Throughout the preparation and consumption of ‘ava, the ancestral gods are frequently acknowledged. For example, just prior to the consumption of every cup of ‘ava consumers pour a small amount of the beverage onto the ground in front of them and pronounce “Manua” (good fortune) as a libation to the spirits (Kallen, 1982:42; also see Holmes, 1967:112,114,116).

Unlike Sāmoa, there is very little contemporary use of kava in Rarotonga (Cook Islands). What is consumed tends to be engaged in by immigrant Fijian workers (pers.comm., Nov. 20, 2008). Additionally, very little is known about the traditional use of the substance within pre-colonial Rarotonga. In a very brief account written in 1920, Te Ariki-tara-are recalled an incident where a traditional priest slapped a tribesman with kava leaves as part of spiritual healing (p.50). Gilson & Crocombe (1980:15) adds that only scant references survive regarding the use of kava at chiefly ceremonies. This was because “the beverage was suppressed so quickly and thoroughly by the mission[aries] that no observations were made of its importance” (Lemert, 1967:328).

In contrast, kavatonga is considered Tonga’s national drink, and according to the Tongan Royal Family, “provides a necessary seal of approval on virtually all Tongan events” (Urbanowicz, 1975:46). In former times warriors would make offerings of kava, called mesini, to deities prior to combat or competition (Gifford, 1971:318). Regardless of Christianity’s strong influence on Tonga, both the early and contemporary churches appear to have little concern regarding kava’s link with the traditional religious system as they did in some of the other Pacific Islands. In 1927, Collocott (p.44) described Tongan Methodist ministers consuming kava with the King, and today an extremely large kumete (Tongan kava bowl) comprises part of the altar decoration at the St. Mary’s Cathedral in the Tongan capital (Davis, & Brown, 1999:12).

In some areas kavatonga continues to be used as a conduit for communication with spiritual entities. However its greatest significance is within ceremonial systems, where it has been used traditionally for centuries to symbolise and validate hierarchy (Lemert, 1967:332; Lipp, 1989:n/a; Perminow, 1993:44). This kavatonga-related observance is designated taumafa kava, a term used to define consumption related to ceremonies involving the Tongan Royal Family, or in pre-colonial times, high chiefs. ‘Ilo kava refers to consumption by nobility, whereas faikava is that which is engaged in by commoners, or denotes purely recreational consumption. Finau, Stanhope, & Prior (1982:35) report that kavatonga and its recognition of hierarchy reflect the idea that traditional use patterns are vital to maintaining “cultural identity”. Van der Grijp (2004) states, “Tongan identity

23 In 2008 I spent several days in Port Vila observing contemporary kava consumption styles. On two occasions I consumed kava at the Nakamal of the Malvatumauri (National Council of Chiefs) accompanied by a local lawyer friend and observed parliamentarians and businessmen in conversation and negotiation. Further to this comment, my informant explained that business ideas posed in the office were often ‘fleshed out’ at this venue with final decisions being ‘culturally’ ratified and legitimised due to the chiefly authority of that particular nakamal. However, in contrast to the yaqona consumption I am familiar with (a venue in which discussions are conducted throughout the drinking session), ni Vanuatu tend to discuss prior to drinking. I would suggest this is because they mix their kava highly concentrated. Following a single shelf of ni Vanuatu kava I noted accelerated feelings of intoxication that quickly led to a decreased desire to speak. In comparison, yaqona is a more diluted mix which causes the effects to come on gradually, allowing in-depth conversation over longer periods.
is composed of… four features”, with *kava* playing “a predominant part” (p.3; also see p.7-8,56). Finau (2002:59) adds that *kava* use is a way in “which Tongan’s have maintained their cultural identity”.

Very little is known about *kava* in Tahiti (French Polynesia), where it was called ‘*ava*, ‘*ava-ava*, or ‘*evava*. Its demise foreshadowed that of Rarotonga (Cuzent, 1867:305). Lewin & Wirth commented in 1931 that due to the influence of the missionaries, who imposed bans on the consumption of the indigenous substance in the early 1800s, “it was no longer possible to find a single specimen of the plant and many Tahitians no longer even knew it by name” (p.218). Again, in a similar manner to Rarotonga, very little has been recorded regarding early Tahitian ‘*ava* use and what has been recorded tends to be scant. Parkinson (1972:xvii,1,37), a surveyor aboard Captain Cooks *Endeavour* in 1769, reported the use of ‘*ava* by locals, and Ferdon (1981:128-9) explains its use as part of a human sacrificial ritual conducted in order to seek the aid of ancestral gods in upcoming battles. Consumption levels among those who did consume must have been high – “early European visitors to Tahiti reported seeing individuals suffering from *arevareva*” (Oliver, 1989:302; also see Cuzent, 1867:308), or *kava* dermopathy, a dry flakiness of the skin that results from high rates of consumption (Ruze, 1990:1442).

Hawai’i was another nation to see the demise of ‘*awa* use in the 1800s as a result of Christian missionary influence (Kanahele, 1995:108). However unlike Rarotonga, a little more historical detail exists regarding its traditional use. Hawaiian mythology reports that ‘*awa* was brought to the island nation by the great ancestor Olikukuheana (Lebot, Merlin, & Lindstrom, 1997:125), and a number of very early plant specimens have been located at several archaeological dig sites (Brunton, 1989:27). Academics report on ‘*awa*’s significance within ceremonial, spiritual, medicinal and reciprocal systems (Emerson, 1903:134; Krauss, 1993:102; Lebot, Merlin, & Lindstrom, 1997:96; Kepler, 1998:28; Norton, 1998:382). Titcomb (1948), in her detailed account on the traditional uses of ‘*awa* in pre-contact Hawai’i, states that the “importance and sacredness of ‘*awa* in the life and thought of Hawaiians” (p.157) is due to the interconnectedness of ‘*awa* consumption and the ancestral gods. As one drinks, it is believed they unify with those same gods through their own consumptive act. This union between the spiritual world and ‘*awa* is a reoccurring theme in Titcomb’s work – she also describes how *kahuna* (Hawaiian priests) use ‘*awa* to divine illnesses and the sex of unborn babies by inspecting “the movement of bubbles in the ‘*awa* cup”’. Kepler (1998:8) discusses the use of ‘*awa* by *kahuna* in séances, the invoking of curses and the appeasement of spiritual entities, and how ‘*awa* was placed with the bodies of stillborn children and set adrift upon the sea as an offering to *Kamohoali‘i*, the shark god. Singh (2004b:53) states that it was “customary for chiefs to drink [‘*awa*]… before meals, commoners also if it was available”. Finally, Kepler (1998:7) explains ‘*awa*’s vital position in hosting and celebrations, and as part of chiefly leisure.

Although use-styles may vary across the Pacific, the plant and its related practices are key elements to general Pasifikan cultural identity. For example Lebot, Merlin & Lindstrom (1992:198), the authors of *Kava: The Pacific Elixir*, state “kava plays a unique role in the social life of many Pacific societies” as part of “asserting their cultural identity”. They appear to acknowledge the Pacific elixir’s link with *iTaukei* cultural identity – the cover of their foundational text displays men in traditional dress serving *'awa*. Although *'awa* is in wide use across the Pacific (Piscopo, 2002:2). Scientists have established that *kava* contains antimycotic (antifungal) properties (Aalbersberg & Sotheeswaran, 1991:559; MediHerb, 1994a:2), and mild antibiotic attributes useful in healing urinary tract infections and gonorrhoea (MediHerb, 1994b:2; Singh & Blumenthal, 1997:49). Wiener (1969:39) adds that the value of the indigenous substance as a curative for the sexually transmitted disease was also recognised by pre-World War I Europeans.

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24 Tabureguci (2012:16) reports “Traditional knowledge in the Pacific also links kava to medicinal use. Western medicine caught on to its potential as early as the 1800s, where kava-containing preparations were then available in German herbal shops. (Citing) American ethnobotanist… Chris Kilham [he added] ‘In the early 1900s, kava-based remedies made their way into the British pharmaceutical codex. In 1914, kava was listed in the British Pharmacopoeia under the name kava rhizome… In 1920, kava appeared in European dispensaries as a sedative and hypotensive. Kava also appeared in the U.S. Dispensatory as a treatment for chronic irritations of the urogenital tract. In 1950, the U.S. Dispensatory listed kava for the treatment of both gonorrhea and nervous disorders, under the drug names Gonorasan and Neurocardin, respectively.”
Lebot & Cabalion (1988:23-29), drawing on a large collection of published work, present a geographically detailed list of medical symptoms together with comment on how kava has been used curatively. These included “menstrual problems, lactation problems, headache, general weakness, rheumatism, tuberculosis, leprosy, insomnia, asthma, certain skin conditions and migraine” (also see Piscopo, 2002:2), as well as an aid to “child weaning” (Kepler, 1998:8) and abortion (Stafford, 2005:149).

Lee, Yee & Naing (2007:88) stated that kava is also useful in aiding and managing symptoms associated with benzodiazepine withdrawal. Additionally, since 2002 scientists have been investigating the link between the low-occurrence rates of specific cancers (ovarian, bladder cancer and leukaemia) and the consumption of kava (Sotheeswaran, 2002:17; Tabudravu & Jaspars, 2005:26; Zi & Simoneau, 2005:3485-6; McNarie, 2012:92-4). Much of this research was influenced by Steiner (2000:422) who compared cancer rates between kava-consuming and non-drinking countries, establishing that kava users were 25–33% less likely to contract the condition. However, it is kava’s calming anxiolytic properties, first recognised by indigenous users, that have been embraced by the pharmacological community.

PHYSIOLOGICAL EFFECT

When consumed in its aqueous form as a traditional beverage, active properties within kava called kavalactones dull receptors in the central nervous system, numbing and slowing the response time in muscles, limbs and the brain, and cause a relaxed, peaceful, lethargic feeling (MediHerb, 1994a:1-2). This state is often referred to as ‘kava intoxication’ although it is experienced differently to alcohol intoxication. Unlike alcohol, kava does not produce feelings of euphoria or aggression (Kilham, 1996:64). In a chapter entitled You Cannot Hate with Kava in You within Ward’s (2005:125-142) book, she explains that kava’s effects come on slowly and subtly, relaxing the muscles and bringing on a feeling of casual contentment combined, in the initial stages, with a clear-headedness that promotes conversation (Lewin, 1964:223-4; Singh, 2004a:5; Keltner & Folkes, 2005:522).

Saletu, Grünberger, Linzmayer, et al. (1989) potentially offers an explanation for this initial clear-headedness. They conducted a double-blind, placebo-controlled study involving 15 participants, who received EEG brain mapping scans following the administration of 200mg, 400mg and 600mg single oral doses of extract kava at weekly intervals. They found that a 200mg extract seemed “to exert... an initial vigilance-promoting effect [whereas] the larger doses of 400 and 600mgs [were] sedative” (p. 170). Therefore this “vigilance” in the early stages of consumption possibly aids discussion although once larger doses are ingested the soporific effects increase (also see Lewin, 1964:223-4; Aporosa, 2008:38).

When large amounts of kava are consumed, the drinker experiences double vision, imbalance, stupefaction and a desire to sleep (MediHerb, 1994a:1-2; Singh, Singh & Singh, 2004:154). Chanwai (2000:957) gave a simplistic although insightful description when he said kava induces “a warm, pleasant and cheerful, but lazy feeling, making people sociable, though not hilarious or loquacious, and not interfering with the reasoning”.

Scientists have identified that kavalactones are cross-dependant (Davison, Neale, & Kring, 2004:G4), indicating that they work on the same brain receptors and in a similar manner to another substance. Kava’s chief cross-dependency is with the Benzodiazepine family of drugs (Raduege, Kleshinski, Ryckman, et al., 2004:305-11; Thompson, Ruch, & Hasenohrl, 2004:248). This has resulted in the creation of pharmacological ‘galencial extracts’ – making kava into tablet and syrup form. Extracts are widely available through medicinal herbalists and marketed as ‘nature’s Prozac’ (Knishinsky, 1998:103; Sadock & Sadock, 2003:1022-9). This has added an export value to the importance of this traditional icon (Dragull, Yoshida, & Tang, 2003:193).

25 “Although we use the terms intoxication, drunkenness, inebriation to describe human physiological reaction to the plant, the state differs from that induced by ethanol or other familiar drugs found in the Western world” (Lebot, Merlin, Lindstrom, 1997:3). For a detailed comparison between kava and alcohol, together with a simplistic description on how kava works in the central nervous system, see Is kava alcohol?: The myths and the facts (Aporosa, 2011a:158-160).

26 “A galencial extract is a traditional pharmacopeial extract of an herb... [using an] extracting solvent which was usually a combination of ethanol and water... Galencical extracts are usually in liquid form, typically tinctures and liquid extracts... examples of... galencial extracts... include kava” in its pharmacological form (Bone, 2003:9-10).
In a recent clinical trial, the first of its kind using aqueous kava and human participants, scientists tested 41 subjects using 250mg doses of kavalactones to measure antidepressant and anxiolytic efficacy (Sarris, Kavanagh, Byrne, et al. 2009:4,6,7). The researchers found that “aqueous kava was a safe and efficacious anxiolytic in participants with elevated, stable generalized anxiety and may also have antidepressant effects” (p.8). Additionally, this study added rigour to earlier trials which had tested WS 1490 (a pharmacological extract of kava-kava), finding that “aqueous kava was a safe and efficacious anxiolytic in participants with elevated, stable generalized anxiety and may also have antidepressant effects” (p.8). Additionally, this study added rigour to earlier trials which had tested WS 1490 (a pharmacological extract of kava-kava), finding that it was a safe, viable and “effective” alternative to conventional anti-anxiety and anti-depressant medications such as tricyclics and Benzodiazepine (Tonks, 2003:700-1; also see Mediherb, 1994a:1; Voltz & Kieser, 1997:1,4). O’Reilly, Carr, & Bolitho (2005:482) state that the “long term use of kava does not appear to be associated with any brain damage” and unlike many of the Benzodiazepine-based drugs, kava is not believed to cause addiction (Bilia, Gallori, & Vincieri, 2001:2592; Mediherb, 2004b:1; Keltner & Folkes, 2005:524; Lebot in ABC News, 2008).

Mediherb (1994b:2), a professional newsletter produced for licensed and registered herbal practitioners, recommends that no more than 200mgs of ‘nature’s Prozac’ be consumed daily. These recommendations are based on safety constraints that prevent mental impairment, potentiation with alcohol and physiological tolerance (Mills & Bone, 2005:484,488). This dosage is vastly less than the kavalactone levels ingested by consumers of the traditional beverage – an ethnographic study conducted in Vanuatu reported indigenous consumers drinking up to 2000mg of kavalactones per sitting (Kilham, 1996:108).

That said, Lintzeris & Spry-Baily (2002:238) assert that a “‘hangover’… is often experienced after heavy consumption of sedative drugs such as benzodiazepines” – of which kava is cross-dependant – producing “poor concentration and cognitive functioning… [that] may impair the individual’s performance at work, study or other pursuits”. The understanding that kava can produce a hangover that effects performance is a new and developing area of concern, with some calling for a change in kava use (Nagalu, 2007:9; Aporosa, 2008:14,102; Raicola, 2008:2) – the foundation of this thesis.

USE CHANGE
The use of kava throughout the Pacific remained unchanged until the early 1800s (Steinmetz, 1960:3; Lebot & Levesque, 1989:224), when it almost consciously manifested the prediction of 18th century philosopher Denis Diderot (1713-1784) (Schutz, 1994:9), who warned Pacific Islanders that “One day they [the Christians] will come with the crucifix in one hand and the dagger in the other to cut your throats or to force you to accept their customs and opinions”. It was most often the missionaries that first impacted kava use practices (Finau, 1992:83,86,87; Aporosa, 2011a:160-1), as demonstrated in each of these locations.

Haddon (1916:147-8) reported that early missionaries to the coastal village of Mawata in PNG were unsuccessful in prohibiting the consumption of kéu, káu, tigwa or gámada (kava). Their reason for seeking the removal of the indigenous substance was based on the belief that it “sapped[ed] the energies of the natives”; or considered from a development perspective, hindered productive process. This resulted in “quite a little conflict” on the part of the villagers, who linked the consumption of gámada with a prosperous food supply. The locals appealed to the missionaries, reminding them that local food loss also meant missionary food loss, which resulted in a reprieve on the indigenous substance. This stalemate did not last though, and a general alcohol and kava ban was instituted in 1911. This formed part of a raft of restrictions proposed to bring about guidance and a “civilizing mission… [among] a primitive and dependant people” by the colonial administration (Wolfers, 1975:46,125; also see Marshall, 1987:45). Although some “secretive” tigwa consumption continued during the ban (Serpenti, 1965:49) which did not ceased until 1962 (Wolfers, 1975:137), ultimately the reduction in its use caused it to be superseded by betel chewing (Foster, 2002:20,31-2).

As discussed earlier, some conjecture exists regarding the traditional use of kawa qwua in the Solomon Islands. In 1925 the Melanesian Catholic Mission (p.134-5) to the Solomons reported their objections regarding the use of the substance. They believed kawa qwua had been “introduced from Fiji” and argued the indigenous church members “were tending to put this before Holy Communion, and [were] inclined to neglect Christian duties
because of it”. Although it is unclear exactly what caused the elimination of *kava qwua* from the Solomon Islands, it appears that the missionaries played a role in this.

On both Pohnpei and its island neighbour Kosrae, where *kava* was known as *seka* (Lebot, Merlin, & Lindstrom, 1997:38), missionaries saw *sakau* and *seka* “as the ultimate symbol of the island’s dark ways”, holding the indigenous people back from the ‘one true religion’ that led to enlightenment and civilisation (Hanlon, 1988:144). Influence and pressure by the missionaries upon the chiefly system on Kosrae resulted in the complete elimination of *seka* (McGrath, 1973:64; Marshall & Marshall, 2002:131). On Pohnpei the missionaries managed to markedly decrease use levels, although found it impossible to completely eradicate the practice – even among those “converted to Christianity” – due to the strength of “social cohesion” (Petersen, 1995:39). The use of *sakau* on Pohnpei was threatened a second time when the Japanese took over the island nation in 1914. The Japanese placed punishable restrictions on the use of *sakau* (Merlin & Raynor, 2005:245), believing it “interfered with the attendance and proficiency of labourers” as a result of the hangover it produced (Ashby, 1984:40; also see Poyer, Falgout, & Carucci, 2001:205). However, following the end of World War II, the cultivation and consumption of *sakau* on Pohnpei has steadily increased, reestablishing the indigenous plant as Pohnpei’s “cultural keystone species” (see Balick & Lee, 2009:165). This created a major export commodity and promoted its use traditionally (Merlin & Raynor, 2005:245) and in “licensed sakau bars” (Petersen, 1995:55). A recent survey conducted in Pohnpei revealed that 83.6% of males and 53.2% of females drink *sakau*, with males reporting that on average they consume the beverage for 5.4 hours per week (Balick & Lee, 2009:189-90).

Young’s (1995) detailed article on the influence of early missionaries on *namaloku* and *nekava* use in Vanuatu is extensive. He comments that during the latter half of the 19th century Presbyterian missionaries preached against the indigenous substance in an attempt to erase it, although they were met with an oscillation of success and failure. The failures were often perpetuated by Vanuatuan traditionalists, who actively enticed indigenous Christians away from apostasy with the offering of *namaloku* and *nekava* (Brunton, 1981:372; Young, 1995:64). The missionaries’ abhorrence of the substance was due to what they considered poor hygiene during the preparation of the beverage27 and its link with the “heathen” traditional spiritual system (Gregory, Gregory, & Peck, 1981:302) report that *namaloku* and *nekava* were threatening their traditional practices and identity rebelled, vigorously renewing their consumption of the substance – a practice that continues to this day (Gajdusek, 1967:119-20; Brunton, 1981:371-2; Crowley, 1994:90).

Contemporary *ni* Vanuatu use-change is highly evident in urban areas. In rural settings, consumers sit cross-legged on mats and share *namaloku* and *nekava* from a communal bowl. However, in the capital of Port Vila, men (and occasionally women) regularly gather on a daily basis to purchase and consume *namaloku* and *nekava* from one of several hundred *nakamales*, or privately owned and operated bars. In these establishments, customers sit on chairs, with some *namaloku* designed to include contemporary décor and electronics. Nevertheless I did notice during my visit to a variety of urban *nakamales* in August 2008 that a number of *ni* Vanuatu consumers did adhere to elements of culture, incorporating traditional practices such as offering libations to the ancestral gods and pronouncing incantations as part of consumption. Additionally, *ni* Vanuatu have embraced the economic opportunities of *namaloku* and *nekava* and developed a highly successful export industry. Moreover, in a similar manner to many other Pacific nations, *kava* continues to be a symbol of national identity for most *ni* Vanuatu (Crowley, 1995:13,12; 2004:3).

The arrival of the missionaries in Sämoa did not impact ‘ava to the extent of many other Pacific Island nations (Steinmetz, 2007:305). Keessing (1934:410) reported, “Instead of accepting Christianity and allowing it to remould their lives... the Samoans [embraced] the religious practices taught to them and fitted them inside Samoan custom, making them a part of the native culture.” In a 1973 Sämoan Roman Catholic publication, the Archbishop of Sämoa Cardinal Poi Taofinu’u described the significance of ‘ava to Sämoan religious practice as part of the Eucharist and identified “Jesus Christ as a Heavenly Kava Root at Bethlehem” (p.1-2).

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27 Gregory, Gregory & Peck (1981:302) report that *namaloku* and *nekava* was traditionally prepared by young boys who were responsible for chewing the raw plant material into a pulp, which was then mixed and strained through water.
This embracing of a traditional practice within Sāmoan Catholicism, one deigned ‘backward’ and ‘heathenistic’ in other Pacific settings, was not limited to the 1970s. In 1995 the Church republished the booklet with an updated forward by the Archbishop of Sāmoa (Taofinu’u, 1995) who reaffirmed ‘ava’s importance to the religion. Sāmoan Catholics are not alone in their linking of ‘ava with the divinity of God’s Son – Sāmoan Methodists also believe that liquid ‘ava has redemptive significance in the same manner as the Blood of Christ. Bargatzky (1997:93-4) argues that Sāmoans, instead of being “passive [recipients] of foreign missionary activity”, actively participated in moulding Christianity together with their traditional ‘ava systems’. It is interesting that while Sāmoan ‘ava use was not change free, what change did occur had a great deal of local input and control, thus reducing levels of disruption and cultural upheaval. This is highly suggestive of post-development as discussed in the previous chapter.

More recently Sāmoa has reasserted its cultural stance in contrast to externally introduced development systems. Figure 3.5 shows a set of stamps commissioned to celebrate the 30th anniversary of diplomatic relations between Sāmoa and China (Government of Sāmoa, 2005). Three of the four stamps are the epitome of development under modernisation, displaying men wearing European-styled business suits, modern architecture and space travel. In what some would suggest is an incongruous inclusion, the fourth stamp is of a ‘umeke (‘ava bowl), an icon that both asserts Sāmoan culture and its identity, ‘stamping’ this as equally important as modern systems of development.

Another Pacific nation that withstood missionary efforts to restrain or prohibit kava use was Tonga, although it is clear that the missionaries initially resented the traditional substance (Perminow, 1993:44). Urbanowicz (1975:34) identifies four factors that aided resistance: [1] the consumption of kava was intrinsically linked to identity; [2] kava consumption provided a setting for the dissemination of issues and problems; [3] kava was considered a “necessary seal of approval [in] all Tongan events” and [4] kavatonga stood in opposition to the consumption of alcohol (which is deemed non-Tongan). Although the missionaries brought mass Christianity to the locals, they failed spectacularly in prohibiting their traditional drink, and today aspects of kava ritual are combined with Christian practices (Perminow, 1993:44). Bargatzky (1997:93-4) states that it was common throughout the Pacific for Christianity and kava practices to be moulded together and was accepted, albeit reluctantly, by the missionaries. However, Bargatzky’s comment is a serious overstatement when Rarotonga, Tahiti and Hawaii are considered.
Missionary influence in Rarotonga, Tahiti and Hawaii had a major impact on 'ava use. Concerning Rarotonga, Mangos & Utanga (2011:58-60) stated, "by the end of the [19th] century Christianity had thoroughly replaced the traditional belief systems and practices... For a culture founded on oral traditions, this was a body blow akin to the burning of libraries in Western culture". Crocombe (1983:194) reports that in the early 1860s, Ernest Krause, a German missionary stationed in Rarotonga, drafted an edict prohibiting the consumption of both alcohol and 'ava by the indigenous populace. This created such a swift and pervasive eradication of 'ava that very little was recorded about the cultural practices surrounding its use (Gilson & Crocombe, 1980:15). In a desire to replace their traditional substance, the Rarotongans learned the art of bush-beer making from Tahitian immigrants, an alcohol produced by fermenting oranges (Lemert, 1979:194; Kautai, 1984:74-5). Interestingly though, aspects of 'ava consumption practice can be seen in bush-beer drinking. For instance, consumers sit cross-legged in a circle drinking from half-coconut shells and participating in a pseudo-traditional practice which carries with it many of the appearances of traditional 'ava use (Kautai, 1984:74-5). Bush-beer and its adapted culture are still common today²⁸.

Literature detailing the reasons that led to the eradication of 'ava from Tahiti is limited. Lester (1941:100), without giving specifics, states simply that it had been "forbidden... by the early missionaries". Williamson (1939:88-9), reviewing the observations of several commentators who were present in Tahiti during the visits of Captain Cook, described the habitual "self-indulgent... boozing over kava" by locals. He added that the "priests were often so intoxicated [with kava] that they could not adopt the attitudes of devotion when engaged in their sacred duties" (p.89). The use of language such as "attitudes of devotion" would suggest that these priests were "engaged in [Christian] sacred duties". Lemert, Lemert & Winter (2000:145-6) state that missionaries to Tahiti were gravely concerned about drunkenness among the "natives". Between 1815 and 1819 the missionaries assisted in the drafting of a "code of laws... which prescribed penalties for drunkenness", resulting in the prohibition of all intoxicating beverages by 1829. This prohibition had such a major impact upon 'ava consumption that cultivation of the plant ceased (Lewin & Wirth, 1931:218) and is a major factor in why 'ava is no longer consumed in Tahiti.

Similarly, missionary influence was a clear factor in the demise of 'awa in Hawai'i (Titcombe, 1948:105; Cox & Davenport, 1988:21; Kanahele, 1995:108). Academics wrote that early missionaries led an active crusade against the cultivation of 'awa, along with the consumption of both 'awa and alcohol by the indigenous populace (Brown, 2003:94-5; Woolley-Compton, 2005:92-7)²⁹. Brown (2003) states that the missionaries believed 'awa use and intoxication was linked with Hawaii’s "natural inferiority" (p.96) and traditional religious structures, an ideology that comprised "part of a broader colonial discourse that suggested that Hawaiians were irresponsible and incapable of governance of the self or, for that matter, political self-governance" (p.95). This campaign resulted in a use and cultivation prohibition in the 1850s that finally "stripped 'awa of its traditional role in Hawaiian religion" (p.102; also see Lebot, 1991:182).

²⁸ Bush-beer consumption which reflects pseudo-traditional practices based on 'ava drinking can be seen in a photograph which appeared in a 2003 internet travel blog (TravelPod, 2003). This depicts a Rarotongan presenting a “bush beer ceremony” using a custom made receptacle and half coconut shell drinking vessel, mimicking aspects of traditional kava consumption. The blogger acknowledges that “the drinking of bush beer... has its roots in the Kava ceremony”.

²⁹ “In 1865 Mormon missionaries bought approximately 6,000 acres with the hope of creating a gathering place for Hawaiian converts to settle in... Frederick Mitchell arrived... in June of 1873... as mission president/plantation manager. It was under his tenure that serious conflict emerged regarding ‘awa. Harvey Cluff recorded that ‘President Mitchell considered the ‘awa condemned in the ‘Word of Wisdom’ as well as liquors and with inthusiam [sic] he set his face against the propogation [sic] and use of it.’ When Mitchell decided to prohibit the cultivation of ‘awa, he placed himself in opposition to Native Hawaiians’ desire to control their own work and to support their families. (p.92)... The Word of Wisdom is a health code for Mormons that includes counsel against the use of drugs such as alcohol and tobacco... A greater emphasis was placed on the Word of Wisdom, and Mitchell included ‘awa as a prohibited substance’ (Woolley-Compton, 2005:92-3). The Church of Jesus Christ and Latter Day Saints (Mormons) prohibition on alcohol and drug use (which includes caffeine) continues today, although ‘kava use is permitted for medicinal and cultural purposes’ (Aporosa, 2011:158; also see Griffin, 2007:1-3).
Since the 1970s, Hawaii has seen a cultural renaissance that includes a renewed interest in 'awa (Linnenik, 1997:405; Cummings, 2008:198; Winter, 2004:12). This has included the opening of 'awa bars (Winter, 2004:22-3) and the annual Kava Festival hosted by the Hawaiian 'Awa Development Council. During the opening address at the 2005 festival held at the University of Hawaii on Manoa, the Lieutenant Governor of Hawaii, James Duke Aiona, stated that in the days leading up to the event he had received a number of emails questioning “whether I was partaking in something illegal or suspect… [due to the] mythical perception of what ‘awa represents” (‘Awa Development Council, 2005:n/a). He added that he wholeheartedly supported the event and encouraged the attendees to “try to understand what ‘awa stands for, [and] cultural and medicinal purposes that [were] used by ancestors here and in the Pacific for centuries. I hope you come away with the spiritual and intellectual understanding of what ‘awa stands for here in Hawaii”.

In an alternative setting, academics at the University of Hawaii regularly meet to sample and discuss 'awa varieties at the “kava lab”30. Anthropologist Dr. Matt Tomlinson (pers. comm., 2008, April 22, May 6) described his experiences at the “kava lab” in several emails. He commented that this is a weekly event that incorporated both scientific aspects and a social structure, although negated any ritualistic observances. Tomlinson added that ‘awa varieties consumed are both local and imported with the root stock often frozen to maintain freshness. These are mixed in a purposely built “kava machine” with the prepared beverage discussed in a similar manner to viticulture. Contemporary expressions of ‘awa use such as bars which “provide the opportunity for sharing experiences of ‘Awa traditions” together with the annual Kava Festival and ‘kava lab’, aid local understanding regarding their traditional substance (Winter, 2004:23). This, Winter (2004:19) argues, is vital “if contemporary Hawaiians are truly going to regain a unique sense of identity”. Hawaii though is not alone – several commentators have asserted that over the past 30 years kava, ‘awa, ‘awa-ava and ‘evava etc. have added to the symbols of indigenous identity in many Pacific countries (Lipp, 1989:n/a; Lebot, Merlin, & Lindstrom, 1997:208, Kate & Laird, 1999:104).

**REFLECTION**

Colonial contact and modern systems of development brought major change to many indigenous substances worldwide, five of which were discussed above. In the case of alcohol – the ‘original traditional substance’ (Patrick, 1952:12-3) – this was in the form of the Industrial Revolution. Mechanisation required a sober, punctual, reliable and disciplined workforce capable of meeting new styles of productivity, capitalism and economic prosperity, a system that contrasted the former ‘traditional’ agrarian feudal lifestyle in which alcohol use comprised part of work and was deemed non-problematic.

Concerning coca, early conquistadorian contact brought a brief disruption to indigenous use patterns aimed at encouraging the “natives” to embrace ‘modern’ religion, namely Catholicism (Durrant & Thakker, 2003:73). However, when the colonials recognised that coca had the ability to increase activity and therefore productivity, they overlooked their earlier prejudices and actively exploited the use of the indigenous substance for their own gain. Although contemporary coca use is often (incorrectly) associated with heroin and cocaine use, the leaves continue to be used as part of traditional systems and as a productivity aid among local agropastoral workers. In a similar manner to coca, kawakawa was also targeted by the colonials who viewed its use by Māori as amounting to superstitious paganism. Legislation in the form of the 1907 Tohunga Suppression Act markedly restricted kawakawa use adding to the loss of a large amount of traditional knowledge by Māori (Durie, 2003:51,71).

Betel use – from the perspective of modern systems of development – is contradictory as it is deemed both complementary to productivity (Wyatt, 1996:461-2; Chu, 2001:231-2) while simultaneously “unproductive” (Korugl, 2007:6); or in the words of Foster (1992:41), the chewing of betel is “incompatible with the goals of

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30 Baker (2012), a regular at the “kava lab”, described this setting as part of what he termed the “quasi-traditional consumption” of kava, or the increasing recreational use of this substance by non-Pacific users aimed at experiencing its psychotropic effects (p.244-5). He also explained the growth of the “kava-containing foods” market in which manufacturers have developed products such as “kava smoothies; kava butter; kava batter (used to coat foods prior to frying); ginger-flavored kava-extract-containing drinks; and kava bread… kava java drink… kava brownies and popsicles; kava-infused coffee beans” and carbonated kava drinks. The aim is to provide a delivery mechanism without the taste, an aspect that many westerners struggle with (p.249-252; also see Aporosa, 2008:35).
modern development” as it draws chewers away from work. Further, chewing in Government offices has been banned whereas attendance at a “Parliamentary Betelnut Club” was encouraged.

Academics, as discussed above, suggest the reason for these ambiguities and a lack of specific direction concerning the use of this indigenous substance is due to betels depth of importance to the social, cultural and business fabric of PNG. Connell (1984:58), almost 30 years ago, believed that “social policies [aimed at banning betel, would] stand little chance of dampening” its use.

Kava use across the South Pacific remained chiefly unchanged until the arrival of the missionaries who, in a similar manner to cocoa and kawakawa, saw its use as a “symbol of the… dark ways” (Hanlon, 1988:114) and its consumption a “heathen” practice (Gregory, Gregory, & Peck, 1981:303), leading to mixed results. In the case of the Solomons, Kosrae, Rarotonga and Tahiti, the missionaries were able to completely eradicate the traditional preparation.

Although the missionaries failed to eliminate kava in PNG, Pohnpei, Vanuatu, Sāmoa and Tonga, their influence nevertheless brought about change. For PNG, bans between 1911 and 1962 saw use decreased, eventually being mostly replaced by betel chewing and alcohol consumption. Missionary influence and the later Japanese occupation of Pohnpei saw a marked decrease in sakau consumption. However, since the end of World War II consumption has returned with renewed vigour including the cultivation of sakau for economic advantage – an activity that contrasts traditional styles of exchange based solely on reciprocity. Similarly, missionary influence in Vanuatu sought although failed to eradicate this traditional substance. Ni Vanuatu have also realised the economic opportunities offered through modern systems of trade and export31 while also meeting local demand through nakamal (kava bar) sales. In the case of Sāmoa and Tonga, missionary contact cost both the colonial and local, with the missionaries forced to compromise on their usual hard-line approach and blend aspects of the kava culture with Christianity. Although the locals lost ‘ava and kavatonga’s link with the traditional gods, they were able to relocate that union to the Christian God-head.

Finally, missionary contact in Hawaii greatly impacted ‘awa use in a similar manner to the Solomons, Kosrae, Rarotonga and Tahiti. Although a lot of traditional knowledge was lost regarding the indigenous substance and its practices, a recent cultural renaissance is attempting to reestablish ‘awa’s legitimacy through events such as the Kava Festival and the daily meeting of the ‘kava lab’, contributing to the regaining of a “sense of identity” among the Hawaiian people (Winter, 2004:19).

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31 Although some Vanuatu kava is exported to Fiji to aid local demand (Fiji Times, 2009a:12), the majority supplies the pharmaceutical industry, a partnership that has been far from problem free. In 2001 kava was banned in a number of European countries after pharmacological preparations were reportedly linked with liver toxicity (Moulds & Malani, 2003:451; Singh & Singh, 2002:738; Richardson & Henderson, 2007:419-9). This markedly impacted the substance’s value as an export commodity (Singh, 2004c:48). This is in contrast to traditional Pasifika use where “kava hepatotoxicity has not been observed” (Provino, 2006:104; also see Beyer, 2007:4). Some argue that the ban was “a vile plot devised by the multinational drug companies to strangle competition” (Keith-Reid, 2002:15) as “kava was starting to eat into [their] profits” (Moulds & Malani, 2003:451; also see Lindstrom, 2009:303). In the World Health Organisation (WHO) 2007 Assessment of the risk of hepatotoxicity with kava products, researchers determined that these “rare” cases of liver toxicity resulted from “kava-drug interactions, excessive alcohol intake, metabolic or immune mediated idiosyncrasy, excessive dose or pre-existing liver disease” and a conflict between the chemical structure of kava and the use of ethanol and acetone in some pharmacologically preparations (Coulter, Tamaya & Sotheeswaran, 2007:iv). For further information on this, Dr. Vincent Lebot, “the worlds leading kava expert” according to ABC News (2008) Australia, explains this topic in an ANC News documentary available online (starting at 04:05 minutes). The WHO report, together with strategies such as Teshike, Sarris and Lebot’s (2010:100-2) “six point plan”, have sought to prevent future cases of hepatotoxicity and renew European confidence in kava. Over the past 24 months exports have increased although an element of suspicion lingers, especially among the uninformed. What is known is that kava’s link with liver toxicity and fear among European users has had very little impact within the traditional use arena (Singh, 2004c:48). Tabureguci (2012:16-7), reporting on “the high level validation workshop in Port Vila, Vanuatu, in March [2012, stated that since the ban… volumes of scientific research…[have] all vindicated kava. And that’s really where the ‘dirty politics’ started because despite the scientific evidence…to prove kava’s effectiveness through updated clinical trials, the goalposts were always shifting.” As previously discussed, kava is seen as a threat to pharmacologically manufactured anxiolytic medications (Moulds & Malani, 2003:451; Lindstrom, 2009:303). Discussion in my Master’s thesis further supports the assertion that the ban is driven by competition and profits with concerns over safety comprising “dirty politics” and a smokescreen to the real issue (Aporosa, 2008:53-4). There I discussed Schmitt, Morgan & Bone et al. (2005), who investigated 83 alleged toxicity reports and found that “only three cases could be attributed to kava with high probability” and in those cases it is suspected that other factors were responsible for the negative reactions (p.182). They added that 12 “probable” cases had been confirmed responsible for liver failure, this would account for a toxicity rate of “0.23 cases per 1 million daily doses” (p.187). At the same time though, the researchers reported that consumers in Germany – one of the European country’s who initiated the ban – were reportedly taking Diazepam (a commonly prescribed pharmacologically manufactured anxioselectic) with a toxicity rate of 2.12 cases per million daily doses (p.187). However Diazepam continues to be widely prescribed in Germany together with the other European country’s observing the kava ban (Aporosa, 2008:54). Baker (2011) has written a valuable and detailed account of the factors that led to the ban, together with the varied responses to it (including that of the traditional users).
This discussion shows that the interaction of modern systems of development and indigenous substances has been mostly detrimental to traditional practices and knowledge. While prohibition was achievable in a few limited cases, overall complete restriction was ineffective. This is not surprising considering the “miserable failure” of America’s Noble Experiment – the alcohol prohibition of 1920–1933 (Deitch, 2003:141) – together with other examples presented in Chapter 2 (p.11). What then is considered the most appropriate alternative? This will now be discussed.

HARM REDUCTION AS AN ALTERNATIVE TO PROHIBITION

Researchers and policy developers are increasingly utilising harm reduction (Cherry et al., 2002:xviii; Rumbold & Hamilton, 2002:131) as the alternative to the strict confines of prohibition, an approach that takes into account wider perspectives. According to Loue (2003:73-4), the theory of harm reduction understands “addiction as a continuum, with abstinence at one end”. This framework is wide in scope and allows for a variety of approaches that take into account location, the type of substance being used, socio-cultural connections and any political and legal applications (also see Rumbold & Hamilton, 2002:133-4,136-7). The central theme of the theory acknowledges that societies will never be drug free, although “recognizes that the [substance] user has the ability to act responsibly and to make choices to stop or modify risky behavior” (Loue, 2003:74; also see Williams, 2004:117). Additionally, harm reduction attempts to gauge the potential risk of a substance and investigates measures that are required to reduce or minimise the harm surrounding its use, while avoiding idealistic judgments as to whether the use of a substance is ‘good’ or ‘bad’ (Rumbold & Hamilton, 2002:135-6,138).

In Australia, argued Rumbold & Hamilton (2002:141), harm minimisation has significantly improved “cooperation and collaboration across various sectors and services”, especially in relation to the needle swap programme. This programme is a prime example of harm reduction – it encourages substance users to exchange their used syringes and needles for clean items with the aim of reducing the transmission of HIV/AIDS (Loue, 2003:74; McDermott, 2005:414). Similarly, downgrading a substances control class in order to allow law enforcement officials to focus attention on preparations deemed a greater threat is also an example of harm reduction. This was exemplified in Britain in 2004, when the possession of small amounts of cannabis was de-criminalised, allowing police to reallocate resources and focus on substances such as cocaine and heroin (McDermott, 2005:152). Mexico undertook a similar law change in 2009, “decriminalizing the possession of marijuana, cocaine and other drugs in amounts small enough ‘for personal and immediate use’. The law, which officials hope will free up resources… mandates addiction counselling for any user caught more than three times.” (Time Magazine, 2009:7)

Loue (2003:153) described harm reduction as a “cultural-centric approach” arguing that cultural factors such as social class, ethnicity and religion are determinants in applying harm reduction measures to a substance. She added that in some cultural settings, substances are deemed unproblematic, whereas in others they are regarded as destructive and therefore minimisation approaches are applied accordingly. One such example is kava, which among Pacific communities is mostly deemed unproblematic, while its use by Abroginies in Australia’s Northern Territories is deemed ‘questionable’ (see Chapter 9, footnote 81). Although the topic of harm reduction and the cultural setting will be examined again later in this study (p.163), this present discussion suggests that the acknowledgement of culture is an important consideration in substance abuse and harm reduction policy. This is a major shift from that of the modernisation approach, which as discussed earlier, considered culture as ‘primitive’ and a hindrance to development.

CONCLUSION

The five substances covered in this chapter have looked at traditional use perspectives, cultural importance and physiological effects. There has been additional discussion on how these cultural keystone species have seen change in use patterns or, in some cases, how these substances have been eradicated. These five substances have each been impacted by Eurocentric systems of development, often with negative results. This discussion has key relevance to my analysis of yaqona and education.

Essentially this chapter has illustrated the idea of a traditional/contemporary tension at its most fundamental level by describing the polemic interaction between traditional substance use and contemporary notions of...
development based on modernity. This tension between traditional and contemporary is further demonstrated in a central theme that runs through the discussion of all of these five substances. Academics are mostly united in the belief that the use of these substances was non-problematic to socio-cultural and productive systems when used within their traditional settings (Rumbold & Hamilton, 2002:132). However, when these same substances were used in a changed setting due to colonisation, early missionaries, notions of Enlightenment, the monetary economy or the industrial revolution, their status altered and use was deemed a hindrance and a threat to modernity, productive process and economic growth. In the case of the traditional/contemporary tension, the contemporary aspect of modernity frequently gained the upper hand. This was regardless that these traditional preparations had been central to cultural systems for generations and that in some cases they offered value to the developmental pursuits of the colonials in the form of medicines, productivity aids, business facilitation and conflict resolution (Fulton, 1922:7-10; Lepowsky, 1982:340; Naidu, 1983:37; Alcorn, 1995:2; Nelson & Heischober, 1999:239; Szasz, 2003:75; Aporosa, 2008:59).

Although the 1970s saw cultural renaissance in the Pacific (p.13) followed by development approaches that were more friendly toward indigenous substances (p.20), the influence of modernisation and more recently neo-liberalism have remained. For instance, in 2001 Rates (p.603) commented that although “the importance of natural products [for therapeutic use] is clearly enormous... the Industrial Revolution and the development of organic chemistry [has] resulted in a preference for synthetic products”. He adds that this is driven by “the economic power of the pharmaceutical companies... [whose] approach was... the new modus vivendi of the industrialised western societies, in which drugs from natural resources were considered either an option for poorly educated or low income people or simply as religious superstition” (p.603). A few years later Coomber & South (2004) reported that contemporary Western development discourse – which Hettne (2008:9) and Wilm (2011:61) argued was simply a reconstituted form of modernisation termed neo-liberalism – continues to link the use of traditional preparations with abnormal behaviours, “backwardness or underdevelopment” (p.8-9). Therefore, if discourse influenced by the ideals of modernisation and neo-liberalism continues to be the predominant lens through which these substances are viewed and valued, indigenous preparations will potentially be prohibited and possibly eradicated. This is despite what commentators such as Rates (2001) argue is the enormous “importance of natural products” (p.603) to “the preservation of indigenous knowledge” (p.611) which is in turn valuable to sustainable development (Hall, 1990:225; Teasdale & Teasdale, 1992a:1; Escobar, 1995a:98; Horn, 2000:34; Verhelst & Tyndale, 2002:11; Radcliffe: 2006:18; McEwan, 2009:229).

Post-development, as discussed in Chapter 2, is highly critical of modernisation and its economic-development-focussed successors. Generally post-development deems these development systems as little more than colonially based hegemony aimed at invalidating the use and potential of local systems. These systems (life-ways) include the culture and traditional knowledge that is connected to, and often evolves out of, the use of these indigenous substances. Further, the predominant development approaches, with their mandate for development, fail to understand that if self-determination at the local level is added to the factors of traditional knowledge and culture, these have the potential to bring about successful development within developing nations (Gibson-Graham, 2005:4).

This creates a major challenge in environments where the developmental agenda is heavily influenced by productivity, economic growth and educational attainment, and have indigenous substances as key elements of culture. PNG is an environment wrestling this traditional/contemporary tension. Betel is a “national cultural symbol” (Foster, 2002:20; also see p.31-2) while being simultaneously regarded a hindrance to productive process (Korugl, 2007:6). Similarities are also observed with kava, where the traditional soporific is critical to the culture and identity of most Pasifikan (Lebot, Merlin & Lindstrom, 1992:198; Pollock, 1995:2), although it is argued to produce a hangover effect that is believed to hinder productivity and in turn contemporary systems of development.
How then do these societies both manage modernisation-inspired development while embracing their traditional preparations? And how do they regulate the associated cognitive impairment and hangover effects that reportedly accompany some indigenous substances, when contemporary systems of development require a sober, alert and punctual workforce in order to bring about productive process and development? These are key themes that defy simplistic prescriptions or remedies but are critical to the study of *yaqona* (*kava*) and education delivery in Fiji. The next chapter will discuss education in Fiji and the importance of this input to national development.
CHAPTER 4
EDUCATION, DEVELOPMENT AND FIJI

INTRODUCTION
This chapter is chiefly concerned with education as an input to the national development of Fiji. Discussion opens with comment on education as a “critical feature” of modernisation (Webster, 1990:98). Modernisation and its top-down teaching methodology continues to have an influence on contemporary teaching practice. To contrast this, the characteristics of what a post-developmental education framework might look like are postulated with comment on this ideology’s use within the Fijian teaching environment. The history of education in Fiji is then presented considering influences of modernization and neo-liberalism. This discussion is intended to give context to themes that follow, notably the circumstances that led to academic disparities based on ethnicity which in turn have hindered the country’s goal of development aided by education.

This then deliberately funnels the discussion toward themes contained in the Fijian Ministry of Education’s (MoE) “comprehensive review”, Learning Together (Pene, Tavola, & Croghan, 2000:i32). This review presents a variety of factors believed to cause academic under-achievement in Fiji. Two specific elements are selected from this list. The first is “bad teaching” (Williams, 2000:188,214-5), a topic that will be expanded on and discussed from the inverse perspective of quality education delivery and qualities of professional teacher practice. This will also include comment on cultural identity as an aid to academic achievement. The second is the use of yaqona (kava) – the Pasifika “cultural keystone species” (Garibaldi & Turner, 2004:5) – within the teaching environment. This will include discussion on aspects of the ‘culture of yaqona’ to identity formation and continuance. In their Learning Together review, the MoE acknowledge the cultural importance of yaqona while expressing concern that it is impacting negatively on quality education delivery. Recent policy initiatives aimed at mitigating this problem will also be presented. This discussion will again illustrate the traditional/contemporary tension as discussed in the previous chapters. While previously this term was used to illustrate the often polemic interaction between traditional use systems associated with indigenous substances and contemporary systems of development, in this case it includes education and – more specifically – yaqona’s impact on quality education delivery.

EDUCATION INSPIRED BY MODERNISATION
Chapter 2 commenced with a discussion of modernist processes and philosophies embraced since the late 1700s that essentially industrialised Europe and influenced the development agendas of most countries today. A key focus of that discussion was modernisation’s prescribed change away from the “primitive” (Rostow, 1956:27) collectivist ideologies and practices of the “backward” (Youngman, 2000:52-4) to individuality and “economic initiative” (Rostow, 1956:27). Huntington (2002:21) neatly encapsulates this developmental approach while also mentioning the importance of education—

Modernization involves industrialization, urbanization, increasing levels of literacy, education, wealth, and social mobilization, and more complex and diversified occupational structures. It is a product of the tremendous expansion of scientific and engineering knowledge beginning in the eighteenth century that made it possible for humans to control and shape their environment in totally unprecedented ways. Modernization is a revolutionary process comparable only to the shift from primitive to civilized societies, that is, the emergence of civilization in the singular… The attitudes, values, knowledge, and culture of people in a modern society differ greatly from those in a traditional society. As the first civilization to modernize, the West leads in the acquisition of the culture of modernity. As other societies acquire similar patterns of education, work, wealth, and class structure, the argument runs, this modern Western culture will become the universal culture of the world.

32 The Fijian Ministry of Education’s Learning Together review comprises 28 chapter by a variety of authors. The authors will be referenced throughout this study as opposed to the MoE.
Webster (1990) adds that education is a “crucial feature” (p.98) in modernisation, providing “basic skills, such as literacy and numeracy, and... specialised technical knowledge...” Theorists also believe that the specific direction of education is tied into the occupational demands of industry (p.119). Williams (2004:133) states, “Basic education is the most effective development tool there is”, which he justifies by drawing on literacy rates and per capita GDP statistics. Citing 2004 figures, he explains that in countries where the adult literacy rate is 40%, GDP averages $210. Conversely, in countries where it is 80%, GDP was over $1,000 per capita. Further, farmers with four years of education were 10% more productive when compared with those who completed less, and girls who attended school often married later and had fewer children. St. Clair Skeet (2007:31-2) admirably summarises the supposed contribution of education to development when she asserts—

Education is seen as not only the tool for development, but the key to such betterment. The impacts of education on developing countries are plentiful. Stretching from the mythical increase in national economic output to the westernized perception of increased social well-being of entire populations; education is deemed the strongest driving force of development... the reality remains that every healthy, independent, and economically surviving country today has an educated population. Education allows individuals to develop within their community and country, and allows nations to compete and survive in the global economy.

The education arena is also considered the key setting for the creation of “human capital” (Youngman, 2000:56), or the growth of people with “modern cultural values” (Peet & Hartwick, 2009:223) and productivity skills necessary to increase capital output and therefore aid economic growth (also see Mincer, 1958:301). Human capital places education at the centre of development while simultaneously attributing it with investment opportunities (Fägerlind & Saha, 1983:17-8,44,68; Carmen, 1996:61-2). Farrell (2007:130) states that human capital and public expenditure “increase the availability of education [to] produce net social benefits, increasing the total amount of wealth in a society and improving its distribution”. It is worth briefly pointing out here that the union between “humanistic concerns” or human capital and “economic rhetoric” are, according to Tuinamuana (2005:204), evidence of increased neo-liberal influence within the education area, an idea I will continue to expand on in the coming sections.

The human capital mandate is not without its critics (Fägerlind & Saha, 1983:46), prompting some to seek an alternative ‘education for empowerment’ approach. The central theme here is a greater sense of democracy with education deemed to ‘empower’ individuals in decision making and facilitate increased involvement in the social, political, cultural and economic forces within society (Carmen, 1996:64-7). Gould (1993:209) argued modernisation and the human capital approach continue to be the primary influence in education planning, with “hierarchical, bureaucratic and centralised” systems dominated by economic strategies being the norm (also see Fägerlind & Saha, 1983:47).

Although modernisation appears simplistic, prescriptive, easily achievable and widely applicable, this is not the case. Commencing in the 1960s, “ferocious... political and intellectual... attacks were launched on all aspects of [modernisation] theory”, most notably from dependency theorists who criticised everything “from its original base in structural functionalism to the politics of its policy prescription” (Peet & Hartwick, 2009:132). This highlighted a variety of shortcomings, notably modernisation’s one-size-fits-all “policy prescription” (Peet & Hartwick, 2009:132), criticism that Fägerlind & Saha (1983) state is also a key “weakness” (p.49) in education strategies (also see p.57-8). Such debate may have brought an element of doubt to the theory, but as Peet & Hartwick (2009:140; also Gould and Fägerlind & Saha above) explain, it did not halt its influence—

The notion that there is a proven path to development that can be read from the experience of the West is so embedded in modern culture that mere academic critique is relatively powerless. Modernisation can be countered only through alternatives that are more convincing and persuasive, alternatives summoned up from the perspective of excluded groups or ones based on criticisms of the very concept of development.

In Chapter 2 I explain that “the 1980s saw a rapid growth in support for a revamped form of modernisation theory known as neoliberalism” (Scheyvens, 2002:24), an “economic orthodoxy” (Simon, 2008:87) driven from
the global perspective that also influenced education in developing countries (also see Brohman, 1995:125:134). Hill & Kumar (2009) summarise neo-liberal education in practice. Essentially this focuses on student education that will lead to future workplace “capitalist enterprises” (p.2). Additionally, it includes school environments that are business centres capable of creating profit from private activity (p.2) together with increased partnership between government, school and the community (p.3). Tooley (2001) presents a “profile” (p.44-48) illustrating a competent, profitable and effective neo-liberal ‘education company’. Of particular interest to the present discussion, he describes a number of “small but nevertheless significant public-private partnerships” (p.177) that have aided educational growth in developing countries. These include the Delhi Public School Society funded by an educational research centre (p.53-4), the growth of Educor – a multi-faceted teaching system in South Africa that has led to the organisation listing on the Johannesburg Stock Exchange (p.57-8), and an educational model in Colombia that utilises private sector financial and business advisors allowing school reproduction. In more recent cases, Burke (2012:6) describes Catholic schools in the US which have pursued private sponsors and donors to support an education business model, whereas Dahlstedt (2012:12-13) discusses schools in Sweden which have embraced corporate styled branding and service provision as part of promoting themselves as unique and specialist and therefore more desirable as education facilities. Finally, Ball’s (2012:24) explanation of the neo-liberal school or university as an entrepreneurial business, generating non-state sourced finances, reminded me of a similar example I had witnessed in Fiji in 2009. At a rural school home economic students had made household items such as decorative pillows, curtains, bedware and mats, while woodwork pupils had built food-safes, kitchen dressers, and tables and chairs, items they had sold at their fund-raising event. This had been termed “enterprise education”.

Neo-liberal discourse first began appearing in MoE policy documents just prior to the new millennium. Tuinamuana (2005) discusses this at length by analysing rhetoric within policy documents such as the Education Fiji 2020 and the Strategic Plan 2000 – 2002. Of most interest though is her observation that while—

Fiji is currently going through an unprecedented phase of educational policy document production (p.201)... [which express an] emphasis on the principals of neo-liberalism (p.202)... there is very little meaningful or willing engagement concerning how this new policy might be usefully applied to Fiji’s education system. Rather, the policy seems to just ‘sit there’, on display as it were, and the main function that it has served to date has been to do with planning for future teacher requirements, and for bureaucratic functions of resource allocation. These functions are of course very important, but it is clear that further steps have not been taken to ensure a closer link between official policies and context-bound settings (p.212).

Although this suggests a disconnect between policy and practice, there is nevertheless hints of neo-liberalism in the daily operations of Fijian education, a theme I will discuss shortly.

Another aspect of Chapter 2 was the criticism of modernisation and the suggestion that post-development provides a good alternative. It is worth deviating briefly to pose a question: what would an education system based on a post-development approach look like?

A POST-DEVELOPMENT APPROACH TO EDUCATION

In Chapter 2 post-development was explained as an evolving grassroots driven and controlled development paradigm (p.16). Key to this ideology is the elimination of hegemony and the legitimisation of local culture and traditional knowledge systems, including dialogue processes and spirituality (Peet & Hartwick, 2009:226-7). Unlike modernisation and neo-liberalism, very little has been written about what an education system informed by post-development would look like. In Chapter 2 it was explained that post-development is informed by post-colonial critique (p.16). Post-colonialism has discussed the theme of education, which aids in considering potential post-development education forms. Essentially post-colonialism seeks to counter inequality by providing opportunity for non-Westerners to expose power imbalances (McEwan, 2008:126). The relationship between knowledge and power is directly linked with education. According to post-colonial education commentators Risvi, Lindgard and Lavia (2006:257), educational institutions are environments for hegemonic
inculcation, but also places where resistance to the dominant discourses can be contested. Lavia (2006:291) stated that local teachers who are courageous in the face of colonial and globalised agendas through a commitment to their indigenous practices and knowledge are critical to such resistance.

In the case of post-development-styled education, Janzen (2008:12) suggests undertones of this are evident within local forms of indigenous knowledge transfer. Rancière (1991:45-9), in his interestingly titled text The Ignorant Schoolmaster: Five Lessons in Intellectual Emancipation, also hints at post-development. He suggests that equality in education must be the starting point rather than a future goal. He states that all people are equally intelligent and that intelligence is situational to given settings. Further, no one culture or education system has the right to suggest they are the qualification standard authority, therefore intellectual emancipation is freely available to all.

Freire’s (1997) Pedagogy of the Oppressed suggests a post-development-influenced education framework in which he repositions the top-down teaching methodology to one that views the learner as the knower (p.77-8,89-96). This creates “dialogical education” (p.78) between people, theorising education in contrast to hegemony. Freire argues for an approach based on “problem-posing” (p.85), where students and teachers collaborate in the creation of knowledge through meaningful dialogue – an approach that recognises the legitimacy of student knowledge, which in turn promotes empowerment at the local level (also see p.85,90-1,105). Janzen (2008:22) is not convinced though, questioning the value of Freire’s thesis and its links to a post-development education framework.

Janzen’s (2008:22) study on the pursuit of education by grassroots Ugandan women is interesting in that he initially appears to support a post-development approach, but by presentation’s end has done a 180 degree turn-around. Concerning Freire’s wider education argument, Janzen highlights a key principal of post-development – the rejection of external systems as being little more than hegemonic interference (Jakimow, 2008:321, McEwan, 2009:104; Nederveen Pieterse, 2010:119). He adds that post-development would prevent his grassroots research participants from accessing external resources such as “formal education opportunities” (p.22), potentially restricting them from an asset (p.23,26-7). What Janzen fails to appreciate is that post-development recognises that external resources have their place, but only if requested by the local as part of aiding their local knowledge systems and the building of empowerment (Escobar, 1995a:98).

With limited discussion in the literature to explain what constitutes a post-development education framework, further comment concerning this requires the identification and interpretation of related themes within emerging educational approaches in additional to those identified under a post-colonial approach. For the purpose of this I will draw on work by Rethinking Pacific Education Initiative for and by Pacific Peoples (RPEIPP), an indigenous Pasifika collective formed in 1990. The group has a strong post-development focus, seeking to encourage “Pacific peoples to rethink education in and for their own communities. Its [RPEIPP] stated aim is to enable the Pacific to redefine education on their terms so that it becomes a process that belongs to the Pacific, and more fully reflects their vision” (USP News, 2009:n/a)

RPEIPP member Nabobo-Baba (2006), as part of making suggestions to improve iTaukei education and learning, unknowingly presents what could be termed a post-development education framework. Her central thesis is the utilisation of teaching staff skilled in traditional knowledge, vakaturaga (the iTaukei respect-based ethos, see p.86) and indigenous methods of ‘curricula’ delivery and transference (p.130-1). The building of students “to belong or strongly identify” with their education environment is an essential attribute (p.130). “Schools emphasise individual achievement, competition and the like” – characteristics that Nabobo-Baba asserts contrast iTaukei importance of vanua, collectivism and reciprocity (p.130).

In 2009 the RPEIPP published Re-thinking Education Curricula in the Pacific: Challenges and Prospects (Sanga & Thaman, 2009), a collection of papers by “14 Pacific scholars”. One of those scholars, Bakalevu (2009:58), argues that the current maths curriculum is foreign to iTaukei students and therefore inhibits their ability “to conceptualise, relate to and make sense of the subject”. Instead she suggests utilising local concepts such
as the 10-cycle counting system, which quantifies in traditional ‘lot’ amounts, as opposed to individual items (p.65). Bakalevu (2009) also encourages the use of indigenous measuring values, which, in the case of iTaukei, comprises “measure using their body parts” (p.6). Additionally, kerekere, or a traditional form of purchase and transaction process, more closely related to reciprocity rather than cash-up-front, could be used as part of shopping-related math (p.65). These culturally based processes, Bakalevu suggests, legitimise local systems while offering a recognised reference point to aid greater levels of understanding (p.69).

In another chapter, Taufe’ulungaki (2009:125) explains the importance of local values, suggesting the inclusion of these in curricula is vitally important to a redefined Pasifika education system. In the iTaukei context, value of place or vanua, is the core principal of identity. She adds that a sense of identity is vital for increased social capital which in turn is “critical to their survival and prosperity” (p.134). This theme of identity, also raised by Nabobo-Baba, will be discussed in greater depth later in this chapter. In another chapter of the RPEIPP publication, Nabobo-Baba (2009:137-9) states that rethinking curriculum requires the reexamination of local processes, pedagogies, traditional values and indigenous knowledge. These must then be incorporated into learning processes to improve the education environment and its curricula. Having a stable cultural-based reference point to work from, Nabobo-Baba suggest, will better aid students as they face externally imposed change (p.155).

In a final example that suggests a post-development approach, Brison (2011) discusses kindergarten education since the adoption of a new 2009 curriculum by the MoE. This curriculum utilises cultural examples and the children’s own dialects as part of the learning processes (p.230,232). The head teacher at one preschool commented—

knowing their own language and culture empowers children... It is important to be identified as a Fijian [iTaukei], to be somebody. We are empowered with it when we go to other cultures. We have differences, so it's compulsory to teach them about Fijian [iTaukei] tradition” (p.236).

Put simply, these commentators argue the need for several requisites, namely local processes, structures, values and self-determination. These principles answer my question, what would a post-development framework look like? However, one qualifier is necessary. Under post-development, external systems can be utilised, but this must be at the discretion and under the direction of the local community (Radcliffe: 2006:17-8).

EDUCATION IN FIJI
Pre-contact Fiji was an oral culture where traditional forms of education were aimed at ensuring “cultural transmission and continuity” (Nabobo, 2000:4; also see Tavola, 1991:7; Dakuidreketi, 2004:26-8). The education ‘curriculum’ focussed on the child’s role within their mataqali (clan) such as turaga (chiefly responsibilities), sauturaga (executives to the chief), matanivanua (spokesmen of the chief), bete (priests), gonedau (fisherman), bati (warrior) and mataisau (carpenter) (Deane, 1921:118; Geddes, 1945:36; Derrick 1946:8; Bole, 1972:1; Veitayaki, 1995:70) together with appropriate behavioural expectations that comprise the vakaturaga ethos (Tavola, 1991:6; Nabobo & Teasdale, 1995:697). Therefore, according to Nabobo (2000:4), academic failure did not exist.

In 1836 education took on a marked change with the opening of mission schools (Wood, 1978:145-6). Tavola (1991:7-22) discusses at length this development of early education in Fiji. She states, “By 1839 there were 564 pupils in mission schools... [where] all reading material was religious... [therefore] evangelising and education were inextricably linked” (p.7). With many of these early schools overseen by Methodist missionaries, “Methodism... became grafted to Fijian [iTaukei] culture, rather than displacing it” (p.9). The missionaries procured “Chiefly decrees [that] were not subject to question; thus, school soon became a normal part of Fijian [iTaukei] childhood” (p.9).
Unlike the missionaries of the period, the British colonial rulers were less interested in advancing education (p.11-2). Instead they focused their attention on sugar cane production which led to the indenture of labourers from India in 1879 and resulted in approximately 60,000 arrivals by 1909 (p.10-11). Although a third of this number were eventually repatriated, those who remained went on to be known as Fiji Indians or Indo-Fijians, and more recently Fijians (Government of Fiji, 2010). They now comprise 37.5% of the population 34. Methodist missionaries together with the Marist Brothers, started the first schools for Fijians in 1898 although “the prevailing colonial attitude was that it would be self-defeating to educated Indians [Fijians] as they had been taken to Fiji to be an unskilled work force” (p.11).

The abolition of the indenture system in 1920 brought both freedom and limitations to the Fijians. On one hand they were now free from their ruraly isolated bonds. However, restrictions on land availability due to the Native Land Trust Ordinance 35 limited agricultural-based economic prospects. White (2001:311) noted that many Fijians resettled in urban areas, opening shops and small businesses, focussing their attention on education to further their economic and social prospects. She went on to say—

Indian mission leaders inspired the pursuit of political fights, economic opportunities, and formal education as a vehicle of upward mobility and to restore izzat, or honor, and thus erase the humiliation of indenture in the colony. Fijian Indians [Fijians] actively lobbied for qualified teachers and an academic curriculum, while the government emphasized a vocational curriculum for both Fijian [iTaukei] and Fiji Indian [Fijian] schools. By the 1940s, Fiji Indian [Fijian] rural primary schools were described as providing formal education of a higher standard than that of Fijian [iTaukei] primary schools and offering, on average, 2 more years of schooling.

This initiated a disparity in iTaukei Fijian educational attainment that persists to this day.

The “colonial attitude... that it would be self-defeating to educate Indians [Fijians]” also applied to iTaukei. Tavola (1991:13) stated that iTaukei “were considered a dying race in the 1920s as they had suffered heavy losses from introduced diseases. Gillion (1977:10) adds that the colonial government of the day regarded Fijians [iTaukei] “at best, as irrelevant to the progress of Fiji as their part in the mainstream of economic life was minimal.” Tavola (1991:19) goes on to cite an early “despatch from [the] Governor to [the] Secretary of State for the Colonies (C083/225/8)” (original not dated) who stated “the Fijians [iTaukei] are an agricultural people. There is, therefore, nothing in the racial composition of the Fijians [iTaukei] to warrant their education in European schools either in or out of Fiji”.

By the 1930s colonial attitudes began to temper. The Government introduced grant-in-aid schemes to selected schools and assisted in the conversion of many mission schools to secular establishments governed by local communities, heralding the introduction of the State/Community partnership (Tavola, 1991:20-1; Tavola, 2000:24-29; White, 2001:310). Education provision based on a “partnership between the state and the community” (Subramani, 2000:6; also see Bray, 2003:37) is important to later themes in this study (p.147). The majority of schools in Fiji continue to be owned, maintained and managed by village communities or religious organisations who receive financial contributions from the State in order to deliver educational services (Subramani, 2000:6; Nabobo-Baba et al., 2012:386). The State ensures appropriate levels of academic standard, sets the curriculum, pays teacher wages and provides teaching resources (Nabobo, 2001:68; Bray,2003:37; Nabobo-Baba et al., 2012:253,386).

34 The (latest) 2007 Fijian Government census reports a total population of 837,271 comprising 475,739 iTaukei, 313,798 Fijians and 47,734 other ethnicities (Fiji Islands Bureau of Statistics, 2011).
35 The Native Land Trust Ordinance (NLTO) came into effect in 1880 (Donnelly, Quanchi, & Kerr, 1994:41). Belshaw (1984:186-7) stated that the NLTO was “One of the earliest acts of enlightened administration in Fiji”. This was aimed at bring order to previous ‘flexible ‘chaos’. He added that the NLTO was aided by the identification of “various persons who occupied the appropriate chiefly roles for each [land] unit. Each named block of land was also identified, its boundaries described, and later surveyed and plotted on a detailed map. Each block was associated with a mataqali [clan] [in some cases a tokotaka [sub-clan]], which was then and there registered as the ‘owner’ in perpetuity... [This] registration system is the foundation of Fijian official land administration... and contained in the Native Lands Ordinance, Chapter 103 [and 104] of the Laws of Fiji” preventing the sale of that land “registered... in perpetuity” and setting out land lease restrictions. Today land is classified into three categories. “Mataqali [native] land” accounts for a total of 83.6% of all land in Fiji. 9.0% is “State (previously crown) land” with the remaining 7.4% “Feehold land... Mostly bought before 1874”, that being prior to the enactment of the NLTO (Donnelly, Quanchi, & Kerr, 1994:144).
Additional costs such as wages for administrative staff and school labourers, staff accommodation in rural areas and utilities, are the responsibility of the school and can create a heavy financial burden (Subramani, 2000:28). Nabobo-Baba et al., (2012:253) explains that essentially “it is their [the vanua’s] school. Vanua schools, built and owned by the Vanua – financed largely by it, like... [most] schools in Fiji with the exception of the handful owned by the Government”. She adds that these schools therefore “enjoy the economic capacities and other capacities of its communities; conversely they mark as well, community struggles and difficulties” (p.253). To assist, schools rely on voluntary assistance from the students’ parents, alumni and local community, who provide manual labour for the building of new facilities and the maintenance of existing structures together with the installation of services and provision of food items for boarding school meals. This is often undertaken at considerable personal cost, however without this voluntary assistance, most schools would fail to operate. Therefore well developed and maintained relationships with the community are critical to the successful operation of schools in Fiji. The State/Community partnership, while introduced over a half century before the term neo-liberal was coined, nevertheless hints at this theme, a discussion presented earlier in this chapter. I will return to this again in Chapter 9 where I describe the importance of community involvement in Fiji as part of facilitating education.

Colonial attitudinal changes in the 1930s also brought modification to the curriculum, shifting it away from its original proselytising function to a focus on agriculture. White (2001:310-11) adds that this was done—in order to prepare the Fijian [iTaukei] population for a rural village life steeped in subsistence farming... Thus, a curriculum in rural district and committee schools with increased emphasis on agricultural production complemented the objectives of colonial policies. As Fijians [iTaukei] were largely confined to the villages [36] and agriculture, formal education was not oriented toward instruction in skills that would prepare students for employment in urban areas. The exception was the formal education provided for Fijians [iTaukei] of chiefly descent who, it was envisaged, would take on civil service positions or assume leadership roles in the Fijian Administration. Fijians [iTaukei] of rank received postprimary education at select government schools for Fijians [iTaukei] and, in some cases, university education commensurate with their status as mediators between the Fijian [iTaukei] commoner masses and the colonial administration within a system of indirect rule.

Further, as Ravuvu (1988) explains, Government assistance in the form of grant-in-aid was also intended to be seen as a goodwill gesture to encourage “law-abiding citizens who would support and disseminate government policies... [and therefore] contribute to the modernisation and development” of Fiji (p.67).

Due to the traditional respect-based ethos of vakaturaga, the iTaukei “commoner” accepted without question colonial policy aimed at “formal education... for... [those of] chiefly descent”. Tavola (1991) comments that unlike the Fijians, iTaukei made no demands of the Government for changes to or increased levels of education, instead taking pride in the academic opportunities and successes of their chiefly oversights and relying on them to “represent their interests” (p.21). Comment that did come from the chiefly sector was overall limited to a call for “education with a local bias” (Scarr, 1983:340). This was led by Ratu Sir Lalabalavu Sukuna (1888-1958), an Oxford University-educated chief, soldier and statesman (Scarr, 1980:198-9). Together with many of his peers, he was concerned that education from a purely Western perspective would weaken vakaturaga and the culture. This in turn took pressure off educational improvements for iTaukei and led to further governmental neglect, a situation that continued until the early 1960s (Tavola, 1991:21-5).

CONSPIRING FACTORS IN ETHNIC EDUCATIONAL INEQUALITY

As Fiji headed toward independence from colonial rule in 1970, levels of disparity in educational attainment between the two major ethnicities, iTaukei and Fijian, increased. Tavola (1991:26-7) explains that in 1960 vastly more Fijian students (3,211) were enrolled in secondary schools when compared with iTaukei (1,162). Similar figures were recorded in 1969 with 8,330 Fijians and 3,964 iTaukei in secondary education (p.28).

36 “Official policy was to discourage Fijians [iTaukei] from leaving their villages, and education beyond the very elementary level was deemed unnecessary for those whose destiny was subsistence agriculture” (Tavola, 1991:19).
“Clearly Indians [Fijians] were staying at school longer and gaining qualifications for high status employment or tertiary education. The socio-political implications of this are obvious”, says Tavola (p.29). Viewed purely from the perspective of academic achievement, it could be said that Fijian restrictions to land usage under the NLTO had been positive. Deprivation in one area had, in the words of White (2001:311), “inspired the pursuit of... economic opportunities and formal education... [aiding] upward mobility”.

In contrast a number of factors “gave rise to little motivation [on the part of iTaukei] to join the monetized economy” (Tavola, 1991:21-2). These, as discussed above, included colonial policy, education restricted mostly to those from chiefly lineages, “education with a local bias” together with iTaukei communal values that encouraged community-based self-sufficiency and simultaneously frowned on “individual competitiveness” (Tavola, 1991:21-2). This in turn is reflected in secondary school attendance records and the increased disparity between iTaukei and Fijian educational attainment. Additionally, ethnic disparities in academic achievement mirrored ethnic contributions to modernisation. Fijians had not only aided the colonial modernisation mandate of increased economic opportunities through the production and export of sugar cane in the late 19th and early 20th century, but many had then gone on to embrace education as a means of upskilling as well as pursuing individualism and economic self-sufficiency through business ventures. All of this involved “urbanisation, increase[d] levels of literacy, education, wealth, and social mobilization” – all attributes of modernisation described by Huntington (2002:22).

Conversely, the majority of iTaukei remained within their villages and engaged in community-based subsistence agriculture. Admittedly a few iTaukei elite were able to take advantage of an education system aimed at producing white-collar workers capable of assisting the building of a modern economy, mostly in positions in the Fijian Administration (Tavola, 1991:15-6; White, 2001:311), however on the whole, iTaukei contributed very little to the country’s economic development. This “lagging behind... in economic matters” (Spate, 1959:1) prompted the Legislative Council to commission the 1959 Spate Report. With strong modernisation undertones (Overton, 1988:3; Tukai, 1988:14), the report recommended iTaukei move away from communalism and pursue individualistic “self-reliant” agriculture on communal land (p.1). As Spate (1959) put it, “a community of independent farmers living or working on holdings heritable” (p.9). This position contrasts the move toward individualised land holdings across many areas the Pacific, an action which Crocombe (1987:9) states was a “notable exception” in Fiji (also see Footnote 35). In regards to education, Spate unfortunately stated, “this... [area] is the most important and the most difficult”, although one “which I greatly regret I was not able to explore, owing to the limits of time and preoccupation” (p.97). This is a shame, as he could have greatly contributed to the educational debate as he did to other key Fijian development themes. His remaining comment was limited to the suggestion that there was a need for iTaukei “technical education”.

Tavola (1991:32) reports that when Fiji gained its independence in 1970, academic disparity between the two main ethnicities had created political, social and economic instability. “Education had indeed proved to be the passport for Indians [Fijians] to enter commerce and the professions... [however iTaukei] were increasingly conscious of their inferior position in the education stakes.” Although detailed accounts of the development of the Fijian education system are available for the years between 1970 and the early 2000s (Tavola, 1991:23-74,152-3; MoE, 2000:17-116) (when school enrolments increased significantly, especially for iTaukei), the overall theme of academic disparity between the ethnicities mostly reflected the pre-Independence era.
For instance, in 1979 Baba stated that eight years after Independence little had changed regarding iTaukei academic achievement. “In fact it seems to be looming larger” (p.16). He cited poor exam results and “a very high drop-out rate” for iTaukei when compared with Fijian students. Kishor, in 1983, compared the academic performance of iTaukei and Fijian students based on socio-cultural factors and motivation test results (p.299-301). He reported that Fijian students placed a higher value on education and were vastly more academically motivated than their iTaukei peers (p.306). Although Veramu’s 1992 (p.75-7) and Puamau’s 1999 (p.102-3) studies cite a lack of resources as a general factor affecting academia for both ethnicities, Veramu also point to a disinterest in education by rural iTaukei parents which subsequently created an educational apathy among their children.

In contrast, Nabuka’s 1984 (p.36-7) study argued that the home environment of Fijian students had a number of advantages that aided their academic achievement. These included parental assistance and encouragement with homework and other educational resources in the home, such as story books and higher levels of education attainment by guardians, which in turn stimulated the vocational aspirations of their charges. Nabuka stated that “Education becomes a joint family venture... [which is] important in influences on academic ability, achievement and motivation” – factors lacking in most iTaukei family environments (p.37). Connew (2007), who spent time with Fijian families in the early 2000s, explains the motivation behind this family support and encouragement–

Even during the school break... [parents] insist that... [children] spend time with homework and improve their English. Education and competence with the English language are recognised ways out of Fiji for Indian-Fijian [Fijian] children. It will be these children who will reach back after immigration to extract their parents from the country of their birth (p.69).

Drawing on some of these same studies, White (2001:323) suggests that iTaukei–

are less motivated academically since they may return to their villages to eke out a living as farmers in lieu of urban skilled employment should they fail in school. Fiji Indians [Fijians], by contrast, are... more reliant on formal education for material survival and, therefore, more inclined to invest significant resources in formal education as a safety valve in the face of land insecurity.

Further, because iTaukei place such great importance on communalism and the vakaturaga value of humility, they are reluctant to be seen to excel academically. Where this occurs it is deemed qaciqaciqaciqacia (‘showing off’) (p.329). This has in turn created a form of ‘cultural ambivalence’. Lynch & Szorenyi (2005:8) state that “Because it [iTaukei] is a communal society if they do well they have to learn to become a little more individualistic and it is a problem in Fiji. It is one of the reasons the Fijian [iTaukei] students are not doing as well as the Indian [Fijian] students”.

Although the primary focus of this section is to overview iTaukei and Fijian educational standing to the early 2000s, it is worth considering a comment by St. Clair Skett in 2007. She stated that iTaukei cultural conformity and a focus on agriculture “rather than... financial economics” are not issues of the past but are a “legacy [that] continues to the present”, disrupting educational systems and causing ongoing academic “uneven development” between the two main Fijian ethnicities (p.21).

The reason why a time marker for this present discussion has been set at the early 2000s is because the first year of the new millennium saw the release of the Ministry of Education’s (MoE) Learning together: Directions for Education in the Fiji Islands document. This “comprehensive review of Fiji’s education system” (Pene, Tavola, & Croghan, 2000:i) acted as one of two key influences to carrying out this research, and provides a resource I will now discuss.
THE ‘FAR-REACHING EFFECT’ OF UNDER-ACHIEVEMENT ON FIJIAN DEVELOPMENT

On the opening page of the MoE’s first “examination of the system as a whole”, it is clear that education in Fiji is deemed a key driver to “the achievement of [their] national development goals” by aiding productivity and economic growth (Subramani, 2000:1). In 2009, the Fijian Minister of Education Filipe Bole reasserted this position stating, “Education... was a catalyst for increased levels of labour production” (TPAF, 2009:1). Tuinamuana (2005:199) stated that although the Fijian Government has designed their education approach toward the achievement of their national development goals, in actuality these are influenced by “international trends” of neo-liberalism. Nabobo (2001) adds to this argument when she discussed the influence of the World Bank and IMF “in determining education policies and directions” for Fiji together with “globalisation and its neo-liberal policies, [which] are increasingly impacting on education in general” (p.57). She then presents a list of “challenges” facing Fijian education delivery (p.57-63), noting that “neo-liberal policies will have many implications for education” specifically funding shortages with the community having to provide the financial shortfall (p.57). Concluding her paper, she states, “with the onslaught of globalisation, the challenges of Fijian education have to be addressed with more urgency” (p.71). More recently Tuinamuana (2005) explained that neo-liberalism tends to be confined to “educational policy document production” (p.201) with “very little meaningful... application to Fiji’s education system” (p.212). This suggests that a disconnect exists between the ideology of neo-liberal education at the national level and its practicality at the coal-face. A final comment is worth making concerning the direction of Fijian education considering increased pressure from the World Bank and IMF, neo-liberal “challenges” to education and the influence of education with a local bias. In 2009 I met with the Minister of Education to ask which theoretical model he felt most influenced contemporary Fijian education. He began by acknowledging the need for education to consider the socio-cultural factors that underpin Fijian society and added that “we have evolved our own system, no one has told us” (Bole, pers. comm., Nov. 20). He continued, “the main [outside] influence had been in curriculum, and this has come from Australia, but this is because we sought it”. This certainly shows the continued influence of education with a local bias and hints at post-development utility at the national level through hybridity as discussed in Chapter 2 (p.20). Although Fiji is seeking to evolve their “own system” of education aimed at increased levels of labour production”, there appears to be a disconnect between educational approach, external influences and developmental desire. Moreover, if the education system in Fiji is struggling as has been indicated in the discussion above, it stands to reason that this is having an impact on the development of the country as a whole. This is an area the MoE have sought to address.

The contents of the Learning Together report acknowledge a struggle exists, stating that although the “education of all Fijians is a fundamental challenge for the whole nation”, iTaukei are the chief concern (Williams, 2000:179). While the report contains a section entitled “Issues affecting Indo-Fijians [Fijians] in education”, it is difficult to identify what these “issues” are outside of their preference for taking accounting, economics and science-based subjects over those in the humanities and arts, and a need to promote Fiji Bät (Fiji Hindi) as a valid language (Tavola, 2000:226). Overall, the report painted a bright future for Fijians stating—

[they] are very positively orientated toward education... education is seen as an investment and as a form of long-term security. Achievement in education has been a way out of the insecurity of sugar-cane farming for many people. Indo-Fijian [Fijian] children typically achieve well in school, as previous chapters have indicated.

The positive comments continue for almost another half page, making suggestions that Fijians are willing to make great sacrifices for education, Fijian communities have embraced and actively support the State/Community partnership, Fijian parents are highly supportive and actively encourage their children in education, and that potential career paths inform subject choices. This is reinforced by secondary school leaving exam results comparing Fijian and iTaukei students for the period 1989 to 1997, which shows vastly better pass rates for Fijians (Williams, 2000:179).

Alternatively, the report expresses concern at iTaukei under-achievement and the impact this is having on the meeting of national development goals. For instance—
the general academic status, performance and achievement of FijianiTaukeistudents at all levels remains a problem. The ‘education gap’ between...iTaukeiandFijian persists. Many students leave school with few or no formal qualifications and this has had far-reaching effects on the participation of FijiansiTaukei in the total socio-economic and political development of the country. The cumulative effect of these long-standing problems is that FijiansiTaukei suffer from many disadvantages, which have led to FijianiTaukeiunder-achievement in education (Williams, 2000:179,184)... Whether the school is rural or urban, this is the stereotyped view of FijianiTaukei education (p.184).

The report reviews literature such as Puamau’s (1999:101) study on factors believed to contribute to iTaukeiunder-achievement (Williams, 2000:186-8). In the paper she clusters these factors under “categories [such] as: socio-cultural, institutional, psychological, historical, structural and spatial disadvantage”. She presents these in a flow chart (p.105), although in most cases the elements within each category are broad-ranging and lack specifics. For instance, Puamau identifies “cultural” inhibitors to educational achievement as an “emphasis on the vanua, the church and the community; undervaluing of education; emphasis on the adult rather than the child; [and the] group emphasis [which] tends to discourage individual success” (p.105). No further explanation is given. What is interesting though is her specific identification of the “emphasis on drinking yaqona” (p.105), a practice invariably integral toiTaukei life-ways. The report also outlined what it termed “barriers to learning” (Education Review Office, 1995) – impediments to student academic achievement which include—

- poor attitude to learning, truancy, failure, lack of parental support, conflict between parental expectations and school programmes, family problems, financial problems, environmental restrictions, poor health and nutrition, bad teaching, inadequate student support, insufficient learning resources, and lack of study and learning skills (Williams, 2000:215).

Taking an alternative stance, the report cited Bole’s 1972 study, which suggests iTaukei culture is an important feature to academic achievement (p.4). Such conflict between the negative and positive attributes of culture to education prompted the MoE to call for an investigation into the relevance of iTaukei culture and values to education (2000:188).

REFLECTION

Although education was initially prescribed by missionaries in a homogenous manner to all ethnicities in Fiji, its application had two very different outcomes. For the Fijians, indentured from India starting in the late 1800s, circumstances conspired which encouraged them to embrace education for their own advantage and advancement which in turn has aided Fiji’s developmental agenda. However in the case of the indigenous population, colonial policy together with cultural values has led to high levels ofiTaukeiunder-achievement inhibiting the meeting of national development goals.

The MoE’s 2000 Learning Together report reviewed literature in an attempt to identify key factors influencing iTaukei academic failure. Key to this was Puamau’s (1999:105) paper which reviewed 17 earlier studies, allowing her the creation of a “framework to view Fijian iTaukei underachievement”. Within this she collected elements under key headings such as “institutional, socio-cultural [with a sub-heading ‘cultural’], psychological, historical, structural and spatial disadvantage[ing]” factors. Puamau summarised that collectively the elements within the framework “recognise the interplay between the dynamics”, with the picture which has emerged as being one “of complexity” (p.109). These complexities, together with informant comment to the review, led the MoE to request that “more research... be undertaken on the relevance of Fijian iTaukei values and... culture to the current education system”. And additionally, that “the relationship between the traditional life style and the demands of the school curriculum needs to be examined further” (Williams, 2000:188).

This is a key aim of my study. Instead of a broad sweeping investigation into the factors believed to impact on academic achievement, two specific elements have been selected from Puamau’s framework and the MoE Learning Together review. The first is “quality of teaching”, which Puamau (1999:105) designated an “institutional” factor. As mentioned, the MoE (Williams, 2000) review links this to “bad teaching” (p.215), an
element defined under a list of “barriers to learning” (p.187). Further, as discussed in Chapter 1, for the purpose of this study I have reconceptualised the MoE’s institutional classification of “quality of teaching” and will instead discuss it from the perspective of quality education delivery. I regard quality education delivery to be a more contemporary descriptor due to education’s fundamental link to national development. The second element is “drinking yaqona” (Williams, 2000:187), identified by Puamau (1999:105) as an inhibitor to educational achievement under “cultural” factors. For the purpose of this study I deem the “drinking” of this “cultural keystone species” to also include its related use-systems which fall under the rubric of traditional cultural practices, a theme I will discuss at length in Chapter 5. Essentially it has been the design and pursuit of contemporary development in Fiji that has brought these two contrasting systems to a traditional/contemporary tension.

QUALITY EDUCATION DELIVERY
In Chapter 2 I discussed productivity explaining that the superiority of any human input to the productive process is an important factor in quality of output (p.10). Voigt-Graf (2003:163) stated that while “Education has increasingly come to be seen as a potent development tool”, the success of that process is dependent upon the “quality of [that] education”. Quality education delivery is therefore deemed a productive input necessary specifically to superior education, but more broadly to achieving development. When applied to the Fijian situation, it can then be inferred that the national development goal is being threatened by substandard education delivery or “bad teaching” (Williams, 2000:215; also see Tavola, 1991:90-1). The MoE has taken steps to mitigate deficiencies in this area. For instance in October 2007, a group of senior staff and Curriculum Development Officers travelled to Perth to meet Australian peers and discuss and evaluate improved education delivery methods. A research participant who attended stated that this included discussion on best practice in teaching to aid quality education delivery (IQ004).

McGee & Fraser (2008) discuss quality education delivery and the attributes of The Professional Practice of Teaching. They begin by suggesting that the key to successful quality education delivery is the creation of a “culture of learning” based upon “roles” (Fraser, 2008a:1). The contributors assert that if these “roles” are applied and embraced with a “burden of responsibility” (Hall, 2008:225), in conjunction with student input, this will result not only in a “professional teacher” (Hall, 2008:221) but also “a community of learners” (Sewell & St. George, 2008:204).

These “roles” or teacher core competencies, contribute to the delivery of quality education and include “critical reflection” (McGee & Fraser, 2008:xvii), “hard work” (Fraser, 2008:2), flexibility while motivating, and offering students opportunities and accommodating different rates of learning (Fraser, 2008a:13, Barker, 2008:21) to “ensure that rules, routines and consequences are simple, purposeful and understandable” (Yates & Ussher; 2008:103). Additional roles, according to Fraser (2008b), include “stay[ing] relevant to the children they teach” (p.47), displaying a “depth of knowledge, an ongoing passion for learning, and desire to connect with students” (p.48), intuition (a skill that “cannot be reduced to technique [but has to be seen] from the students’ perspectives”) (p.50), and the intentional and frequent use of “quality feedback and feed-forward to students” (p.58).

McGee states that being an expert “facilitator” (p.81) – asking “rhetorical questions” in order to elevate discussion and learning (p.92) – is also vital (p.87). McGee adds this is a competency that is relatively easy to master as it “requires little more than memory recall or lower-order thinking” (p.87). Planning, time management, monitoring (Hill, 2008:136-7; Yates & Ussher; 2008:108), evaluating and assessing “to allow teachers to take advantage of changing circumstances” (McGee & Taylor, 2008:116), carried out ethically and with a “duty of care” (Hall, 2008:230), are also critical to the role of a teacher (Hall, 2008:225). Finally, Lang (2008) discusses a number of roles she argues is necessary, although their importance often goes unrecognised by teachers, especially in the early stages of their careers. She states, “the development of good time management skills” (p.252) outside of the classroom is important to creating “balance... between work, domestic responsibilities, and leisure activities” (p.243), and this must include adequate sleep which she suggested was “vitaly important” (p. 252).

These core competencies are the antithesis of “bad teaching’ and their use in the Fijian academic environment
would greatly aid the quality of teaching, which in turn would have a degree of positivity on national development. This theme is important to later aspects of the findings and discussions chapters. Prior to moving onto the second key focus of this study, yaqona, it is worth considering whether culture can also have a positive influence on education and its delivery. Such considerations not only add to the MoE’s request for more research into iTaukei values and culture, but also contribute to the core competency of teachers being “relevant to the children they teach” (Fraser, 2008b:47).

CULTURE AND EDUCATION
According to Dodd (1998:40), culture affords a “sense of social identity (who we are), [from which] one receives a sense of personal identity (who I am)”. This is most prevalent in collective, as opposed to individualistic societies (Dodd, 1998:40). In 1992, UNESCO reported that “the loss of culture” or cultural identity is at “the heart of our educational and social problems” (Teasdale & Teasdale, 1992a:1). They added that this is not limited to indigenous cultures, but also the “dominant societies of the west [who] have moved so far along the road of capitalism, with its emphasis on competition, the consumption of goods and services, and the exploitation of the world’s non-renewable resources that they too are losing their deepest roots”—in other words, development epitomized by the predominant development agenda. In turn this has also seriously impacted on socio-cultural stability. The report concluded that “culturally appropriate teaching and learning is integral” to socio-cultural stability, a process and goal that is reliant upon depth of cultural identity (Teasdale & Teasdale, 1992b:70). Thaman (1992a:30; 1992b:10-12; 1995:725) concurs, arguing that a lack of understanding of one’s personal culture is not only a factor in under-achievement but can also perpetuate a breakdown in values. I would suggest that in the iTaukei setting this loss of values manifests itself as a loss to vakaturaga, the ethos central to cultural stability and harmony (see p.86).

Literature supports the view that a strong relationship exists between cultural identity, self-worth and academic achievement. Shaffer & Kipp (2010:407-8), in a review of six publications, summarised that “Once ethnic identity is achieved, minority youth tend to display high self-esteem, better academic adjustment, better relations with parents, and more favourable assessments of peers of other ethnicities than their counterparts who still merely label themselves as a minority and are still ethnically diffused or foreclosed.” Oetting & Beauvais (1990-91:673-4), investigating cultural identity and academic performance among Amerindian adolescents, suggest strong cultural identity led to heightened levels of self-esteem which increased adjustment to the school environment and conversely, academic performance (also see Oetting, 1993:36). In their literature review on identity development and biculturalism LaFromboise, Coleman & Gerton (1993:403-4) concur, agreeing that cultural identity is critical to environmental adjustment which includes the education arena, with adjustment necessary to academic achievement. Phinney (1992) investigated cultural identity and its importance to self-worth among minority ethnicities (p.156), or “Black” compared with “White” high school students (p.157). He argues that a heightened sense of cultural identity equates to a more “secure sense of self” and higher levels of self-esteem (p.160), which in turn enables “Blacks” to attain greater levels of equality with “Whites” in educational settings (p.168-9,171).

From a Pasifika perspective, Suaalii (2010:n/a) studied the barriers to learning chemistry in Samoan secondary school classrooms and commented that a “lack of acknowledgement of our own culture and practice”—or aspects that comprise cultural identity—contribute to academic failure in the sciences. He adds that “with the inclusion of these important aspects, learning becomes meaningful and student achievement will be improved”, furthering the argument that cultural identity is important to academic achievement (also see Suaalii, 2011:209).

Concerning Fiji, Nabobo (2000:3) states that the inclusion of local knowledge as part of school curricula was necessary for student empowerment. For iTaukei students, she adds that the incorporation of culture is considered democratic, giving pupils an understanding that their own systems of learning have equal standing with those of their Western counterparts. The importance of cultural identity to academic achievement in the Fijian setting has not been relegated to the arena of theory. Nabobo & Teasdale (1995:699), reported that in 1992 the School of Education—
developed a course [to help] contextualize the teaching/learning processes, and that all courses must respect and affirm the cultures of the trainees… Ultimately trainees needed to be personally affirmed and strengthened in their own cultural identity so that they in turn could become effective agents of cultural renewal in the classroom.

Once in their teaching positions, the former trainees drew on the course material together with “maintain[ing] and strengthening their cultural identity by participating in community activities and ceremonies”. Further, they combined these experiences with “cultural education in the classroom… [and] used these opportunities to talk with students about the importance of culture and cultural opportunity” (p.703). Nabobo & Teasdale (1995:704-5) state that the most noticeable impact of the programme was empowerment of the trainees and students, aspects discussed above as important to higher levels of academic achievement. This initiative also offers a culturally informed input to aiding quality education delivery in addition to the “roles” or core teacher competencies, an approach that hints at post-development hybridity.

Considering cultural identity is a factor in academic achievement, teachers must be aware of local systems and values to incorporate these into the curriculum. An aspect critical to iTaukei (and increasingly Fijian) cultural identity is yaqona.

CULTURE AND THE SCHOOL CAMPUS

My earlier research explained how aspects of iTaukei culture comprise part of the curriculum at some schools (Aporosa, 2008:60-2). This can also be considered a continuation of “education with a local bias” as recommended in the mid 1900s (Scarr, 1980:198-9). For instance, vakaturaga values were taught in life-skill lessons, the making of traditional artefacts, including yaqona consumption receptacles, comprise art classes (see p.149) and qito vakaViti (traditional games) and make (dances) are learned and used during inter-school competitions and then presented at fundraisers and other significant events (see p.149-151; Brison, 2011:242). Female students weave ibe (mats) and make traditional hand-crafts to decorate venues for such events and join with the male students in preparing and cooking food in the lovo (traditional ground oven). Although adolescents are generally prohibited from consuming yaqona until aged 16 (Bureau of Fijian Affairs, 1999)38, male students are taught to mix aqueous yaqona and present this together with the raw plant during isevusevu as part of opening ceremonies. Isevusevu and yaqona are an important cultural expression. Ceremonies are important to both iTaukei and Fijian cultures (Walker, 2005:845) and student participation in the preparation and execution of these demonstrates and reinforces cultural importance and identity.

In my earlier research (Aporosa, 2008:61-2), I also included photographs of students presenting traditional gifts and yaqona to dignitaries at a school fundraising event. Additionally, I discussed the use of a similar photograph by Talatala Dr. Ilaitia Tuwere (2002:172) (a prominent iTaukei academic) within his book. He explained the reason for its use, commenting that it not only had “profound significance” but also gave him a “sense of pride” to see young iTaukei demonstrate their culture. I would suggest that such images continue to engender similar feelings among Fijian commentators. As recently as 2009, Sanga & Thaman presented a comparable photograph in their edited text, a collection of papers from a Pasifika education conference held in Fiji. Figure 4.1 shows that photograph, which depicts secondary school students from Nasinu, Suva, presenting isevusevu at the opening of the conference (p.28).

38 “Sa vakatabui na nodra gunuva na yaqona ni Viti na i taba gone ka lailai sobu na nodra yabaki ni bula main a yabaki 16 (Bureau of Fijian Affairs, 1999). [Youth under age 16 are forbidden to drink yaqona].” An exception to this is the medicinal administration of yaqona to children and youth by parents.
This photo demonstrates not only iTaukei-ness but ‘Fijian-ness’, cultural identity and pride. Isevusevu is a highly important, respected and authoritative action. It is one that creates, possesses and transfers mana while opening host/guest obligations and expectation. Therefore the participation of students rather than adults cannot be overlooked – as I concluded in my earlier research, “the teaching and understanding of culture, its practical application, together with its related components within the schooling system, which includes yaqona, is vital to the academic and holistic development of Fijian youth” (Aporosa, 2008:62).

Although the MoE and other sources recognise the importance of cultural identity and expression – which includes yaqona – to academic achievement, the Learning Together report is equally critical of its use by some teachers (Tavola, 2000:169)–

Yaqona drinking is important in ceremonial Fijian [iTaukei] culture and social gatherings, but excessive consumption of yaqona is becoming a problem. It absorbs income as well as removing fathers from the family. Many teachers in rural areas also become involved in excessive yaqona consumption, with the result that they are less effective in their professional work. Instances have been cited where teachers leave classes unattended while they drink yaqona. Jenkins and Singh [1996:35] noted that yaqona has an:

… ability to sap energy and support listlessness and there can be little doubt that it substantially inhibits performance of duties in non-traditional professional environments, including the civil service and teaching.

This highlights a divergence between the regulation and reality; there is a civil service regulation that prohibits the consumption of yaqona during working hours, apart from ceremonial occasions.

The “civil service regulation” mentioned here is a memorandum circulated by the Public Service Commission (PSC) in 1993 (Appendix C; PSC, 2003:n/a). It essentially discusses the “traditional significance” of yaqona, but raised concerns over consumption during working hours, suggesting departmental heads “monitor yaqona drinking… and if necessary, issue guidelines to ensure it does not become counter-productive” (Kikau, 2006:4). Schools were not specifically mentioned and enquiries with the MoE in 2006 revealed that the PSC memo was to be considered a “guide” with individual schools left to set their own standards. The value and limited applicability of that 1993 memo was discussed in my earlier research from the perspective of teachers. One informant suggested it was toothless, so “Why waste paper printing it?” (Aporosa, 2008:91) As if in response to the subjectivity of that earlier memorandum, the PSC replaced this with a 2007 circular entitled “Prohibition of drinking yaqona in Government workplaces” (Appendix D; also see Fiji Times, 2007d:11; PSC, 2007:n/a).
The following year the MoE added to the PCS memo, pointing out the potential effects from “excessive... drinking” outside of the workplace (Fiji Times, 2008a:10)–

Education Minister Filipe Bole... reminded teachers that excessive yaqona drinking is not good for them. ‘As teachers, it is absolutely vital that minds are alert and in tune to the daily classroom proceedings,’ he said. ‘To provide a teaching and learning experience that is surmountable with the expectations of students and stakeholders, teachers should not in any way be affected by over-consumption of yaqona... It is unprofessional and adversely affects service delivery - and is inconsistent with Public Service Values and Code of Conduct’.

This was followed in 2010 by the release of the MoE’s Policy in drugs and substance abuse in schools (MoE, 2010). “The purpose” stated the policy, “is to provide a framework for the prevention of use of drugs and substances in Fiji schools” (p.2). The key elements are as follows (p.2):

2.0 POLICY

2.1 The MoE does not permit the possession, consumption promotion, distribution, or sale of all harmful drugs. These will not be tolerated in school environment premises or at any school function within or outside the school. These drugs are:

2.1.1 Marijuana and other illicit drugs such as Cocaine, Heroin and other hard drugs
2.1.2 Tobacco
2.1.3 Alcohol
2.1.4 Inhalants

2.2 The MoE makes allowance for kava only to be used at ceremonial purposes in moderate amounts.

2.3 The MoE makes allowance that at any official function where liquor, kava and cigarettes are used then it should be held in private and away from school premises.

2.4 The MoE has declared all schools as smoke free zones.

2.5 Government employees are strictly prohibited from drinking yaqona during office hours including on government premises.

The only other reference to yaqona in the policy was (p.5):

4.18 Yaqona/Kava

It is a general term to describe the drink prepared from the different parts of the pepper plant piper methysticum.

This policy though makes no reference to the consumption of yaqona outside of work hours.

What is interesting here is that in 2007, the PSC categorically stated that yaqona drinking was prohibited in “Government workplaces”, of which schools are included. The MoE followed in 2008, endorsing this stance by stating that whether arising from consumption during work or after work, a teacher being affected by yaqona “is inconsistent with Public Service Values”. However, two years later the MoE policy “makes allowance for kava... at ceremonial purposes in moderate amounts.” This appears to be a difficult issue for the MoE, one that acts as a rationale to the study proper.
CONCLUSION
This chapter commenced by discussing education as an input to development under the umbrella of modernisation and more recently, neo-liberalism. An alternative to these approaches was suggested in the form of post-development. Post-development is driven by local systems, traditional knowledge, spirituality, “dialogical education” (Freire, 1997:78), empowerment and cultural identity to achieve development. By drawing on a number of post-development commentators, basic principles were presented that suggested the design of a post-development education approach, a model that has not previously been suggested (p.51-53).

The history of education in Fiji was then discussed. This explained that the colonial government’s modernisation pursuit in Fiji resulted in two very different academic pathways for iTaukei and Fijians, which in turn had marked impacts on the national development agenda. With the abolition of indenture, land restrictions left minimal prospects for Fijians who were forced to seek alternatives and, through their own initiative, embraced education and self-employment. This aided Fiji’s modernisation pursuit and the Fijians’ own “upward mobility” (White, 2001:311). In contrast, iTaukei educational aspirations were stifled by colonial policy which encouraged them to remain in their village homes and engage in subsistence agriculture on native land (Tavola, 1991:19; White, 2001:310-11). Education offered by the colonials was initially religious based and later heavily influenced agriculture and “education with a cultural bias” (Scarr, 1983:340) that promoted the continuance of the traditional vakaturaga values system and culture (Tavola, 1991:21; White, 2001:310-11). The values of the traditional culture maintained the use of yaqona, an outcome that contrasted with that of most of the other colonised countries in the Pacific. As discussed in Chapter 3, colonisation, missionary aims, the monetary economy and/or industrialisation frequently deemed indigenous substances a hindrance and a threat to modernity, productive processes and economic growth.

From a post-development perspective, the continued use of yaqona together with education with a cultural bias, has great merit as it is locally inspired and contributes to traditional knowledge continuance, empowerment and self-determination. However, this concept of education with a cultural bias was exploited by the colonials who used it to aid their own development aspirations, as it took away a great deal of financial responsibility and limited their commitment to education delivery (Tavola, 1991:21-5). Additionally, the continued use of yaqona and its related practices was in reality an unintentional by-product of colonially enforced isolation. Had colonial process matched those of the other countries (as discussed in Chapter 3), it is highly likely yaqona use would not feature as Fiji’s “cultural keystone species” today. Further, colonially imposed isolation also created a naivety among most iTaukei concerning the potential opportunities available to those who may have desired wider involvement in their nation’s development. The few iTaukei who did achieve academically were predominantly from the chiefly lineage, an opportunity accorded by the colonials as it aided their developmental pursuit (White, 2001:310-11). Villagers were left to vicariously live their own academic desires and success through their chiefly oversight.

Overall, iTaukei villagers were both empowered and disempowered by colonial policy. Isolation enabled them to retain much of their cultural expression. However, it equally prevented them from making decisions concerning the wider aspects of education and national development due to colonially created naivety brought about through enforced isolation. With only half of the country, namely the Fijian populace, committed to the colonial concept of education and economic advancement, this had a major impact on Fiji’s modernisation-influenced development pursuit, with iTaukei accused of causing the country to “lag seriously behind” in its developmental pursuit (Spate, 1959:1).

Following Independence in 1970, iTaukei were again criticised for lacking academic proficiency and inhibiting the “total socio-economic and political development of the country” due to their culture (Williams, 2000:179,184-8). The publication of the MoE’s 2000 Learning Together document focused largely on the reasons behind, and potential ways forward, in which iTaukei academic under-achievement could be mitigated and thereby aid “the achievement of national development goals” (Subramani, 2000:1). However, the report contains opposing opinions regarding the causes of under-achievement. For instance, a number of studies suggested iTaukei
“socio-cultural factors”, which included the consumption and use of the traditional substance *yaqona*, were at fault. “Bole, [the current Minister of Education] on the other hand, highlights the importance of values, Fijian [*iTaukei*] culture, self-esteem... concepts of knowledge as the influencing factors in achievement” (Williams, 2000:186-8). Recognising this difference of opinion, the MoE has sought “more research... on the relevance of Fijian [*iTaukei*] values and... culture to the current education system” (Williams, 2000:188). As stated, this study responds to that request by focusing on two specific elements.

This chapter closes with what appears to be a difficult issue being wrestled by the MoE, who have generated inconsistent policy and approaches. On one hand they have embraced education as an input to achieving national development, an aspect that is reliant upon quality education delivery. On the other, the country has as part of the national culture an indigenous substance the MoE recognise is “important in ceremonial Fijian [*iTaukei*] culture and social gatherings” although which simultaneously inhibits education by “adversely affect[ing education] service delivery” (Fiji Times, 2008a:10).

These two opposing elements; one traditional (*yaqona*) and the other contemporary (quality education delivery), have been brought together under Fiji’s national development pursuit in what I have termed a traditional/contemporary tension. In the Introduction chapter to this thesis I stated that there were two influencing factors that encouraged this research. The first was my own experience as a *yaqona* consuming teacher in Fiji (reflected in the opening narrative). The second was the realisation of this traditional/contemporary tension which included a request by the MoE for further research on the relevance of culture to the education system. The following chapter will discuss the significance of *yaqona* together with earlier findings concerning this indigenous substance and Fijian education.
THE CHAPTER 5
YAQONA AND EDUCATION IN FIJI

INTRODUCTION
The previous chapter concluded with what was described as a traditional/contemporary tension resulting from the union of two very different elements. One is quality education delivery, a contemporary development input regarded as necessary to Fiji’s economic growth and development strategy. The other is the use of the indigenous substance yaqona, which comprises a cultural element and ethos based in several thousand years of tradition and which the Fijian Ministry of Education (MoE) have suggested is one of several factors impacting the quality of education delivery in Fiji. As an added complexity, the use of yaqona within the school compound by students (who are taught to mix and present the aqueous beverage at ceremonial occasions), together with teachers (who consume it as part of culturally based reciprocal acknowledgement at these and other events), appears to be a key factor in reinforcing cultural identity. Further, the previous chapter highlighted the importance of identity to academic achievement. The aim of this chapter is to explain the wider characteristics of yaqona to the educational environment in Fiji. Up to this point the discussion on yaqona has been limited to the broader Pasifika perspective (Chapter 3) or to briefly give context to the MoE concerns. Commentary in this chapter will also enlarge on the importance of this indigenous substance to Fijian identity and cultural identification. Therefore, when this is applied to the concerns of the MoE, who have cited a conflict between the use of yaqona and quality education delivery, this suggests then that simply removing the indigenous substance from the school environment has the potential to be counter-productive.

Nevertheless, this course of action has been taken with other indigenous substances when their use was deemed a threat to externally introduced development ideals, a theme that informed Chapter 3. This resulted in the loss of large amounts of traditional knowledge within some cultures. A post-development perspective would suggest this form of externally imposed action is hegemonic and culturally disempowering, one that also inhibits successful development within developing nations (Gibson-Graham, 2005:4). Considering education is a key input to development, yaqona is critical to Fijian cultural identity (as this chapter will show), and identity is argued to be an important factor in academic achievement, this highlights the complexities involved in the traditional/contemporary tension which is unfolding.

I would like to reiterate again at this point that with the exception of the MoEs brief comment in the previous chapter, which drew on Jenkins & Singh’s (1996:35) brief observation that yaqona is believed to be impacting education, this topic had not been investigated until my 2008 research. This has necessitated that I draw on my 2008 study along with related literature to assist the chapter’s aim. Themes discussed in this chapter include the significance of the “cultural keystone species” to Fiji together with its ‘currency’ in presentation, yaqona as cultural identity to both iTaukei and Fijians, consumption rates, duration and reason, intoxication, post-consumption impact and productivity, and finally, perceived implications to yaqona-consuming teachers. These themes will inform the results and discussion chapters and will commence with an overview of the “cultural keystone species” within the Fijian environment.

YAQONA: AN OVERVIEW
In Chapter 3 I discussed the features of the indigenous substance kava, or yaqona as it is known in Fiji, within the wider Pasifika context. This included the medicinal and physiological effects together with a comparison of its intoxicant feelings when compared with alcohol (Aporosa, 2011a:158-160). Also discussed was yaqona’s anxiolytic properties and cross-dependency with Benzodiazepine drugs together with the pharmacologically recommended maximum daily dose of 200mgs (Mediherb, 1994b:2). Lomaloma ca (or yaqona hangover) was also introduced, followed by changes brought to the traditional use systems of the traditional preparation that resulted from colonial contact, a situation I will discuss shortly concerning yaqona in Fiji. Although Garibaldi & Turner (2004:1-5) do not specifically mention yaqona in their discussion on “cultural keystone species” (as
presented in Chapter 3, p.23), this indigenous substance undoubtedly holds this position in Fiji. For example, Turner (1986:209) states that “the drinking of yaqona in Fiji amounts to a sacred work” irrespective of the reason or mood of those gathered. Once mixed into its aqueous form it is referred to as wainivanua (Tomlinson, 2009:109). Waini, literally means ‘water of’, while vanua—

literally means land, but also refers to the social and cultural aspects of the physical environment identified with a social group. On the social plane it includes the people and how they are socially structured and related to one another. On the cultural plane it embodies the values, beliefs and the common ways of doing things (Ravuvu, 1983:76).

Pigliasco (2011:325) adds, “The vanua considers land, water, customary practices, and human environment as one and indivisible” and Tomlinson (2012:218) explains that “vanua is inextricably tied to an idealized tradition”. Further, Nabobo-Baba et al. (2012:23) state, “Vanua… is not only about their [iTaukei] land, it defines their sense of identity, their spiritual roots, their relationships, their knowledge and language”. Therefore, wainivanua infers an ingestable representation of the land, people, culture and practices which is deeply rooted in their sense of identity and customary practices of the past. Additionally, yaqona when mixed into its beverage form becomes a sacred and living entity, one that both embodies mana and has the ability to enhance a person’s mana (Turner, 1986:209; Tomlinson, 2004:669). In most villages across Fiji, the working day concludes with men, and occasionally women, sitting crosslegged at the tanoa (yaqona bowl) discussing the day and plans for the next, together with the latest news or gossip (Aporosa, 2008:80-82). According to Ratuva (2007:92-6,98-9) and Vakabua (2007:103), the drinking of yaqona demonstrates, externalizes and personifies ‘Fijian-ness’ and the Fijian way. I have deliberately retained the term ‘Fijian-ness’ here and not substituted it with iTaukei-ness. This is due to the importance of yaqona to both iTaukei and Fijians. Therefore collectively, the aspects of wainivanua and mana solidify yaqona’s status as Fiji’s “cultural keystone species”.

Historically, post-colonisation yaqona use in Fiji reflected that of Tonga and Sāmoa, as opposed to many of the other Pacific countries where the traditional preparation underwent great use change and in some circumstances eradication (see p.40-44). Minimal change in Fiji was due to the primary religious influence of the day, ”Methodism… [which] grafted to Fijian [iTaukei] culture, rather than displacing it” (Tavola, 1991:9). This suggests notions of post-developmental hybridity as discussed in Chapter 2 (p.20) where I drew on the work of Curry (2003). Where change did occur it was minimal. One of the most obvious changes though was the pre-colonial use of yaqona by the bete (traditional priests) as part of communication with the Vu (traditional gods) (Crowley, 1994:90). Bete did this in isolation away from the community, a contrast to introduced Christian-styled congregational meetings, which are all-inclusive (Tuwere, 2002:52-4). This led to criticism of solo yaqona consumption, or gunu taudua, believed to comprise vakatevoro (witchcraft, demonic activity and cursing) due to the pre-colonial bete-use style (Turner, 1986:208; Katz, 1993:138; Toren, 1999:34; Kava, 2001:293; Tomlinson, 2006:16-7; Toren, 2007:315-16). As such, contemporary yaqona consumption is a communal activity.

The early colonial government also reinforced the Methodists’ positive attitude toward cultural retention. For instance, “Sir Arthur Hamilton Gordon, the first Governor of Fiji, made it law that toasts should be drunk in this beverage [yaqona] on all public occasions… Consequently we find that our own English princes, when in Fiji, were disposed to conform to native etiquette, and observe this ceremony” (Vernon, 1890:127). This “toast”, more commonly known as isevusevu, is a key feature of yaqona use.

ISEVUSEVU

In her book exploring iTaukei culture and identity, Brison (2007:15-16) opens a chapter focused on ceremony by stating, “There is perhaps nothing that captures the essence of Fijian [iTaukei] culture better than the sevusevu, the ceremonial presentation of kava (Fijian: yaqona). The sevusevu is a central component of all life cycle rituals, social gatherings, healing ceremonies, and community meetings.” Brison draws on a quote by a travel writer which “illustrates the way that the sevusevu has become emblematic of [iTaukei] culture”–
the ceremonial preparation (of kava) is the most honored feature of the formal life of Fijians \textit{[iTaukei]}... It is performed with the utmost gravity according to a sacramental ritual to mark births, marriages, deaths, official visits, the installation of a new chief, etc... The guests present a bundle of \textit{waka} (dried \textit{yaqona} root) to the hosts, along with a short speech explaining their visit, a custom known as \textit{sevusevu}. The \textit{sevusevu} is received by the hosts and acknowledged with a short speech of acceptance.... \textit{[After the ceremonial mixing of the kava, the] mata ni vanua (chief’s spokesman) then says ‘\textit{taloi}’ (‘serve’). The cupbearer squats in front of the \textit{tanoa} (bowl) with a \textit{mbilo} (half coconut shell), which the mixer fills. The cupbearer then presents the first cup to the guest of honor, who claps once and drains it, and everyone claps three times. The second cup goes to the guests’ mata ni vanua, who claps once and drinks. The man sitting next to the mixer says ‘\textit{aa}’, and everyone answers ‘\textit{matha}’ (‘empty’). The third cup is for the local chief, who claps once before drinking, and everyone claps three times after. Then the mata ni vanua of the first local chief claps once and drinks, and everyone says ‘\textit{matha}’. The same occurs of the second local chief and his mata ni vanua. After these six men have finished their cups, the mixer announces, ‘\textit{Sa matha saka tu na yaggona vaka turanga}’ (‘the bowl is empty my chief’), and the mata ni vanua says ‘\textit{thombo}’ (‘clap’). The mixer then runs both hands around the rim of the \textit{tanoa} and claps three times. This terminates the full ceremony, but then a second bowl is prepared and everyone drinks. During the drinking of the first bowl complete silence must be maintained \textit{[Stanley, 1996:528-529]}.

\textbf{Nuikula (2003:208-9) expands on this by explaining the transformative and sacred meaning behind the \textit{isevusevu}:}

The Fijian \textit{[iTaukei]} presentation ceremony is an act of transformation. It transforms ordinary objects, such as... \textit{yaqona} (kava, or ceremonial drink)... from an inferior state to a superior state. When these objects... are being offered in a ceremonial way, their quality is transformed to a higher, more sacred level. They are transformed into sacredness. Furthermore, what was once personal has become public. What was once small and unimportant is transformed into something of greater value.

One final comment is worth noting – \textit{isevusevu} from the host’s perspective. Ford (1967:170) summarises–

\textit{[isevusevu]} is the only chiefly way to welcome [a] visitor. Sharing a bowl of \textit{kava} tends to foster socialising and friendship and to the Fijian \textit{[iTaukei]} it is unthinkable that \textit{kava} should not be a part of commemorating any event. The practice is solidly embedded in a social and political context.

Although the explanation above describes a village setting with “local chiefs... [and] mata ni vanua”, the principles equally apply to the school campus, where the principal is deemed to hold the ‘chiefly’ position and their \textit{matanivanua} is usually appointed from within the staff. Additionally, \textit{isevusevu} is a common practice at many schools across Fiji, a theme I discussed in my earlier research where I explained its importance to the opening of celebrations, fundraising events, acknowledging hierarchy and reciprocity (Aporosa, 2008:34-8,100-1,109). Also explained in that previous study was the obligation felt by many teachers to attend \textit{isevusevu}, especially when guests of chiefly rank or high position were present (Aporosa, 2008:36-7,83,85). This is known to take teachers away from the classroom leaving their students unattended, a situation cited in the MoE’s \textit{Learning Together} report as a factor suggested as contributing to \textit{iTaukei} under-achievement (see p.63 this study). Alternative forms of \textit{isevusevu} presentation, believed to limit the impacts of teachers leaving students unattended in the classroom, were also discussed in my Masters’ research (Aporosa, 2008:37,100-1). These included limiting teacher attendance to the specific ‘spoken’ aspect of the \textit{isevusevu}, where upon they would immediately return to their classroom or alternatively the presentation of a ‘dry’ \textit{isevusevu}. This involved the presentation of \textit{yaqona} only, without mixing it into the aqueous beverage, and with this postponed until the completion of the school day. The aim of this was to offer the MoE alternatives to the outright banning of \textit{isevusevu}. Some positive feedback was received from several Senior Education Officer’s (SEO) and school principals concerning these alternatives. Irrespective, \textit{isevusevu} continues to play a key role at major school events, and board and parent-teacher meetings, reflecting the protocols observed in general Fijian society.

In the previous chapter I discussed the importance of ceremony to the cultural identities of both \textit{iTaukei} and \textit{Fijians} (p.62). \textit{Isevusevu} by students at school events was also presented, a practice acknowledged by \textit{Talatala} Dr. Ilaitia Tuwere as demonstrating ‘Fijian-ness’, cultural identity and pride (p.63). Additionally, in the previous

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chapter I stated that due to the literature arguing cultural identity as important to academic achievement, teachers need to be aware of local systems and values and incorporate these into the curriculum (p.62). Cultural identity and kava in the Pacific context was discussed in Chapter 3 (p.38). This will now be narrowed to focus on yaqona and cultural identity in Fiji.

**Yaqona and Cultural Identity**

Linnekin (1990:158-60) states that symbols and icons are an important part of defining Pasifikan collectivist identity. In Fiji, yaqona and its related utensils and practices are icons and symbols that make salient the union of this “cultural keystone species” with identity. These emblems are also drawn on as symbols of nationalism. For instance, the tanoa is depicted on the Fijian one cent piece (Figure 5.1) and also comprises the logo and trophy of the annual Ratu Sukuna Bowl inter-services (Police versus Army) rugby competition (Figure 5.2), one of the country’s leading sports fixtures after the rugby sevens tournament (Dean & Ritova, 1988:118). The union of the tanoa with Ratu Sir Lalabalavu Sukuna (1888-1958), Fijian chief, soldier, statesman scholar and a man considered to have personified the ideal iTaukei, further demonstrates Fijian-ness (Scarr, 1980:198-9; Lal, 1985:433). Vastly more overt references can be seen within Tourism Fiji advertising, on postcards (Figures 5.3 and 5.4) and prepaid telecards (Figures 5.5).

According to Ratuva (2007:92-6,98-9) and Vakabua (2007:103) the drinking of yaqona demonstrates, externalises and personifies ‘Fijian-ness’ and the Fijian way. Yaqona and identity are central themes in Professor Ian Gaskell’s (2001b) book which reviewed and critiqued eight Fijian theatrical dramas. He states that these presentations “express a collective image of Fiji” (2001a:8). One drama in particular he comments was a–

... depiction of life in a Fijian [iTaukei] village. The play is infused with the objects, forms and rhetoric of Fijian [iTaukei] ritual. No less than six of the nine scenes, for example, are staged around the kava bowl. As a cultural symbol, kava consumption serves to create a sense of authenticity, an assertion of a particularly Fijian [iTaukei] context for the action (2001b:10).

As if to reinforce this point, the cover of his book depicts iTaukei mixing yaqona. He adds, “The final scene is clearly an affirmation of cultural identity, represented by the... formal use of kava” (2001b:10). Referring to another drama, Gaskell describes a scene in which a character is urged to consume yaqona, suggesting that this is a ‘powerful identification with Fijian [iTaukei] culture’.

The Fijian Government also illustrated the importance of yaqona to identity in a recent publication of New Dawn (Ministry of Information, 2010:1-3). The article discusses the work of the Institute of iTaukei Language and Culture and their aim to “preserve iTaukei identity”. Although no written reference is made to yaqona, the story features a large photograph of two iTaukei dressed in traditional costume mixing the beverage; clearly linking the practice with the stated objective of preserving cultural identity. Moreover, while this article and those discussed above (Gaskell, Ratuva and Vakabua) collectively demonstrate the union between yaqona and iTaukei identity, it is Degei (2008:n/a) who potentially offers the most conclusive comment on this theme. A lecturer at the Department of Fijian Studies at the University of the South Pacific, Degei developed this statement by drawing on six sources of literature, some by prominent academics such as Marshall Sahlins (2004:161-3), Ron Brunton (1988:16-17) and Christina Toren (1990:90,99). He asserts, “To the Fijians [iTaukei], yaqona is a link to the past, a tradition so inextricably woven into the fabric of culture, that life and social processes would be unimaginable without it. Although the use of kava is common among other people groups in the South Pacific, for the Fijian [iTaukei], yaqona is clearly linked to concepts of identity” (also see Cowling, 1988:43; Langi, 1992:41; Kay, 2006:1).
Figure 5.1
Fijian one cent piece (2006).
(Source: Government of Fiji).

Figure 5.2
Polo-shirt logo: Ratu Sukuna Bowl.
(Source: Republic of Fiji Military Forces, 2009).

Figure 5.3
Postcard: iTaukei serving yaqona.
(Source: Siers, J., c1979, author of Fiji in Colour).

Figure 5.4
Postcard: tanoa (yaqona bowl) and images of sale, export and research.
(Source: University of the South Pacific, undated).

Figure 5.5
Telecard: iTaukei mixing yaqona.
(Source: Fiji Posts & Telecommunications Limited, 1994).
Yaqona is also used by kailoma (those of mixed European-iTaukei ancestry) to demonstrate their Fijian identity. Peter Thomson (1999:5), a “fifth generation Fiji Islander of Scottish decent”, who was born and educated there and went on to become the Permanent Secretary to the Governor General during the coup d’état of 1987, exemplifies this. Thomson, a kailoma with strong European features and light-coloured skin, presents his memoirs in a book he entitled Kava in the Blood. He describes yaqona “in our islands [as] the wai ni vanua, the beverage that comes from the very land under our feet” (1999:66, emphasis mine). He then asserts—

I present myself in kava’s tribute as one who has known it in most of its guises. I was once a kava farmer, planting it on the upper slopes of Taveuni and selling it in the markets of Viti Levu. I drank an average of some ten bowls of kava per working day in my sixteen years in the Fiji civil service. I drank it in hill villages, sosoko [concentrated strength] from deep coconut bilo; I drank it watered down from enameled pyala [small enamel bowl, see Figure 7.3] in the rear of Gugerati shops; I accepted and presented it as ceremonial sevusevu countless times; I dispensed it to curious Japanese at Fiji trade missions in Tokyo; I drank it dried and I drank it green [yaqona mixed using fresh undried waka], I did everything with it but inject it into my veins. Kava is in my blood. (p.66)

Here Thomson is asserting his identity through his yaqona use. Stanley (1996:529) illustrated the connectedness between yaqona, the physical being and identity when he states, “Some say the Fijians have yanggona [sic] rather than blood in their veins.” I would add that this overt use of the indigenous substance as part of authenticating identity is common across many mixed race Pasifikan’s. I have a number of New Zealand-born Tongan, Sāmoan and Rarotongan friends of mixed (European) ancestry who are vocal and obvious about their kava consumption, essentially using this as a visible means of affirming and demonstrating their Pasifika-ness. I also fall into this category. As an insider/outsider (a concept I will explain in the following chapter), yaqona’s is also an expression of my own identity and iTaukei-ness.

Demonstration of identity through yaqona is also obvious among expatriate Fijians living in New Zealand. For instance, members of the Hamilton Fiji-Indian Community frequently consume yaqona at gatherings. At a recent wedding, a group from within this community who originated from Labasa in the tikina (district) of Macuata, Vanua Levu, proudly pointed out to visitors a tanoa poi (kava bowl made from a fishing float, see footnote 56) engraved with their vanua name (Figure 5.6). In a discussion with a Tongan attendee, these Fijians assured that their yaqona (imported from Fiji) was better quality and stronger than that cultivated in Tonga, a mannerism also used to assert identity.

Yaqona grown in one’s own vanua is frequently used to affirm identity. While I have consumed kava from many areas across the Pacific, from Pohnpei to Hawaii, I have found the best yaqona for taste, strength, purity, sharpness of ‘intoxication’ and ‘cleanliness’ of lomaloma ca is waka kari (yaqona root with skin removed prior to pounding to powder and mixing with water) from Nabukilevu tikina in Kadavu, southern Fiji. This is an admission I should not make, considering I yavusa (belong genealogically) to Macuata in the very north of Fiji. In contrast, I have consumed faikava with Tongans, who have assured me that the weak, adulterated foul tasting beverage I was drinking at the time was the purest, strongest and best-tasting kava in the world.

40 Gujarati were free migrants who entered Fiji after the indenture period to pursue business opportunities (Brison, 2011:232).
Further, I have consumed yaqona in a village in the central highlands of Viti Levu, Fiji, where locals attempted to convince me that the beverage we were consuming, derived from five year-old waka, was vastly stronger than three year old Kadavu yaqona (although to me it was not). As I mentioned, what is at stake here is pride, loyalty, strength and identity based in local vanua and asserted through the quality and strength of local yaqona. Troost (2006:64-5) encapsulates this ideology when he recounts a conversation with two ni-Vanuatu in which he contrasted the yaqona intoxication experience and consumption volumes with that of namaloku and nekava in Vanuatu. One of the ni-Vanuatu responded—

‘But this isn’t Fiji kava. This is Vanuatu kava, from Pentecost Island. It is the best in the world. Very strong.’

I asked him what his home island was.

‘I am from Pentecost Island,’ he said.

Of course I thought. Kava grows on every island with a hill in the South Pacific, and in conversation with other islanders, I had yet to meet anyone who didn’t champion the supremacy of their own island’s kava.

The themes of vanua, yaqona and identity will be extrapolated in Chapter 7 where consumption quantity will be shown to demonstrate cultural identity. It is valuable then to consider who is consuming yaqona and how much.

**YAQONA CONSUMPTION BY ETHNICITY AND GENDER**

Levels of yaqona consumption in Fiji are difficult to quantify. For instance, I have been with people I had only recently consumed yaqona with who, when asked if they drank the traditional preparation, responded, to my surprise, “no”. I later learned that this was because the inquirer was a family member who frowned on yaqona consumption. Similarly I was with a friend consuming yaqona who requested I not tell anyone because he attends one of the new Pentecostal denominations that is highly critical of its use, linking it with vakatevoro (literally meaning ‘witchcraft’; Aporosa, 2011b:7-9). Further, a teacher during my Masters study chose not to submit a questionnaire as this would have shown he had consumed yaqona over the previous seven nights, potentially revealing he was “a bad teacher who drank too much grog” (Aporosa, 2008:73-4).

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41 The link between yaqona and identity is disputed by a minority in Fiji. These people, who include a handful of academics, are mostly parishioners from one of the new Christian denominations. In 2010, while speaking at a conference, I was challenged by two iTaukei doctoral students who argued that yaqona did not comprise their identity and therefore the identity of all iTaukei. This challenge prompted me to discuss this theme in a paper by drawing on literature and ethnographic accounts (some from within this study) together with psychology’s Ecological Levels (also known as Systems theory) (Dalton, Elias & Wandersman, 2001:10-13; Newman & Newman, 2011:50). I concluded by arguing that the desires of a minority do not alter the indigenous substance’s fundamental link with identity for the majority of iTaukei, a union which academics argue is also Pasifika wide (Aporosa, 2011b).
Alternatively, I have heard countless reports of and from those who imagine they are *heavyweight grog swipers* (colloquialism for a person who can consume high volumes of *yaqona* over a lengthy period) only to observe the opposite. Therefore, accurate consumption figures are far from an exact science.

The 2004 *Fiji National Nutrition Survey (FNNS)* (Schultz, Vatucawaqa & Tuivaga, 2007) appears to be the most comprehensive study available to aid understanding of *yaqona* consumption level. This was a nation-wide study that surveyed 7,372 participants of all ages, ethnicities and vocations in a “cross-sectional community sample” (p.1,13). From this group 2,508 males and 2,882 female were identified as *yaqona* users. Unfortunately the survey did not present a detailed break-down of participants by age. This would have enabled those 16 years (the age at which *yaqona* use most often commences, see Footnote 38) and over to be identified. By applying this to the data it would have then been possible to estimate the overall proportion of users and non-users Fiji wide. Those in the survey who indicated they had used *yaqona*, whether infrequently for medicinal purposes or more often at consumption sessions, were interviewed. The findings are presented in several tables in the report and have been condensed and reproduced in Table 5.1.

Essentially, Table 5.1 shows that of those sampled, more males (63.9%) consume *yaqona* than females (31.2%) (also see FNNS findings p.217). By ethnicity, overall more *iTaukei* males (67.8%, n = 955) consume *yaqona* when compared with *Fijian* males (58.6%, n = 609). *iTaukei* females (47.6%, n = 767) are recorded as drinking vastly more of the indigenous substance than their *Fijian* (8.7%, n = 29) counterparts. This is not surprising as it is rare to see *Fijian* woman consuming *yaqona* with the exception of occasional medicinal use.

Table 5.1
*Yaqona* consumption by ethnicity and gender.

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Male</th>
<th>Female</th>
<th>Number of days <em>yaqona</em> consumed per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 2 days</td>
<td>2-6 days</td>
<td>daily</td>
</tr>
<tr>
<td>iTaukei</td>
<td>67.8%</td>
<td>47.6%</td>
<td>73.3%</td>
</tr>
<tr>
<td>Fijian</td>
<td>58.6%</td>
<td>8.7%</td>
<td>57.3%</td>
</tr>
<tr>
<td>Combined ethnicities</td>
<td>63.9%</td>
<td>31.2%</td>
<td>69.1%</td>
</tr>
</tbody>
</table>

(Source: Reproduce and modified from Schultz, Vatucawaqa & Tuivaga, 2007:179,180).

Table 5.1 also details *yaqona* use frequency. This shows that most (69.1%) drink the traditional preparation less than two days per week, whereas 19.7% drink between two to six days per week and only 11.2% imbibe every day. It must be pointed out though that the ‘less than two days per week’ category is a problematic classification, as this includes those who drink very occasionally, such as one day per year, through to those who may drink vast quantities on one day per week. Finally, more *Fijians* (18.1%) consumed on a daily bases when compared with *iTaukei* (8.7%). This is interesting considering the discussion above which presented the strong link between *iTaukei* identity and *yaqona*.

The second study to aid in understanding *yaqona* consumption levels is a 2007 University of the South Pacific (USP) investigation. This surveyed 480 participants of mixed age, ethnicity and gender from two large tikina (districts) as part of a study into the socio-economic impacts of *yaqona* consumption (Newland, 2008:n/a; Appendix E, slide 12)42. Fifteen male and female *yaqona* consumers from each tikina were selected for further interview regarding their drinking habits. The preliminary results suggest that 23.3% of the participants consumed *yaqona* less than two days per week, while the majority, 63.3%, drank between two and six days, with the remaining 13.3% drinking every day. When compared with the 2004 FNNS, these figures tend to suggest a significant increase in the number of participants drinking from two to six days per week whereas those who consume *yaqona* on a daily basis was only slightly higher.

42 This investigation was a joint effort between the Faculty of Business and Economics and Faculty of Arts and Law. Participants were drawn from the Rakiraki tikina (district) on the main island of Viti Levu and Nasawana tikina on Vanua Levu. The results are still being compiled (Newland, S. 2012, pers. comm. 30 March) with the data used here extracted from two powerpoint slides (see Appendix E).
Unfortunately the FNNS did not detail the number of hours consumers spent drinking at yaqona sessions. This was however a consideration within the 2007 USP study.

**Yaqona Consumption Duration**

The preliminary results of the 2007 USP study implied that the average length of time females spent drinking at yaqona sessions was between two and three hours (Appendix E, slide 13). Having attended well over a thousand yaqona sessions, I would agree with this\(^{43}\). The data included two females who stated they had consumed yaqona for an average of eight hours at sessions they attended. Again from personal experience, I do know a few iTaukei women who are extremely heavy yaqona consumers and drink for these periods. Some of these women appear to take pride in demonstrating their consumption abilities and will sit to the side and quietly goad their male counterparts with bole (challenge).

This USP study also suggested that the majority of the men surveyed consumed yaqona for an average of five hours at each session (Appendix E, slide 13). One man indicated he usually drank for seven hours while two other males stated they consumed the indigenous substance for an average of nine hours at sessions. This is not uncommon. I have frequently attended yaqona sessions in Fiji in excess of 10 hours. In New Zealand, mid-week consumption lengths of seven to eight hours are common, as are Friday and Saturday night sessions of 12 hours or more. Tomlinson (2004:657) stated, “In the late 1990s and early 2000s kava was drunk in large quantities by most adult men every night in Tavuki [Kadavu, Fiji] village”. This comment was the result of a week-long survey conducted in order to document the number of hours he personally spent consuming yaqona with local Tavuki-ites. Tomlinson added that, from his experience travelling throughout Fiji, it was not uncommon for iTaukei men to spend in excess of 40 hours a week consuming yaqona, a practice he referred to as equivalent to “a full-time job spread over seven days” (Aporosa, 2008:68).

What then encourages these lengthy yaqona consumption sessions? The effects, experienced as social casual contentment as summarised in Chapter 3 (p.39) certainly play some part, however it is much more than this.

**Reasoning Behind Yaqona Consumption Durations**

Yaqona’s link with identity has already been discussed, a union that encourages the consumption of Fiji’s “cultural keystone species” (also see p.70-73). Key to this is also the influence of Fiji’s customary value system of vakaturaga. This ethos is explained in length in the following chapter (p.86) and is strongly influenced by qaravi tavi (fulfilling obligations) and veiwasei kei na veikauwaitaki (sharing and caring). Fundamentally these create a great sense of obligation on hosts (Ravuvu, 1983:81,87,103; Aporosa, 2008:28,37,47,66-67,81,107; Ryle, 2010:116-8). Every yaqona session has a host, whether the owner of the house in which the consumers are seated, the person who initiated the consumption event, or the person who called the meeting if in a public setting. This sense of obligation also extends to those who are from the same vanua as the host. They take on the host’s obligation in caring for guests from other vanua. Essentially this sense of obligation both encourages people to attend yaqona sessions to support their kin and neighbors (especially in the rural areas) and also prevents one from simply getting up and leaving a yaqona session until guests, or those of a high rank, have departed (Aporosa, 2008:80-1). Williksen-Bakker (2002:75) appropriately summarises this position—

> Kava gatherings are time-consuming. One cannot just get up and leave when this ‘unifying drink’ is being consumed. In fact, it is considered rude to leave at all, unless the bowl, tanoa, is empty.

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\(^{43}\) In my experience, women typically organise themselves to be at meetings during key discussion periods. Such commentary tends to last from two to three hours. Yaqona is often consumed during meetings. Females who do drink will also partake and then depart once the key discussions have concluded. Additionally, during periods of festivity or when special guests are present in the village, women will either break away from catering duties for a couple of hours and join the men drinking yaqona as part of relaxation and to catch up with news, or will join later in the evening once hosting duties have been completed and the children are settled. These women often sit together behind the men, relaxing, talanoa (telling stories) and consuming yaqona within their gendered group for a couple of hours before departing.
Further, when at *yaqona* sessions consumers feel obligated to accept and consume whatever amount is given to them. A participant from my Master’s study stated (Aporosa, 2008:81), “There is *yaqona*, *tabua* [whales tooth]; things that are traditional. *Grog* is seen as sacred, so you feel an obligation to accept”. A second commented that *iTaukei* “culture says when we sit together, we must receive what [we] get. If you decline, that shows we do not respect the offer”.

Another factor that encourages high volumes of consumption is *bole* (literally “challenge”) or *grog fighting*; “a non-aggressive form of *yaqona* consumption warfare”, and a theme I wrote extensively on in my Master’s study (p.72; also see p.82-3,108-111). When certain kinship-based and *vanua-based* relationships (such as *tavale*, *tauvü* and *veitabani*) meet at *yaqona* sessions, whether it be under a tree in the village, in a private home, or a hall in urban New Zealand, the *vanua*, despite the fact that it may be thousands of kilometres away, becomes an ethereal battleground to defend, provoking *bole* that encourages *yaqona* consumption levels (Arno, 1993:13; Toren, 2005:281; Qereqeretabua, 2006:11; Tomlinson, 2006:13-14). As Tomlinson (2007:1066-7) stated, although—

Figure 5.7, a photograph taken by Tomlinson at Nagonedau, Kadavu, illustrates *bole* in progress. The practice is a combination of contradictions that both breach and are guided by the ethos of *vakaturaga*. For instance, *vakaturaga* prohibits one from unapologetically standing over another, imposing on personal space (especially in male-female situations) and making demands on another, which in the case of *bole* occurs when compelling a *grog fighting* opponent to *na gunuvi ni yaqona me itotogi* (drink *yaqona* as punishment). *Vakaturaga* also prohibits mocking or goading, particularly when done by a younger person to an elder, or a subordinate to a title holder. *Bole* playfully breaks such *tabus* (culturally informed prohibitions), done through *veiwali* or ‘*spoiling*’ (a colloquialism for joking or teasing) that results in comical verbal-sparring and eventually *gunuvi ni yaqona me itotogi* (the consumption of their ‘punishment’) to the defeated, a situation displayed in Figure 5.7. These incidents are surrounded by great hilarity, not simply because of the playful ‘crime and punishment’ aspect, but because *bole* also technically breaches *vakaturaga*, which in turn can initiate further incidents of *grog fighting*. More importantly though, *bole* simultaneously remains strictly influenced by *vakaturaga* with opponents taking great care in choosing the appropriate setting, language and time to *veiwali* and *spoil* others while navigating a delicate path to ensure they do not incite malice, cause hurt or over-step boundaries, which would in turn cause a genuine breach to the principles of the cultural ethos.
Put simply, identity, culture, vanua and vakaturaga not only compel people to attend yaqona sessions, but also oblige them to stay late and to consume large quantities while there. The ability to consume vast quantities of the indigenous substance equally manifests identity; I drink a lot, therefore I am.

Another contributing factor to high volumes of consumption is a lack of extra-curricula activity, especially for those living in the rural areas (Aporosa, 2008:77-8,106-7). As one participant commented in my Master’s study, “It’s our traditional drink and it brings people together” (p.85). Another added, “This [indicating the hall we were seated and the local site of yaqona consumption] is the only place to relax. In town you can go to the movies, but here there is only grog” (Aporosa, 2008:85). This is an important theme. In a later chapter I will discuss how this is essentially a misinformed notion of identity.

With all of this vigorous and lengthy consumption occurring, what then are the effects of drinking and how is yaqona ‘intoxication’ (or grog-doped as it is colloquially known in Fiji) experienced?

**GROG-DOPED AND HOW IT IS EXPERIENCED**

In Chapter 3 the physiological effects experienced from kava use were briefly discussed and compared with alcohol intoxication. *Kava* intoxication was essentially described as “a warm, pleasant and cheerful, but lazy feeling, making people sociable” without hilarity or interference with reasoning (Chanwai, 2000:957). I also presented commentary by Lebot, Merlin & Lindstrom (1997:3) explaining that the effects of *yaqona* are often described using “terms [such as] intoxication, drunkenness, inebriation”, however such terms are misleading as they tend to suggest effects as experienced following alcohol use or “other familiar drugs found in the Western world” (also see footnote 25). In my Masters study, *grog-doped* was presented using both ethnographic comment and published material and included perceived impacts to driving and cognition in the workplace (Aporosa, 2008:38-43). Although users described a “haze of inebriation” that caused impassivity, which in turn can interrupt “assigned work”, exact impacts to cognition are both unclear and confusing (Aporosa, 2008:99; 2011:233-4). This is because the majority of research to date (with the exception of Waqainabete, see p.102 this study) has utilised cognitive assessment measures following the ingestion of small pharmacologically recommended doses set to comply with safety constraints (Mills & Bone, 2005:484,488; Aporosa, 2008:43). As a reminder, these dose levels are between 200 and 300mgs of kavalactones (the active constituent in *yaqona*) per day (Mediherb, 1994b:2), an amount that is minuscule when compared with average ingestion quantities consumed in the traditional setting.

Average *yaqona* consumption rates in the traditional setting have been calculated at six “standard” 100 millilitre *bilo*’s per hour (Qereqeretabua, 2006:6,7,11; Aporosa, 2008:43-44). With each *bilo* containing approximately 247.0mgs of kavalactones (Duve & Prasad, 1984:11), this equates to an estimated ingestion rate of 1,482mgs of kavalactones per hour (Aporosa, 2008:43-4), or 1,182mgs more than the pharmacologically recommended daily dose. These consumption rates and kavalactone levels are important as they will inform discussion in Chapter 7 (p.110-113). By drawing on the work of Kilham (quoted in Pina, 2000:7) and Qereqeretabua (2006:6,7,11) who discuss *yaqona* quantities and signs of intoxication, together with the assistance of a statistician who applied gut-to-blood movement calculations specific to kavalactone transfer (Ng, 1997:1; Singh, 2004d:127), I hypothesised in my Master’s research that those who drink up to six “standard” *bilos* of average-strength *yaqona* within a period of one hour experience the first ‘real’ sensations of intoxication (later termed ‘the initial point of intoxication’) which has the potential to impair cognition (Aporosa, 2008:43-5,130-2; 2011:234-5). Although these findings remain untested by an independent source, personal experience, together with confirmation by fellow consumers, support this hypothesis.

An additional theme investigated in the earlier study was *lomaloma ca*, or *yaqona* hangover, a theme I will briefly overview, and one which has wide application in the later discussion chapters.
LOMALOMA CA AND THE DAY AFTER THE NIGHT BEFORE

Lomaloma ca is a subjective issue, with some arguing it does not occur45. For instance, Perez & Holmes (2005:51) state there is “limited data” on yaqona hangover and how it manifests. Doctor Vincent Lebot, a co-author of Kava: The Pacific Elixir, reports consuming the substance most days and denies this possibility46. He added during conversation that lomaloma ca could only occur if users ingested kava prepared from plant material with a disrupted chemotype, or chemical composition, a corruption that would come as a result of human interference during the propagating process (pers.comm., cited in Aporosa, 2008:49-50). Many iTaukei also argue yaqona does not cause lomaloma ca. The late Ratu Josateki Nawalowalo, former Chairman of the Fiji Kava Council, was one such high profile critic. He and many others have frequently stated that the morning following heavy yaqona consumption they “feel fresh”. However, this appears to be based on cultural ideals as opposed to ethnobotany. The cultural ethos of vakaturaga discourages complaining and views the endurance of hardship without lament as a sign of strength (Erkine, 1967:424,429; Aporosa, 2008:50). Further, due to yaqona’s medicinal, spiritual and reciprocal aspects, all of which add to its sacredness (Tomlinson, 2007:1068-9), attributing negative characteristics, whether that be bodily or productivity related, is deemed by many iTaukei to be both a sign of weakness and a criticism of an emblem considered to be beyond critique (Aporosa, 2008:50-1,81,86-7; 2010:30-1). This will be looked at again in Chapter 9 as part of changing attitudes toward this indigenous substance (p.153).

Interestingly though, when informants were in one-on-one discussion with me, assuring their anonymity, they typically presented a vastly different account (Aporosa, 2008:114). Although not “as severe as... a bad alcohol hangover” (Young, 1995:89), lomaloma ca was explained as “feelings of sleepiness, a lack of energy, lethargy – both physical and mental... [which] encouraged a retreat from work” (Aporosa, 2010:27; also see 2008:86-8; 2011:238-9). More importantly though were the ethnographic reports from teachers concerning lomaloma ca and perceived impacts to teaching and quality education delivery.

In addition to my hypothesis concerning yaqona consumption quantities and the initial point of intoxication, a second exploratory investigation into steady-state concentration and lomaloma ca was presented in the Master’s thesis. This is believed to be the first time steady-state concentration has been studied in connection with yaqona, and those findings will now be condensed and discussed.

LOMALOMA CA AND STEADY-STATE CONCENTRATION

The second hypothesis detailed in the earlier research (Aporosa, 2008:44-49; 2010:235-7) was informed by the work of Julian (2001:19-20). He describes the manner in which drugs accumulate in the body when new amounts are added before earlier doses are completely eliminated. Julian explains that once a drug peaks in the blood of a user, lesser amounts are required to maintain that peak. This condition is known as steady-state concentration and can be measured by applying specific calculations to the elimination half-life of a drug. Singh (2004d:127) states that a 200mg dose of kavalactones has “A distribution half-life of 3-5 hours”, meaning this dose takes between three and five hours to be distributed into the body’s muscles, tissues and neural pathways.

45 As discussed earlier (see Footnote 25), yaqona intoxication is often confused with alcohol intoxication. A similarity exists with lomaloma ca and alcohol hang-over – they are experienced quite differently. Yaqona hangover is essentially the process of yaqona intoxication slowly declining, a process that can sometimes take several days. Yaqona hangover is not experienced as a ‘crash’ in the manner of alcohol hangover, therefore it is rare to experience headache and nausea as you do following the consumption of large quantities of alcohol.

46 A 2008 ABC News (Australia) report described Dr. Vincent Lebot as “The world’s leading kava expert. A French scientist... [who] has spent 30 years studying and drinking kava” (2 min. 25 sec.).

47 In a similar manner to his explanation of yaqona intoxication (in Chapter 3), Troost (2006:67) also offers an insightful evaluation of lomaloma ca. “It was two days before I returned to Earth... I felt like I had been mugged, taken unawares, slugged from behind... It had been a slow descent, nothing like a [alcohol] hangover, just a lingering sense that I was in a place far, far away, in a world of my own.” For the uninitiated this could sound like the period of lomaloma ca is the gradual regaining of understanding and comprehension. This is not the case. Comprehension and faculty are never lost. You ‘descend slowly’ from a blissful, pleasant, contented, carefree and relaxed ‘mugging’ with the “far away” place being an aware form of apathy and acute lethargy as opposed to euphoric non-compos mentis state. I use the word ‘aware’ to mean that if you force yourself, you have the ability to articulate, make reasonable judgements, mentally process and move with agility. Put simply, during lomaloma ca, you often don’t give-a-stuff about much, a feeling that gradually subsides over the two days following heavy yaqona consumption. Troost’s insights, I would suggest, are fairly typical among those experiencing lomaloma ca.
Additionally, kavalactones have “an elimination half-life of 9 hours”, implying that it takes this length of time for the potency of the lactones in the bloodstream to drop by half. With this drop to half, it is often assumed that following a further nine hours, full elimination is reached. This is incorrect. Elimination involves “half-life[s]”, therefore full elimination is not achieved until 90 hours post-consumption (Aporosa, 2008:45-6). By adding Singh’s “elimination half-life” to Julian’s steady-state concentration calculations, I was able to hypothesise steady-state concentration following yaqona ingestion at traditional levels (Aporosa, 2008:45-9,131-2). This is believed to be the first time such an investigation has been conducted and is illustrated in Figure 5.8.

Figure 5.8 shows the consumption of yaqona for six hours (1800–0000 hours / 6pm to midnight) on consecutive days. The dotted line (Θ) tracks the action of yaqona in the gut. Although a consumer ingests 36 bilos during each six hour period, the dotted line only peaks at 19 bilos due to the processes of bodily elimination (kidneys, urine, etc.). The solid line (eos) traces the rise and fall of kavalactones in the blood proportional to consumption. Figure 5.8 illustrates that for a person who habitually consumes yaqona for six hours over consecutive days, they remain significantly and continuously above the line identified as the initial point of intoxication. Further, this significant level of intoxication will remain until the consumer ceases drinking for at least 24 hours (Aporosa, 2008:45-9).

Figure 5.8 suggests that even following a single six-hour period of consumption the consumer remains well above the initial point of intoxication throughout most of the following day. Troost (2006:67, see footnote 47) unknowingly describes steady-state concentration when he states, “It was two days before I returned to Earth” following kava consumption in Vanuatu. These findings have potential implications for productivity.

![Figure 5.8](image)

**Figure 5.8**
Steady-state concentration from yaqona consumption over a six-day period. (Source: Author and Dr. M. Upsdell: Aporosa, 2008:45-9,131-2).

In a similar manner to the initial point of yaqona intoxication and steady-state concentration, very little focused research has been done on the impacts of yaqona on productivity with the exception of the 2007 USP investigation, which is still being collated. This has not prevented comment in the media though, a topic I will briefly discuss.
CHAPTER FIVE: Yaqona and Education in Fiji

DOCTORAL THESIS

LOMALOMA CA AND PRODUCTIVITY

Cost to development from lost productivity as a result of hangover affect was discussed at length in Chapter 2 (p.10-11). Criticism concerning lomaloma ca has increased over the past decade. The Fijian media has often acted as the primary arena for comment – for instance, headlines such as “Grog makes Fijians lazy” (Nagalu, 2007:9) and “Yaqona: It is getting the nation doped?” (Baba, 1996:1-4). The latter included the bold statement that “yaqona was a major factor in loss of productivity, both during working hours and because of the its ‘hangover’ effects” (Figure 5.9). In reality, these are unfounded assertions. This is because no focused research has been completed on the specific link between productivity and this “cultural keystone species”.

![Image of clippings from Fijian newspapers](source: Fiji Times, Fiji Sun, Fiji Daily Post: various.)

Figure 5.9
Selection of clippings from Fijian newspapers

In November 2009 I met with Professor Mahendra Reddy, the Dean of the College of Business, Hospitality and Tourism Studies at Fiji National University. He is described by the Fiji Commerce Commission (2010:n/a) as an “expert commentator... on development and economic issues”. When asked his opinion on media claims that yaqona impacts productivity, he stated–

Yes, it is an issue. First, people are consuming yaqona late into the night. Secondly, absenteeism rates due to yaqona is high even though there is no documentation as such. They [indicating yaqona consumers] never give the reason, they say ‘I’ve got a stomach bug’, something, but because they were drinking last night, they didn’t have enough sleep. So all the data on absenteeism, nowhere on the form will you find it written that I didn’t come to work because of that [yaqona].

Yaqona, absenteeism and sickness is investigated as part of the second research question within Chapter 8 (p.139-143). When asked why this theme had not previously been researched, Professor Reddy commented, “When you look at the production function you look at direct inputs, and yaqona is not a direct input. So that is the main reasons economists have not looked at this.” Asked if he felt there was a general reluctance to tackle this issue head-on he stated, “It’s because it’s a personal thing, it’s a social behaviour, so you can’t do anything. There can’t be any regulation as such. I would like to do it [research this theme] but there are other pressing issues.” Finally, Professor Reddy was asked how much impact he believed yaqona was having on productivity.
“It indirectly impacts on productivity coz they drink until 2 or 3am. So I think it’s having a significant effect”. Although Reddy asserted that there is no reluctance to research this theme, his opinion is not universal. In the introductory chapter to this study I cited another Fiji-based senior academic (Professor) who commented that previous attempts to research this theme had been met with opposition (p.4). He stated—

I personally think that you are very brave to take on such a study. Anything that might show grog in a negative light is contentious. In a sense, some will look at you almost like you are being a traitor, you are letting the country down, and that there is almost something evil in looking for harm.... I spoke to... [a leading yaqona advocate, since deceased], and he is the archetypical example of someone who just didn’t want to know. He just wouldn’t listen, and you could say whatever you like, and show that there is good evidence that it is causing harm, but he would go off on tangents and show you someone else’s opinion that it wasn’t. He was almost like an evangelist, a closed mind to the thought that grog could be harmful, and continually wanting to look for evidence that there wasn’t any harm, and any scrap of evidence that there wasn’t harm he would blow up, and evidence that there was, he would ignore (pers. comm., 2009, November, 11).

It must be acknowledged that I did not at any time get the impression Professor Reddy was being evasive. However, I did on occasions encounter the types of denials described above. When this occurred, and more-so when the informant was iTaukei, I most often got the impression this was due to yaqona’s sacredness and the underlying belief that the emblem was considered to be beyond criticism (as discussed above), as opposed to a malicious attempt to be obstructive. This again demonstrates the sensitive nature of this theme. Nevertheless, a large number of participants in the Master’s research spoke honestly to me about their experiences, with commonality in comments such as “If I drink grog up to 10, 11, 1, myself, in the morning, it is a problem. It is hard to get up from bed and I feel lazy, and feel sleepy during the day” (Aporosa, 2008:86-8).

Although the Fijian media and an economist report lomaloma ca as impacting on productivity, no specific investigation (with the exception of the 2007 USP survey which is still being collated) has been undertaken to examine these assertions. What has been done though is an explorative study on the consumption habits of teachers at a rural school, which included investigation into impacts to education delivery, a study that comprised my 2008 Master’s research. This provides foundational information which will assist the current study as it attempts to provide a country-wide perspective.

TEACHER YAQONA CONSUMPTION
In March 2006, all 21 teachers at a rurally isolated school in Kadavu were surveyed and interviewed regarding their yaqona consumption habits as part of my Master’s study (Aporosa, 2008:72). The survey gathered data on teacher consumption habits over a seven day period (p.122). From the original 21 surveys distributed, 12 indicated they had consumed yaqona during the designated period (p.75). This group was further analysed to identify those who had ingested the indigenous substance on nights prior to teaching, whittling the participants down to six males. This meant that the six participants eliminated from the final analysis had only consumed yaqona on the Friday and/or Saturday night during the seven day period.

Figure 5.10 shows the number of hours the six teachers (coded P05,P06,P08-P12) had spent consuming yaqona on nights prior to teaching during the survey period. Consumption durations and frequency varied between participants. For instance participant P06 drank on all nights for a total of 19.4 hours compared with P08 who consumed for only two nights totalling 5.25 hours. Most important though is the average consumption time of three hours on nights prior to teaching (Aporosa, 2010:24). Although this may sound somewhat less when compared with findings of the 2007 USP survey (which found the average drinking time to be five hours) or Tomlinson’s reference to “a full-time job”, outliers such as participants P06 and P11, who drank for six-and-a-half hours on the Sunday night need to be considered. The average consumption duration of three hours suggests consumers ingested 18 bilos over this time equating to 4,446mg of kavalactones – 14 times the pharmacological recommendation.
When these teachers were questioned about how they felt in the morning as they entered the classroom, several commented that the struggle began from the moment they woke, finding it extremely difficult to get out of bed. This was followed by ongoing tiredness, restlessness and difficulty with concentration, whereas without *yaqona* the previous night, “I get up easy” (Aporosa, 2008:86). Another stated that when *lomaloma ca*, “to teach is hard. It’s even harder for me to speak. I’m lazy to speak. Sometimes I forget what I have taught the day before, or I forget what to teach”. In another case, a teacher cited an incident where a peer “was preparing students for an exam question, and they taught them the wrong answer, and then all of them got it wrong [in the exam], and X [edited for confidentiality] had to re-teach and give false marks” (Aporosa, 2008:86).

![Figure 5.10](image)  
*Yaqona consumption on nights prior to teaching.*  
*(Source: Aporosa, 2008:77)*

When asked which factors they believed influenced their *yaqona* consumption, the teacher participants cited similar purposes to those mentioned earlier, namely *vakaturaga*, *veikauwaitaki*, obligation, host responsibility, limited extra-curricula activity and *bole* (Aporosa, 2008:80-4,106-7,110). Further, some teachers admitted to utilising covert strategies as part of moderating consumption to aid longevity at sessions (Aporosa, 2006:7; 2008:84-5). This usually comprises taking on a service role such as mixing and serving the beverage or *tuki na kosa* (the re-crushing or the pounding of the mixed plant material allowing for re-mixing). These duties are performed ‘from’ the *tanoa* allowing consumers to pour quantities back or conspire with others they are working with so as to miss a ‘round’. The *tuki* role is often done away at a distance (due to the thumping noise) also making it easier to pass a round or insinuate another has already served you. Further, some consumers will deliberately schedule toilet breaks just as a round of *yaqona* is being served, providing an excuse to miss consumption. However, if caught, the strategist can expect to be punished for their offence, most often in the form of a double serving of *yaqona*. One participant stated, “We have to have the strategies so we can

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**Table 5.1**  

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<tr>
<th>Days of Week</th>
<th>P05</th>
<th>P06</th>
<th>P08</th>
<th>P09</th>
<th>P11</th>
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<tr>
<td>Sunday</td>
<td>7.0</td>
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<td>Wednesday</td>
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</tr>
</tbody>
</table>
meet obligation. Everyone does it. Even the next day sometimes people tell the strategies [they employed]” (Aporosa, 2008:84-5).

Participants added that they had heard visiting Senior Education Officer’s (SEO) express their concerns regarding excessive yaqona consumption by teachers. However, some felt this involved a ‘double standard’ as lomaloma ca and impacts on education delivery were often addressed through what was described as a “joke” – veiled language as a means to “address... the situation” (p.88), although no definitives, examples, guidance or boundaries were offered. One participant stated the reason was “because the regulation makers [indicating the SEOs] are also swipers [heavy yaqona consumers] and don’t want to get caught out” (p.88).

Further, several Heads of Departments (HoD) stated that the affects of lomaloma ca on teachers and their efficiency was evident within the Performance Management System (PMS), an appraisal measurement indicator administered annually to staff (MoE, 2004). HoDs reported heavy yaqona users tended to achieve lower scores in “PMS 5 (Punctuality and Attendance)” when compared with light or non-drinkers. A HoD commented, “Yes, indeed. You can see it in competencies that show, like, due dates. You can see the procrastination. They drink grog and never get it done” (Aporosa, 2008:88). However, HoDs appeared to be reluctant to address this perceived deficiency with their staff, citing culture, vakaturaga and the sacredness of yaqona as key reasons. Another HoD added, “because even myself I do” (Aporosa, 2008:89). An additional area of concern was the possibility that complaints regarding impacts on education delivery could lead to the banning of the indigenous substance within the school environment (Aporosa, 2008:89). As a way of mitigating impacts, the principal at one rural school had limited consumption within the school compound to Friday and Saturday nights unless visitors were present (Aporosa, 2008:94-6). Further, Saturday night drinking was to conclude at midnight and consumption was confined to the school hall and prohibited within staff accommodation. The principal stated that following the institution of the policy he had noted a marked improvement in the quality of education delivery by teachers, together with an increase in examination pass results (Aporosa, 2008:94).

However, discussion with both the principal and staff 12 months following the completion of the Master’s research revealed a difficulty in maintaining this protocol for two reasons. First, volunteer labourers, usually the parents of the students or alumni who were constructing new facilities as part of the State/Community partnership scheme (see p.54 this study), frequently stayed at the school. To show appreciation, the school board and teachers would ‘host’ the volunteers nightly, most often with yaqona. This in turn led to hosting obligations and increased volumes of consumption for teachers, even though they were required to teach the following day. This is a theme discussed at length in the section on Facilitating Parental Participation in the School (Chapter 9). Second, teachers, especially those in rural areas, tended to form close bonds with neighbouring villages regardless of whether they had relational or vanua connections (Aporosa, 2008:67; Nabobo-Baba et al., 2012:xix). This obligated teachers to attend functions and accept invitations to these villages. Therefore, when yaqona consumption days were reduced at the research site under the new policy, teachers were often invited to the local villages. As one participant suggested, “it’s hard to say no [suggesting this was rude]. See, no escape” (IQ005).

My Master’s thesis concluded with an acknowledgement by many of the research participants that yaqona over-consumption had the potential to negatively impact on education delivery. However such commentary was often limited to veiled expressions, unless discussed with me in private. This, as explained, results from yaqona’s link with the vanua, identity and vakaturaga, or the indigenous substance’s position as an emblem considered to be beyond critique (Aporosa, 2008:113-15, 2010:36-8). These factors not only reinforce the sensitivity surrounding this culturally embedded “keystone species” but also highlight the complexities involved when uniting yaqona with a contemporary system of development. To a lesser degree, but nevertheless a concern, was the possibility that such impacts could result in the banning of the indigenous substance from the school environment. As has been discussed, it is believed this would cause major cultural loss and upheaval. These findings acted as a springboard from that previous study into the present. I will now draw together several threads from the earlier study together with discussion from the preceding literature review chapters.
A thread that wound throughout Chapters 2, 3 and 4 explained that over the past 200 years Eurocentric-inspired development set itself up as the authority on what supposedly embodied ‘developed’. This prescribed and imposed a ‘one-size-fits-all’ standard for which all countries and people groups were expected to work toward and aspire to (Peet & Hartwick, 2009:121,140; Nederveen Pieterse, 2010:16). In the process an ‘us and them’ divide was created. At one end of the spectrum were deemed to be the ‘productive’ contributing members who embrace specialisation and mechanisation together with the “right” Eurocentric values of modernity, individualism, capitalism and “economic initiative” (Rostow, 1956:27; also see Smith 1852:viii,327; Lie,1971:14-5; Escobar, 1995:43; Nederveen Pieterse, 2010:16). At the other are the unproductive “lower societies” – the traditional, communal, insular and “primitive” (Durkheim & Pickering, 1975:107) believed to be guided by “crude myths” (Rostow, 1956:27), superstitious gullibility and archaic practices which include the use of indigenous substances (Lange, 1999:242,249-250,281-2). Although there has been some shift in attitude over the past 30 years, including a greater emphasis on participatory development (in the case of Alternative Development), an acceptance of culture and tradition in the form of “multiculturalism” and the protection of indigenous rights (under a neo-liberal approach) (Arneil & MacDonald, 2010:115), an underlying hesitation regarding aspects of culture as an impediment to development remains (Nederveen Pieterse, 2010:16). Traditional communal land ownership, aspects of indigenous substance use and cultural mindsets that struggle to adopt neo-liberal “pragmatic, technocratic, and conservative vision” are such examples (Domenech & Mora-Ninci, 2009:164; also see Coomber & South, 2004:18; Arneil & MacDonald, 2010:114-15).

This suggests then that the ‘us and them’ divide remains. In his recently re-published 1995 text, Encountering Development, Escobar (2012:xxvii) defines this ongoing “separation… [as] the colonial divide between the West/modern and the Rest/nonmodern”. He added this also applies to the neo-liberal–

"globalization discourses… [which] is seen as naturally and fully occupied by forms of socionatural life that are in fact an extension of Western-styled modernity… these discourses always amount to a deepening and a universalization of capitalist modernity… [with] this view of globalization as universal, fully economized, delocalized, multicultural (yet with modern cultures as the preeminent model)… [are] increasingly made possible by the immense power of [globalization itself] (p.xxiv).

In the Introduction chapter I stated I did not intend to be reductionist, over-simplifying or minimising the facets of culture and development in the ‘contemporary’ development era (including neo-liberalism) by recreating ‘us and them’ binaries of “modern” and “primitive” (p.3; Durkheim & Pickering, 1975:107-8), which evolved during the earlier period of modernity/modernisation (p.8). However, this appears to have “naturally… [occurred as] an extension of Western-styled modernity” under the globalisation agenda – “a deepening… of capitalist modernity”, suggesting an ongoing marginalisation of cultural practices, including indigenous substance use.

Changes to indigenous substance use due to colonially inspired desires for modernity/modernisation was a key theme in Chapter 3. There I explained that alcohol, at the advent of the industrial revolution, saw the greatest use change (p.26). Within a short time-frame, alcohol - the ‘original indigenous substance’ (Patrick, 1952:12-3) - was situationally banned from the worksite in order to limit impacts to productivity (p.26-27), a key driver to modernisation and economic growth (p.9). As part of increasing productive output, analysts have examined indigenous substances as both aids and impediments, with the latter theme highlighting workplace injury, sickness, absenteeism and presenteeism (p.10-11). This has prompted situational bans and prohibitions on a wide variety of indigenous substances, an action that also led to cultural and traditional knowledge loss (see p.8). This exemplifies the wider aspects of the traditional/contemporary tension, the term used in this study to illustrate the conflicting yet interconnected relationship that has resulted when traditional practices such as indigenous substance use has met with modernisation-inspired development inputs. Therefore with neo-liberal policy and globalisation becoming “an extension of Western-styled modernity” (Escobar, 2012:xxxi), and one that “reinforces a re-colonisation in the Pacific… replac[ing] indigenous structures with its own… institutional, state, corporate and intellectual pressure” (Barh, 2001:252; also see p.30; Brohman, 1995:127;)

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I argued above, threats to traditional practices such as the use of indigenous substances from Western-styled development appears to have altered little. Coomber & South (2004:18) add that overall Western attitudes continue to view indigenous substance use as “‘backwardness’ or ‘underdeveloped’ with their use not fitting “into a wider notion of human progress and/or the western notion of drug use” which they argue is “both myopic and unreasonably ethnocentric” (p.47, this study).

The previous chapter narrowed the traditional/contemporary tension to the use of the indigenous substance yaqona and the development input of education in Fiji. This Pacific Island state has embraced Western-styled education as a key driver to achieving national development and economic growth (p.58). Conversely they have as their “cultural keystone species” yaqona – an indigenous substance emblematic of cultural identity and expression and deemed to be an ingestible representation of the vanua, an icon imbued with mana and capable of transferring mana. Yaqona’s role and importance also applies to the school campus, with commentators adding that culture is vital to academic achievement (p.59,61).

However, the MoE and a number of yaqona consumers have expressed their concern that the heavy ingestion of this indigenous substance has the ability to inhibit quality education delivery. This has led to a conflict for the MoE, who recognise the importance of the “cultural keystone species”, but have also embraced education as part of their development agenda. This has prompted the MoE to request more research on the association between culture and education (Williams, 2000:188). I would suggest this complexity, one that both attempts to recognise and legitimise yaqona’s traditional use and sacredness, while balancing it against education that requires alert, productive teachers to impart quality learning systems to aid the national development agenda, will remain until this traditional/contemporary tension is investigated from a paradigm other than the contemporary “economized, delocalized, multicultural” neo-liberal development approach (Escobar, 2012:xxxiii). Post-development, as explained in Chapter 2, offers such an alternative paradigm (p.19).

Post-development is essentially a grassroots-informed development approach that encourages developing nations to untangle themselves from the prescriptive expectations of development hegemony through a legitimate and academically supported ideology. Post-development inspires these nations to reconsider their position from a vista free of Eurocentric expectations that are primarily concerned with economic growth which cares little for the local and their cultural icons, life-ways and the embedded practices that give meaning and manifest cultural identity. Concerning education, Rahmema (1997:158), as discussed in Chapter 2, reminds us of the motives behind these Eurocentric expectations. He argues that the promotion of education within developing nations by the hegemonic West is a guise specifically intended to discredit local systems and traditional knowledge in order to promote capitalist processes for the benefit of the First World at the exclusion of the developing local economy.

Post-development makes salient the motives of the hegemonic development agenda and encourages a process where the local takes control via indigenous systems of communication and understanding while embracing external processes at their discretion and under their terms. Additionally, post-development offers the possibility of ‘real’ and realistic development by starting with “what they know... [which] is their own culture and values” (Anacleti, 2002:172) by “tap[ing]... indigenous traditions... as a resource... to solve contemporary problem caused by modernization and development” (Schech & Haggis, 2000:124).

The following chapter details the methodology utilised to answer the three research questions (presented in Chapter 1). Additionally, this also utilises a modified quantitative measure which I suggest will push post-development in a new direction. This will provide the MoE, and ultimately the Government of Fiji, with detailed information to assist with an informed decision on a way forward, a direction that, if pursued solely from the predominant development dictum, could cost them and the vanua dearly through disempowerment, traditional knowledge loss, cultural disruption and identity forfeiture, aspects argued to be necessities to sustainable development (Verhelst & Tyndale, 2002:11; Radcliffe: 2006:18).
CHAPTER 6
METHODOLOGY

INTRODUCTION
The previous chapter concluded by discussing a traditional/contemporary tension that appears to have resulted from the use of the “cultural keystone species” (Garibaldi & Turner, 2004:5) *yaqona* within the domain of education, a key driver embraced by the Fijian Government to aid contemporary national development and economic growth. Development and culture were key themes that aided in the identification of this proposed tension (see Chapter 2). Underpinning this was a discussion of post-development, an evolving ideology founded upon culture, traditional knowledge and self-determination aimed at eliminating external hegemony (p.16). As McKinnon (2008:281) notes though, much of the post-development literature tends to focus “on a critique of development without offering any suggestions for how to move forward”. In Chapter 2 (p.19) I explain how McKinnon sought to counter this criticism by adopting “a genealogical approach to her fieldwork” (p.283) – a post-development influenced methodology she claims contributes to overcoming “the lack of post-development alternatives” (p.281). She did not however define exactly what constitutes a post-development methodology. Nevertheless, when McKinnon is considered alongside others such as Gibson-Graham (2005:12; also see p.39), it appears that any such methodological process must consider the key post-development challenges of eliminating external hegemony by embracing local culture, traditional knowledge and self-determination.

With these attributes as a guide, it appears that other researchers also utilise methodologies that align with post-development. For instance, Laverack & Brown (2003:335,341) in their article on cross-cultural research in Fiji, argue that local “process” such as flexibility and the embracing of cultural practices are critical to the success of research in that country. They add that “activities that have little or no relevance to the researcher, such as the seating arrangements or ceremonial kava drinking, might have profound implications for the subjects of the research” (p.337). Therefore if research is to be locally driven, such practices must become important to the investigator. Additionally, by acknowledging the critical position of local participants and their cultural practices, Laverack & Brown (2003) affirm notions of self-determination while simultaneously deferring to local “process” and the embracing of traditional knowledge systems. In other words they embrace principles that align with post-development.

In this chapter I discuss at length the work of Associate Professor Unaisi Nabobo-Baba and her *Vanua* Research framework, an indigenous approach that also conforms with the ideals of post-development. *Vanua* Research acted as the key influence during my field research phase carried out in May-June and November-December 2009 aimed at gathering data to answer the three research questions mentioned above. An explanation of *Vanua* Research will be followed by details of the research ethics, procedures and measures utilised.

VANUA RESEARCH AND THE ETHOS OF VAKATURAGA
In his book *The Fijian Ethos*, the late Professor Aseșela Ravuvu (1931-2008) makes a comment that those who are unfamiliar with Fiji could easily overlook or potentially dismiss. He (1987:18) states, “*Vakaturaga is the most important concept depicting ideal behaviour among indigenous Fijians*”. *Vakaturaga* remains the key influence to iTaukei behaviour today and comprises a set of ‘Chiefly’ values and expectations irrespective of one’s status, such as *veidokai* (respect), *vakarokoroko* (humility), *kila na iyatu* (knowing one’s place in the community), *qaravi tavi* (fulfilling obligations), *veiwasei kei na veikauwaitaki* (sharing and caring), *veivosoti* (forgiveness), *veivukei* (helpfulness) and *yalo malua* (a quiet demeanor) (Ravuvu, 1983:103-4; 1987:18-19,319-320; Tuwere, 2002:110). Nabobo-Baba (2006:25-36) draws on this “ideal” (or in her case as a woman, “vakamarama: to behave like a lady at all times”, or womanly chiefly attitude) in explaining her *Vanua* Research concept, a methodological guide for researching iTaukei. *Vanua* Research, she explains, is “an ethical approach” that takes into “account indigenous Fijian [iTaukei] values, protocols of relationship, knowledge and ways of knowing” (p.24). Therefore, one cannot participate in, or observe iTaukei “values [and] protocols” without actively embracing *vakaturaga/vakamarama*. 
Nabobo-Baba (2007) explains that Vanua Research aids in de-colonising research by encouraging the use of local systems, self-determination and development – a reaction to the colonially driven process that dominated in the Pacific until the 1970s (p.1). She adds that Vanua Research is “counter hegemonic... [it] gives power and recognition to things Fijian as research and knowledge accumulation in its broadest sense is deeply connected to power” (p.1). Both Vanua Research and vakaturaga encourage the advancement of local strategies through the application and manifestation of practices and models of culture and nature specific to the iTaukei context, processes that have developed over centuries from within.

iSevusevu – the ritualised form of yaqona presentation discussed in the previous chapter – is also critical to Vanua Research (Nabobo-Baba, 2007:3). Vanua chiefs, village principals, elders and officials are informed of the reason for isevusevu during its presentation together with the seeking of permission. Permission is never assumed, and if it is granted, it will often be sought again on each subsequent visit (Nabobo-Baba, 2007:3). Therefore, decision and power originates and remains within the control of local authorities as opposed to being assumed or demanded from the ‘outside’, further countering hegemonic process. isevusevu’s reciprocal practice hints at post-development “gift exchange”, a concept described by Curry (2003:419) as “a culturally place-specific form of economy”. Curry argues that post-development acknowledges and legitimises “nonmarket economic” (p.420) systems which can be accomplished through “gift or indigenous exchange” (p.418). These, he asserted, are just as valuable as capitalist exchange and lead to local community level development (p.418). Further, he stated, “The capacity of people to engage in gift exchange is crucial to social relationships and identity and is an important determinant of the quality of life”. Cultural gift exchange within isevusevu together with the elimination of hegemony and the legitimisation of self-determination within the wider Vanua Research framework – a methodology that acted as the principal guide to my field research – aligns well with a post-development approach.

VANUA RESEARCH AND THE FIJIAN COMMUNITY

Although Nabobo-Baba developed the Vanua Research framework for the investigation of iTaukei issues, I would argue this nevertheless has high transference to the Fijian community who also informed this study. Ravuuvu (1987) and Nabobo-Baba et al. (2012) give context to my reasoning. Firstly, Nabobo-Baba et al. states that a “person who is vakaturaga is a person steeped in respect and behaves towards others as if others were of more importance than themselves” (p.44). Ravuuvu adds, “People who are vakaturaga in behavior know their place in the community and act appropriately” (p.18). Vakaturaga, as an ethos and ideology, is principally about appropriate behaviour based on respect and does not specify what constitutes “community”. Therefore I would argue that those who pursue vakaturaga do so in all communities, whether a Fijian settlement, a Hindi school, a kaivalagi’s (visitor to Fiji) hotel room in Suva, or a garage in Hamilton, New Zealand – all places in which I have conducted research and embraced Vanua Research and vakaturaga. Vanua Research therefore has multi-ethnic application in a similar manner to the indigenous Tongan methodological framework, Kakala, which could equally be utilised within the iTaukei setting. As Taufa (2010:112) explains, the “Kakala model... [is] based on... values and principles such as reciprocity, respect, collectivism and context-specific skills and knowledge”. Kakala, similar to Vanua Research, also aligns with a post-development approach.

VANUA RESEARCH: THE PRACTICALITIES

In her book, Nabobo-Baba (2006) explains the practicalities of her Vanua Research framework (also see Nabobo-Baba, et al., 2012:108-10). Essential to this approach is that information gained during interviews and surveys must be checked for accuracy and the identity of sources protected where requested or in situations where relational disruption could result (p.25). Additionally, reporting back is essential and further deemed to be a reciprocal response (p.26). These criteria also manifest the vakaturaga ideals of community, compliance to obligation, and the respect of others and authority (Ravuuvu, 1987:18). An example of compliance with this reciprocal obligation occurred following my Master’s research which also utilised the Vanua Research framework. Following the completion of my study, the research findings were condensed and translated (with the assistance of a friend) into a vosa vakabau/English parallel. This was subsequently published in a Fiji-based academic journal (Aporosa, 2010), together with extracts in Nai Lalakai, the local iTaukei newspaper.

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Most importantly though, the findings were presented in *vosa vakabau* to participants at each of the research sites, complying with their processes and modes of communication and holding these up as paramount as opposed to those of the outsider.

*Vanua* Research also involves the embracing of time flexibility, the wearing of appropriate clothing such as *sulu vakataga* for men (wrap-around formal skirt with pockets), and the presentation of *isevusevu* (Nabobo-Baba, 2006:26-7,31-2). These elements are also essential to outworking the ethos of *vakaturaga* (Ravuvu, 1987:18-19). Nabobo-Baba (2006:26) explains that *Vanua* Research compliance requires more than the ‘giving’ of *yaqona* as part of *isevusevu*, it must also carry with it the appropriate acknowledgements and information. *Talatala* (Reverend) Dr. I. Tuwere (pers.comm., 12 June, 09), a well-respected commentator on *itovo* (*iTaukei* culture and practices), asserted that the language and words used during *isevusevu* can either add ‘weight’ to, or equally dilute the ‘value’ of its presentation. He added that correct and appropriate language not only creates reciprocity and outworks *vakaturaga*, they are essential to manifesting *mana* (see Footnote 21).

*Vanua* Research and *vakaturaga* also require that appropriate forms of communicative exchange are observed. These include discussion and language fitting to the environment, the use or avoidance of gestures, appropriate deportment, and the use of *talanoa* (Nabobo-Baba, 2006:26-29). *Talanoa* is the meeting together of two or more people where information is shared (Havea, 2010), a theme I will discuss at length in Chapter 9 (p.164-165). As Mishra (2007:45) explains, *talanoa* frequently occurs around the *tanoa*, a practice common to both *iTaukei* and *Fijians*. While academic ethical guidelines occasionally spell out the terms for participant interviews (for example one-on-one meetings to be conducted in appropriate settings to ensure anonymity if information is of a sensitive nature), *talanoa* allows for some information of this nature to be shared within community or family settings. This can be somewhat confusing to a Western researcher who often originates from an individualistic culture where sensitive information is held close. In both the *iTaukei* and some *Fijian* environments, sensitive information tends to be family or community ‘owned’, and therefore is often discussed in the *talanoa* setting. An understanding of *vakaturaga*, *itovo*, relational connections and interaction systems is necessary to making informed decisions regarding the best environment to conduct interviews, especially those of a sensitive nature.

Invitation was an important aspect of this study; one that had a level of uniqueness due to my position as both an ‘insider’ and ‘outsider’. Although I will discuss a number of other factors surrounding my ‘insider/outsider’ role later in this chapter, research ‘invitation’ together with an number of ethical aspects will now be discussed.

**RESEARCH INVITATION AND ETHICS**

In late 2007 I met with Mr. Filipe Jitoko, then the Permanent Secretary for Education in Fiji, who had been an advisor to my Masters research. Following *isevusevu*, I presented to him the findings of my rurally focused study. Jitoko questioned a number of the outcomes, stating that a fuller understanding would require a nationwide investigation. Although this was something I had considered, ideals within the ethos of *vakaturaga* prevented me from simply asking the obvious, “Can I undertake that research?” Instead, the ethos requires a respectful conversational ‘dance’ on the part of subordinates (Nabobo-Baba, 2006:28; Nabobo-Baba, *et al*., 2012:107). Ravuvu (1987:18-9) explains this: “A person who is *vakaturaga* does not openly question... his senior... He should not impose any idea or question”. Our conversation resulted in Jitoko inviting me to submit a research proposal to undertake a national level investigation.

Several months later Jitiko and the Education Research Officer, Mr. Joji Qaranivalu, considered the proposal, approved it, and granted “Research Authority” (see Appendix F) which included ethical conditions. Foremost I was asked to “tread with caution” due to the importance of *yaqona* as a cultural icon. This was a subject that Jitoko and I had discussed at length during our earlier meeting. He had stated that there was a reluctance by some within the Fijian educational arena to discuss this topic due to its sensitive nature (also see p.4). However, my position as both an ‘insider’ and ‘outsider’, he suggested, offered a unique advantage. Additionally, approval was granted on the condition that I “liase [sic] directly with target schools and personnel”. This meant that although the MoE had given authority to conduct the research, permission was still to be sought from schools...
and individuals. This topic, as part of informed consent, will be discussed later in this chapter.

ETHICS APPROVAL: ACADEMIC VERSUS VANUA

Just as the methodological philosophy which informed this study required invitation to conduct the investigation, it also necessitated that ethical consideration be locally driven. Nabobo-Baba, et al. (2012) explain this in the Fijian context—

Consent forms are good as they meet university and institutional standards but researchers also need to find out what consent means locally among Pacific groups. Working among her people in 2003, Nabobo-Baba found that there was a general refusal to fill or sign forms. As the official ceremonial yaqona was accepted by the village and district or tribal chiefs, work would have it that it was a piece of work the community ‘was bound’ to be engaged in, in whatever way they could. Consent constitutes more than just form to fill (p.88)… As a scholar she knew she had to follow rigorously University ethics and guidelines of research but soon found out that it was the Vanua (tribe) and its protocols and ethics of knowledge that dictated research processes on the ground (p.89).

In effect this relegated the academic ethical protocols to a secondary position. Ethics approval was granted under the “Low Risk” categorisation by Massey University’s Human Ethics Committee (MUHEC) (Appendix G), however in actuality this comprised an academic formality. I would argue though that MUHEC accepts that they may be required to take a secondary position in certain circumstances. Instead of requiring their researchers to abide by “ethical rules”, MUHEC (2010:4) seeks that they guide their inquiries and data collection by eight “ethical principals” which they preface with the following summary statement. Researchers must “be aware of... cultural sensitivities, and gender and socio-economic differences. In particular... [investigators] must recognise the power relationships involved in their work... and take steps necessary to respect the social and cultural sensitivity of all participants” (p.4). Therefore I interpreted MUHEC’s guidance as endorsing my chosen direction. Further, when a comparison is made between MUHEC’s “major ethical principles” and Vanua Research’s “ethical approach” together with the fundamentals of vakaturaga, the latter is vastly more ‘strict’ and holds researchers to a higher ethical standard than the former.

Pacific academics and educationalists Anae, Coxon, Mara, et al. (2001) endorse a shift in ethical approach toward more control by those in the country or community where research is to be conducted. Although stipulating that “ethics approval from formal ethics committees” is necessary, they add that “in order to ensure that ethics committees or codes of ethics are culturally sensitive, such committees or codes need to have specific Pacific or other cultural input both by the appointment of a Pacific committee member and/ or the appropriate cultural framing of ethical guidelines” (p.40). In my case I utilised Vanua Research as “the appropriate cultural framing”, whereas “specific Pacific... cultural input” came from a variety of sources such as Associate Professor Unaisi Nabobo-Baba (also my third academic supervisor and the author of the Vanua Research framework) and friend, academic and cultural expert Sekove Degei (Fijian Studies, University of the South Pacific). Others included family members, friends and advisors, many who are listed in the acknowledgement section at the beginning of this thesis together with numerous anonymous sources.

INFORMED CONSENT

During field research all informants were shown a Participant Information Sheet (Appendix H) and Participant Consent Form (Appendix I). Both of these were translated into vosa vakabau and Fiji Bät, and individual consent was sought. Although all of the research participants possessed a high degree of fluency in English, it was felt that the full disclosure of the research’s intentions, together with the rights of the participant, would best be achieved by using the participant’s first language. This also complied with the requirements of Vanua Research as decision making and power remained within the control of the local and thus countered external hegemony.
CONFIDENTIALITY: AN OUTGROWTH OF TRUST

The final ethical theme is confidentiality. Nabobo-Baba (2006:25) prescribes that “the vanua researcher ensures that no harm is done to the vanua”. Moreover, Anae et al. (2001:40) stated that “confidentiality occurs more by the establishment of confidence and trust between the interviewer and interviewee, than by the mere signing of written ethics consent forms.” The sensitive nature of this research has been mentioned several times so far and will become even more palpable in the following chapters where teacher participants make comments that could be deemed in some arenas to be unprofessional and potentially lead to disciplinary action. What is important here is that while issues of confidentiality were discussed and guaranteed on numerous occasions including iseveve and during the informed consent process, sensitive research is not possible without high levels of trust.

To reassert Anae et al. (2001:40-1), it is the “trust between the interviewer and interviewee” that enables confidentiality and not guarantees of confidentially that enables trust. In my case, this trust resulted from relational connections and many years of demonstrated service and taking the ‘low’ position of “respect and deference” (Ravuvu, 1987:18) in Fiji and the iTaukei community in NZ. In other words, I had simply been an honest, authentic contributing participant in the life of the community in which I was living and/or working at the time. Having spent almost 12 years working at and visiting schools in Fiji, I have built up a healthy group of friends and colleagues who are spread across a variety of teaching environments in that country. These contacts were extremely important in preparing the way for me when I visited their schools. They opened ‘trust doors’ that enabled me to simply step into the lives of people I didn’t know. Bourgois (1995:13), in his text that presents poverty and the crack-cocaine economy in East Harlem, discusses the importance of relational connectedness to research accuracy: “Only by establishing long-term relationships based on trust can one begin to ask provocative personal questions, and expect thoughtful, serious answers.” Therefore, in the case of culturally based research of a sensitive nature, honesty and openness that results in accurate high-quality research data is not a product of formal ethics procedures, information sheets or consent forms, but rather relationships of trust based on culturally appropriate behaviors. In addition to this, an importance consideration is how that sensitive data is subsequently handled.

THE PROTECTION OF IDENTITIES AND INFORMATION

To protect the identity of my research participants and informants, I utilised the same processes as I did in my Masters study. Firstly, written documents, data and recorded audio files that resulted from the field research were allocated a numerical identification with a corresponding participant ‘key’ kept within an encoded partition on my laptop. This meant that, should the documents have been misplaced, informant anonymity would have been maintained. Where paraphrased remarks and quotes appear within this thesis, they have been referenced using an alternative sequential coding system (IQ001-IQ227) that requires a two step process, namely the use of the ‘key’, to identify a participant. This is believed to be vastly superior to a situation where each participant is allocated their own code which is then assigned to all of their comments. Such a system could potentially open up the possibility of an investigator collating all of a particular participant’s comments and quotes and then analysing these in order to identify that person.

Although many interviews and research themes were engaged during talanoa, highly sensitive issues were discussed in one-on-one settings. Great care was taken when seeking the clarification of statements made by other informants. This was done by re-formulating questions and making no reference to third parties, a technique I became proficient in while interviewing offenders of serious crimes as a police constable. Therefore, participants were strictly asked questions during interviews and opinions were not offered. A breakdown of the research participants will now be presented.

THOSE WHO ‘KNOW’ AND CHOSE TO PARTICIPATE

A total of 145 research participants were consulted during this study. Additionally, 18 schools were visited during the field research phases. However, not all of those informants were from school environments. Table 6.1 shows a breakdown of all participants by gender, ethnicity and vocation. Age is not included in the
table, as only those who completed the survey questionnaires were asked this information. Table 6.1 also
details the locality in which each of the participants was located when interviewed and/or tested. Most of the
informants were spoken to face-to-face with only three of the Australia-, and New Zealand-based participants
communicated with either by email or telephone, and the USA- and Europe-based informants were interviewed
via email.

Table 6.1
Participant characteristics.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Totals</th>
<th>Fiji</th>
<th>Vanuatu</th>
<th>N.Z.</th>
<th>Australia</th>
<th>USA</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>n</td>
<td>145</td>
<td>105</td>
<td>7</td>
<td>15</td>
<td>10</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Male</td>
<td>107</td>
<td>79</td>
<td>6</td>
<td>9</td>
<td>7</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Female</td>
<td>38</td>
<td>25</td>
<td>1</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Ethnicity</td>
<td>145</td>
<td>105</td>
<td>7</td>
<td>15</td>
<td>10</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>iTaukei</td>
<td>69</td>
<td>67</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Fijian</td>
<td>42</td>
<td>42</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ni-Vanuatu</td>
<td>4</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Māori/Pakeha/ New Zealander</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Australian</td>
<td>9</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>American</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Europeans</td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Environment</td>
<td>145</td>
<td>105</td>
<td>7</td>
<td>15</td>
<td>10</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Urban</td>
<td>97</td>
<td>64</td>
<td>0</td>
<td>15</td>
<td>10</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Semi-urban</td>
<td>16</td>
<td>14</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rural</td>
<td>32</td>
<td>32</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vocation</td>
<td>145</td>
<td>105</td>
<td>7</td>
<td>15</td>
<td>10</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Teacher: Principal/HoD</td>
<td>17</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Teacher</td>
<td>51</td>
<td>51</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MoE Official</td>
<td>8</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Govt. Official</td>
<td>9</td>
<td>6</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Church Official</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Academics</td>
<td>36</td>
<td>11</td>
<td>0</td>
<td>10</td>
<td>10</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Other</td>
<td>22</td>
<td>17</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 6.1 shows that 107 of the participants were males and 38 were females, with the later group comprising
26.2% of the total informants. Two reasons exist for the greater percentage of male participants over female.
Firstly, only a small number of females (6 out of a total of 36 participants) were required for cognitive test
assessment (see later this chapter). Secondly, males tended to comprise the majority of those interviewed at
the MoE, Fijian Government departments and school Principal positions, which generally reflect what I have
observed as being the gender makeup of government heads in that country. Alternatively, females tended to
comprise the majority of the non-administrative hands-on positions in the academic settings. In the interests
of anonymity, participant details have been kept vague and will not be extrapolated further.

Ethnically, when iTaukei and Fijians are compared in Table 6.1, the former account for the majority (69, or 62%)
of those tested and interviewed while the latter comprised 42 participants (or 38%). Participant ethnicities
also included ni-Vanuatu, Māori and Paheka (European) New Zealanders (NZ), Australians, Americans and Europeans, equating to 34 informants, or 23% of total participant numbers. Vocational, teachers, which included school principals and heads of departments (HoDs), accounted for 68 (or 47%) of all participants. MoE and government officials included the Fijian Minister of Education and Fijian school inspectors, together with Fijian provincial officers and government statisticians. Education policy advisors and Public Service Commission (PSC) staff from both Fiji and Vanuatu were also spoken to. These participants comprised 17 (or 11%) of the total participants. The remaining 60 (or 41%) participants were made up of two (1%) Fijian church officials, 36 (or 25%) academics such as Fijian-based development, economics and education experts, a number of international and New Zealand-based specialists in indigenous substances and advisors on psychometric testing and cognitive assessment of ethnic minorities. The final category of participant – ‘others’ – equated 22 (or 15%) and comprised spouses of teachers, training and productivity personnel, village chiefs and matanivanua (spokespersons), and targeted informants. Again, the identity of these participants has deliberately been keep vague to ensure anonymity.

In Table 6.1 I have intentionally not identified the specific school of a teacher participant, nor do I detail the subject vocation of each teacher in Tables 6.1 and 7.1. This would offer the possibility, through a process of elimination if tables were combined, to identify participants, particularly if they were to teach in strictly defined or limited subject areas such as physics or computer studies. Nevertheless, to ensure wide representation, participants were selected across a variety of teaching subject areas which included, although were not limited to, woodwork, technical drawing, computer studies, home-economics and physics through to core subjects such as English, math and science, as well as with multi-curricular subjects in the case of primary school teachers. Therefore participant subject vocations were not ‘stacked’ in favour of one particular teaching stream offering a wide participant knowledge base to aid research validity. Although my participants cannot be classified as truly representative of all teachers across all ethnicities, teaching streams, intellectual levels and ages, I would nevertheless argue that strong efforts were made to provide a quality sample.

SCHOOL RESEARCH SITES
Table 6.2 details the schools visited during the field research periods, whereas Figure 6.1 aids in identifying their geographic locations. The 18 schools visited were located as close as a few hundred metres from a central business district to several hundred kilometers from the capital Suva. Matuatabu Primary School, a small rural campus on the island of Ogea in Southern Lau, was the furthest school from Suva and took over 23 hours (non-stop) to reach in the Dausoko, the small Fijian government research vessel. This area is extremely remote, and is only visited once per month by a government supply boat. I was privileged to travel to this and other schools in Southern Lau as part of a Government research team.
Table 6.2
Schools visited during the field research periods: May-June and November-December 2009.

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>CATEGORY</th>
<th>AFFILIATION</th>
<th>STAFF No.</th>
<th>STUDENT No</th>
<th>BOARD -ING</th>
<th>STUDENT BREAKDOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fulaga District Primary School, Fulaga Island, Southern Lau.</td>
<td>Rural</td>
<td>Community school</td>
<td>4</td>
<td>47</td>
<td>Y</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Kavanagasau Secondary School, Sigatoka, south central Viti Levu</td>
<td>Rural</td>
<td>Sanatan (Hindi) / Community</td>
<td>12</td>
<td>166</td>
<td>N</td>
<td>49% iTaukei, 51% Fijian</td>
</tr>
<tr>
<td>Matuatabu Primary School, Ogea Island, Southern Lau.</td>
<td>Rural</td>
<td>Community school</td>
<td>3</td>
<td>19</td>
<td>N</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Ratu Mocevakaca Memorial School, Matuku Island, Southern Lau.</td>
<td>Rural</td>
<td>Community school</td>
<td>4</td>
<td>41</td>
<td>N</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Naikleyagaga Village Primary School, Kabara Island, Southern Lau.</td>
<td>Rural</td>
<td>Community school</td>
<td>3</td>
<td>27</td>
<td>N</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Namuka-i-Lau District School, Namuka-i-Lau Island, Southern Lau.</td>
<td>Rural</td>
<td>Community school</td>
<td>4</td>
<td>68</td>
<td>N</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Richmond Methodist High School, Kadavu Island, southern Fiji.</td>
<td>Rural</td>
<td>Methodist Church school</td>
<td>19</td>
<td>168</td>
<td>Y</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Richmond Methodist Primary School, Kadavu Island, southern Fiji.</td>
<td>Rural</td>
<td>Methodist Church school</td>
<td>3</td>
<td>103</td>
<td>N</td>
<td>100% iTaukei</td>
</tr>
<tr>
<td>Baulevu High School, Naurosi, eastern Viti Levu.</td>
<td>Semi-urban</td>
<td>Sanatan (Hindi) / Community</td>
<td>21</td>
<td>239</td>
<td>N</td>
<td>33% iTaukei, 66% Fijian</td>
</tr>
<tr>
<td>Lomawai Secondary School, Nadroga, south central Viti Levu.</td>
<td>Semi-urban</td>
<td>Community school</td>
<td>33</td>
<td>540</td>
<td>Y</td>
<td>70% iTaukei, 30% Fijian</td>
</tr>
<tr>
<td>Navuso Secondary School, Naurosi, eastern Viti Levu.</td>
<td>Semi-urban</td>
<td>Methodist Church school</td>
<td>10</td>
<td>190</td>
<td>Y</td>
<td>99% Fijian</td>
</tr>
<tr>
<td>Shreedhar College, Naurori, eastern Viti Levu.</td>
<td>Semi-urban</td>
<td>Pundit Shreedhar (Hindi) school</td>
<td>24</td>
<td>246</td>
<td>N</td>
<td>99% iTaukei</td>
</tr>
<tr>
<td>Jasper William High School, Lautoka, western Viti Levu.</td>
<td>Urban</td>
<td>Methodist Church school</td>
<td>37</td>
<td>730</td>
<td>Y</td>
<td>50% iTaukei, 50% Fijian</td>
</tr>
<tr>
<td>John Wesley College, Suva, eastern Viti Levu.</td>
<td>Urban</td>
<td>Methodist Church school</td>
<td>9</td>
<td>609</td>
<td>N</td>
<td>95% iTaukei, 5% Fijian</td>
</tr>
<tr>
<td>Lelean Memorial (Secondary) School, Naurosi, eastern Viti Levu.</td>
<td>Urban</td>
<td>Methodist Church school</td>
<td>59</td>
<td>1400</td>
<td>Y</td>
<td>95% iTaukei, 5% Fijian</td>
</tr>
<tr>
<td>Lovu Sangram Primary School, Lautoka, western Viti Levu.</td>
<td>Urban</td>
<td>Sangram (Hindi) school</td>
<td>18</td>
<td>560</td>
<td>N</td>
<td>33% iTaukei, 66% Fijian</td>
</tr>
<tr>
<td>Suva Assembly of God Secondary School, Suva, eastern Viti Levu.</td>
<td>Urban</td>
<td>Assemblies of God Church school</td>
<td>43</td>
<td>749</td>
<td>N</td>
<td>30% iTaukei, 70% Fijian</td>
</tr>
<tr>
<td>Vunimono High School, Naurosi, eastern Viti Levu.</td>
<td>Urban</td>
<td>Sanatan (Hindi) school</td>
<td>54</td>
<td>1152</td>
<td>N</td>
<td>50% iTaukei, 50% Fijian</td>
</tr>
</tbody>
</table>
Figure 6.1
Schools by geographic location visited during field research: May-June and November-December 2009.
Schools provided a variety of assistance toward the research. This ranged from one to a combination of the following: staying for several hours or a number of days at a school with teachers in their staff quarters, consuming yaqona with hosts, access to teaching staff, board members and/or the parents of students for between one hour and several consecutive nights, observing school culture and education delivery, attending end of year graduation ceremonies, surveying participants, interviewing informants and/or cognitively testing selected teachers. There was no pattern to what was accomplished at each school. For example, I arrived at one particular school at lunch time, sevusevu to the Principal and a HoD, observed several teaching sessions, consumed yaqona with staff that evening where we veitalanoa (discussed) my research, stayed with a teacher friend overnight, and departed the following morning. A quick visit that could appear to have achieved little although actually resulted in the gathering of some exceptionally valuable information. Details regarding the specific methodology at individual schools has deliberately been kept vague to aid anonymity.

Eight (or 44%) of the 18 schools visited were located in the rural areas. Four (or 22%) were in the semi-urban areas, while six (33%) were urban based. Of the total schools visited, six (or 33%) were designated community schools – meaning they lacked a religious affiliation or were one of the few Government Schools in Fiji, seven (or 38%) were Christian Church (Methodist and Assemblies of God) administrated, and five (or 27%) were Hindi (Sanatan and Pundit Shreedhar). All operate under the State/Community partnership scheme which was explained in Chapter 4 (p.54). Finally, no formal system of school selection was utilized. Research sites were chosen in order to provide a diverse spread of schools as influenced by geographical location, rural, semi-urban and urban categorisation, student numbers, community and religious affiliation, accessibility and local contacts in order to ensure wide representation.

During visits, schools were asked for a rough percentage break-down of the two main ethnicities, iTaukei and Fijian. The majority of rural schools visited were attended by iTaukei students with the exception of Kavanagasau Secondary School, which is situated above the fertile plains of the upper Sigatoka River. This area is well known for agricultural farming undertaken predominantly by Fijians, with their children attending the local secondary school. When the ethnic makeup of the four semi-urban schools is considered, collectively these represent an almost 50/50 split. The most interesting though is Shreedhar College in Wainibokasi near Nausori town. This is a Hindi-affiliated school although almost all of the students are ‘Christian’ iTaukei. This anomaly was discussed with an informant at another school who had previously taught at Shreedhar College. They stated that iTaukei parents sent their children to this Hindi-affiliated school to capitalise on Fijian academic success (iTaukei and Fijian academic disparity was discussed in Chapter 4, see p.55-59). Additionally, these parents were prepared to overlook the compulsory Hindu religious instruction in order to achieve this aim (IQ006). Finally, student ethnicity at the urban schools visited during the field research varied, with the figures presented above failing to offer any definitives on the ethnic make-up of urban schools. For example, John Wesley College and Lelean Memorial are recognised as iTaukei educational facilities, and naturally reflect a strong presence of that ethnicity, whereas Lovu Sangram Primary School is situated close to the Lautoka sugarcane area and has a high Fijian populace.

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48 Nabobo-Baba et al. (2012:xviii-xix) explain that typically ‘rural’ and ‘urban’ are based on population density however in the case of Fiji, due to extremes between populated areas and “remoteness”, such classification is difficult. In their 2000 education review the MoE attribute the following characteristics to rural and urban (Tavola, 2000:162):

<table>
<thead>
<tr>
<th>Rural category:</th>
<th>1: 10-20 km from a town boundary</th>
<th>2: equal to or greater than 20 km from town boundary</th>
<th>3: very remote school</th>
</tr>
</thead>
</table>

This study has added an additional category of semi-urban. This is because the MoE ‘rural’ categorisation is extremely broad, ranging from 10 kilometres from a “town boundary” to extremely remote. Matuatabu Primary School on Ogea Island in Southern Lau is an example of such a school. This is only accessible once per month on a supply vessel. Essentially I have defined semi-urban schools as those beyond a “town boundary” that were accessible by a public transport bus (albeit infrequent in some cases). In contrast I have defined rural schools as those that required more effort to access such as the organisation of a flight, sea travel, a private four-wheel-drive vehicle or on foot.
The largest school visited was Vunimono High School in Nausori, with a school role of 1,152 students and 54 staff. The smallest school, with three staff and 19 students, as mentioned above, was Matuatabu Primary School in Southern Lau. Schools in the rural and semi-rural areas tended to have vastly fewer staff and student numbers when compared with those in the urban areas. The only exception to this was Lomawai Secondary School with 540 students, categorised as semi-urban and situated approximately one hour from Fiji’s second-largest city, Nadi. This school services a highly populated agricultural area with the nearest urban secondary school approximately half an hour away in Sigatoka. Six (or 33%) of the schools I visited had a boarding component. Overall, boarding schools tend to be more common in the rural areas as students often do not have the luxury of public transport. The main difference between boarding schools located in the rural areas from those at semi-urban and urban schools was staff accommodation. Rural boarding schools, due to their isolation, were more likely to provide accommodation within the compound for all staff members whereas semi-urban and urban schools were more likely to have only a few staff members living onsite who were responsible for the welfare of the live-in students. Further, staff that lived in the compound usually socialised together – this frequently included yaqona consumption. More detail regarding notions of community and the formation of surrogate village communities by staff living together in school compounds was discussed in earlier research (Aporosa, 2008:67). What will now be discussed are the field research methodological procedures.

PROCEDURES (FIELD RESEARCH)
As was explained above, the MoE requested in their research and ethics approval that I “liase [sic] directly with target schools and personnel”. Upon my arrival at schools, my first action was to meet with Principals or the designated HoD if the Principal was absent. In situations where I was unknown to these people, former teaching colleagues, if present, would often accompany me. In most cases I presented isevusevu on entry, including a brief explanation of the research. This was followed up with the Participant Information Sheet (PIS), Participant Consent Form (PCF) and MoE Research Authority. Although the PIS and PCF stated that the research had been approved by the MoE, the ‘Ministries’ Research Authority played a crucial role. In effect, the document acted as a research request – as if the Ministry was asking ‘Can I please have your approval to conduct this research?’; a question my methodology and culture prevented me from asking directly as discussed above. At every venue, without exception, I was greeted with enthusiasm. Without question my isevusevu played a key role in this. As I explained in Chapter 5, isevusevu is in essence a manifestation of vakaturaga; the primary means of chiefly acknowledgement, introduction, request and reciprocity that if presented correctly, can transform a complete stranger into a long-lost friend (p.68-70). Undeserved positionality of this nature, with its entry rights and hospitality entitlements, I would suggest, is extremely difficult to comprehend unless experienced.

When isevusevu was presented in the school setting this was often reciprocated with the mixing and offering of yaqona. In cases where I arrived at schools in the late afternoon, my isevusevu frequently initiated yaqona sessions that would include staff. These sessions often went on into the early hours of the following morning. Although such events seriously limited my sleeping hours and were accompanied by large yaqona consumption volumes, they equally proved extremely valuable as sites of information sharing and diffusion which in turn led to many participants approaching me and making themselves available for interview and cognitive testing. In cases where isevusevu were presented and reciprocated during school hours, it was not uncommon for teachers to also be present. They often informed other members of staff of my reason for being in their school, further aiding in stimulating interest in the research and offers of assistance. The use of the isevusevu in order to outline the focus of the research, together with the seeking of permission, complied with Vanua Research. Further to this, three other methods were utilised during the field research.

SURVEY FORMS
Post-isevusevu, teacher yaqona sessions, staff rooms and occasionally one-on-one meetings acted as sites for the administration and completion of a Teacher Survey Form (Appendix J). In total, 63 teachers were surveyed at 15 schools. This enabled the collection of both qualitative and quantitative data to give specificity to accepted practices. For example, it is accepted that some teachers drink yaqona until late in the evening...
several nights per week (Aporosa, 2008:75-6). This survey sought to update those reports. Further, it sought data on absenteeism due to sickness. This information will be drawn upon in the following three chapters to aid in answering specific aspects associated with the research questions.

Although Chambers (1983:50-1) stated that “Questionnaire surveys… embody the concepts and categories of outsiders rather than those of rural people, and thus impose meanings on the social reality.” Similarly Kumar (2002:316) is critical of surveys and questionnaires, arguing they are time consuming and fail to “allow peoples realities to come out”. In my case, questionnaire surveys were administered with respect for appropriate local protocol systems to assist in uncovering understandings which are supported or critiqued by ‘insiders’, and not to impose meaning from ‘without’, an approach supported by the MoE (2000:169). Further, they saved a great deal of time, enabling me to quickly identify participants for cognitive testing, whereas talanoa and one-on-one semi-structured interviews “allow[ed] people’s realities to come out” and further aid my “generative experimental” Vanua Research approach (Gibson-Graham, 2005:6).

SEMI-STRUCTURED INTERVIEWS

113 of the 145 participants were interviewed using designated sets of semi-structured questions (Appendix J). For instance, one set of questions was developed specifically for school principals, others for non-drinking and yaqona-consuming teachers with additional questions designed to allow for the perspectives of female teachers, the spouses of teachers and those of different ethnicities. Responses were also sought to understand different perspectives on bole (competitive yaqona consumption) and ‘grog abusers’, plus specific questions designed for a number of individuals that included, although were not limited to, the Minister of Education, Senior Education Officer’s (SEO), key academic informants, a number of civil servants in defined roles and training and productivity officers. Research questions aimed at this latter group (with the exception of the Minister of Education) have deliberately been excluded from Appendix (K) as they offer the potential to identify an informant.

Although semi-structured interview questions appear rigid on paper, they were used as more of a guide. Flexibility allowed some questions to be eliminated from an interview where applicable, or built upon where necessary. During interviews, deductive reasoning and the process of continuously asking for clarification with the use of ‘why’ aided in seeking out subconscious explanations. This proved valuable in foraging cultural concepts that locals actively engage as part of everyday indigenous life-ways without consciously reflecting on these. Johnson (2006), referring to the work of Bourdieu (1977:164-71), describes this concept as “doxa”, or the taking “for granted and unquestionable in a given society” (Moore, 2009:334-6). Turner (1992:293), also drawing on Bourdieu’s work, argues that iTaukei life-ways tend to be subconscious practical expressions resulting from repetitive cultural application; knowledge that is often difficult for them to explain and verbalise. The deductive approach utilised during the semi-structured interviews proved extremely valuable as part of identifying and clarifying reasoning behind cultural practices. Finally, to aid and ensure accuracy of interview response, almost all interviews were recorded on a digital dictation device and transcribed on my return to New Zealand.

Following transcription, the semi-structured interview responses were analysed using “focused coding” (Emerson, Fretz & Shaw, 1995:157-162). This consists of identifying and coding themes from participant responses together with observations and field notes. Focused coding aids the researcher to “generate theory that grows out of, or is directly relevant to activities occurring in the setting under study” (ibid, 1995:167). This further assists in identifying themes that did not specifically or significantly add to the direction of the thesis. However the questions that generated these responses have been retained in the questionnaire as presented in the Appendix. Finally, emphasis has been placed on the use of interviewee quotes in writing up the findings. This has enabled the participants to more accurately voice their opinions, or where possible, has allowed one informant to represent several similar responses. Finally, as previously noted, quotes are basically presented as stated, therefore grammatical irregularities are intentional.
PARTICIPANT-OBSERVATION VERSUS PARTICIPATING-INTERPRETER

Bernard (2006:342-386), in a chapter on participant-observation within the fourth edition of his key anthropological text, questions the ethics of this method. He rightfully describes it as shallow and deceptive, based on the ‘dark art’ of “Gaining rapport (p.369)… getting close to people and making them feel comfortable so that you can observe and record information about their lives (p.342)”. He adds that participant-observation “involves immersing yourself in a culture… [and then] learning to remove yourself everyday from that immersion so you can intellectualize what you’ve seen and heard… and write about it convincingly” (p.344). Although observation comprised part of my overall methodology, I feel the term ‘participating-interpreter’ is a more accurate description.

As I have previously explained, my first priority when visiting locations in Fiji or the homes of iTaukei in New Zealand is to contribute as an honest, authentic member in the life of that community or home. This I term ‘participating’. Much of what happens in these communities is extremely familiar to me and comprises a major aspect of my own life-ways. Therefore I would argue that my secondary role as researcher required me to interpret and record certain happenings as they related to my research theme. This included but was not limited to aspects such as yaqona consumption volumes and times, ethnic makeup of consumers, impressions of alertness and comprehension of teachers the morning following yaqona consumption, and school environmental factors. My role as a participating-interpreter positioned me as both an ‘insider’ and an ‘outsider’. Although ethnic links to a research site is often believed to be the precursor to ‘insider’ status (Narayan, 1993:677), it is ‘depth of membership’ that academics argue is the true component, one that enables meaningful participant-observation or participating-interpretation.

Arweck & Stringer (2002) argue that the ‘insider/outside’ position is contrasted and defined by “membership”, with depth of membership reflecting accuracy of observation (p.2-3). Angrosino (2008:167) furthers this, stating that an ethnographers “membership” and identity within their community of study is critical to “observation-based social research” reliability. Finally, Williams (2010:107) asserts, “depth of membership” aids in the ability to understand and comprehend information that is “often encoded in culturally specific ways”; in other words, the greater the ‘depth of membership’, the greater the comprehension and understanding and therefore the higher the ‘insider’ value.

‘Depth of membership’ together with previous experiences in Fiji, which I will discuss in greater depth shortly, had four key advantages for me as a participating-interpreter. First, as discussed above, it granted me a great deal of freedom and choice regarding access to research venues including extremely high levels of trust and openness from participants. Second, relational connectedness and this trust and openness were critical to research accuracy, a theme acknowledged by Bourgois (1995:13) above. Third, ‘depth of membership’ greatly assisted in understanding expectations, cultural processes, body language and linguistic nuances. Finally, my return to remote environments, often with sparse conditions, enabled a simple transition without having to initially interpret through a layer of culture shock; uncomfortability frequently experienced by some urban teachers when first transferred to isolated rural areas. These advantages however were countered by several negative attributes, which I will discuss following explanation of my ‘insider/outsider depth of membership’ status as an academic investigator.

‘INSIDER/OUTSIDER’ AND “DEPTH OF MEMBERSHIP”

Prior to discussing my ‘outsider’ role as a researcher, I will first explain how, from a genealogical perspective, I was both an ‘insider’ and an ‘outsider’ within the communities I investigated during the field research. My ‘outsider’ status derives from my birth place, New Zealand and not Fiji. My father is New Zealand Pakeha and I have lived most of my life in New Zealand. However, what simultaneously contributes in part to my ‘insider’ status is my mother’s father, who was Fijian-born. His great grandmother is ‘full-blooded’ iTaukei, granddaughter of Tui Macuata, one of the three high chiefs of Vanua Levu. With the aid of Gardère & Routledge (1991:38,41), I can trace my iTaukei ancestry back to the mid-1500s. Although my lineage to Fiji is ‘separated’ geographically by a generation (creating ‘outsider’ dynamics), it is my ‘membership’ to this community that contributes to my real ‘insider’ status.

I ‘identify’ as iTaukei, speak basic vosa vakabau and the majority of my socialising and support systems comprise kai Viti (people of Fiji). Potentially, my mobile phone contact list puts my relational/social connectedness into perspective. This contains 378 contacts: 36 are businesses, 44 are New Zealand Pakeha, 43 are Tongan, Sāmoan,
Rarotongan or Māori, and the remaining 255 are kai Viti. I am a member of the Hamilton (NZ) Fijian Community and an advisor to and member of the Hamilton Fijian Methodist Church. I meet or socialise at least three times per week with my iTaukei and Pasifika friends and relatives, where most often yaqona and its related culture, together with vosa vakabau and itovo vakaViti (‘the Fijian Way’), are the centerpieces. Over the past 12 years I have travelled 27 times to Fiji having lived and worked there in excess of 600 days. Much of this time was spent in rural Kadavu, where I both taught and assisted in development projects in and around Richmond Methodist High School. When in Fiji I stay with friends or family members in their homes, living as a member of the community and taking on the responsibilities and roles required of a male iTaukei of my age. I also have two yaca (name-sake children) in Fiji. As Sahlins (1962:183) and Becker (1995:176) explain, yaca relational unions are not undertaken lightly, with parents seeking to name their children after others they perceive as having cultural standing and understanding – appropriate role models who then become family members if not already related. One is Aporosa lalai (‘small Aporosa’), my yaca from Natokalua Village, Kadavu, nephew of Tui Rauni (na i Turaga ni Yasana – the sub-district chief). This relationship accorded me land and farming rights, which enabled me to cultivate and harvest yaqona over a four-year period and which greatly aided praxis in terms of this research theme.

In summary, when applied to my situation, the literature and discussion so far argues that although genealogic connection to Fiji has some influence, it is my ‘membership’ within the communities I have lived in and continue to associate with that determines ‘insider’ status levels. This concomitantly shapes acceptance, trust levels, honesty and research accuracy. It does not however make a researcher immune to ‘outsider’ impressions by those in the community being investigated.

**POWER RELATIONSHIPS**

The ‘outsider/researcher’ juxtaposition has been widely discussed, especially in terms of power relationships. Henn, Weinstein & Foard (2006:98), drawing on other academic sources, acknowledged that while it may be the full intention of a researcher to be in relationships of equity, research is infused with power, especially in societies and communities lacking research experience. Momsen (2006:45) adds to this debate by first citing post-development literature and its critical stance regarding the legitimisation of Western development discourse and the marginalisation of the local voice. She then asserts that even when there is ‘insider’ and gender compatibility between local and researcher, “educational differences… can create barriers” (p.49).

In Fiji, University graduates are often esteemed and accorded higher levels of status similar to that of village elders. This contributes to power relationships in which research participants can feel obliged to meet researcher requests and answer questions.

I discussed the theme of research obligation with some of my family members at a yaqona session during my Master’s field research. They explained that for iTaukei, vakaturaga was the key cultural driver behind feelings of obligation. When this is combined with a request from a researcher who is deemed to have status as discussed above, unequal participant/researcher power relationships can develop. Although participants can feel obligated to meet such requests, this does not necessarily lead to information accuracy. My family went on to describe an experience they had with a Western-born academic who had stayed with them in the village for several days conducting research. While every effort had been made to accommodate this person, the visitor constantly appeared dissatisfied. This eventually caused a conflict of emotion in the hosts. On one hand they believed their visitor was dokadoka (had an arrogant condescending attitude), while on the other they felt madua rarawa, vakamavoataka (shame and hurt), believing they had failed to adequately care for their guest.

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49 The day after I was told of this situation, I went to the village communal meeting area and presented a matanigasau (formal apology accompanied by yaqona). I explained that although I was family and also felt madua kei na vakamavoataka, on this occasion I was presenting the matanigasau from my ‘outsider’/researcher position and apologised for the actions of a peer who represented me and fellow academics. I was surprised at the level of hurt that remained. One respondent reciprocated the matanigasau with an emotional and tearful acknowledgement stating that they felt they had not lived up to appropriate hosting standards. The cultural importance placed on the care of guests is a theme discussed by Thomas (1997:173-4), who argued that host responsibility together with the standard of that obligation is both a manifestation and reflection of iTaukei identity. Therefore an unhappy guest, no matter the reason, is deemed by the host to be simply an indication of the host’s lack of attention, concern, resources and vakaturaga ideals. To my sadness I also heard a number of other negative reports about this same researcher’s behaviour while travelling around Fiji. I had the opportunity to discuss this with this researcher, although this was denied and rationalised as a village shortcoming.
The family members added that although they wanted to say something to the visitor, *vakaturaga* prevented this, just as the ethos encouraged hosting standards through obligation. Instead, reaction to the researcher's behavior was demonstrated subtly. The villagers stated that although they appeared to willingly oblige with research requests, much of the information offered was either false or comprised veiled responses. This in turn compromised information accuracy. Such action demonstrates that research power relationships can, in some circumstances, exist bi-directionally, a theme also discussed by Scheyvens & Leslie (2000:125-6).

Notwithstanding this situation, geographical ‘outsiders’ are still capable of becoming high-leveled ‘insider members’. American-born Australian National University research fellow Dr. Matt Tomlinson is an example of this. Tomlinson spent considerable time in the chiefly village of Tavuki on Kadavu Island as a researcher in the late 1990s and early 2000s. While visiting the village I frequently heard Tomlinson referred to as *na gone susugi mai Tavuki* (‘adopted son of Tavuki’), a title that demonstrates his ‘depth of membership’.

In my case, as a post-graduate researcher, my ‘outsider’ position was most noticeable when I first entered *yaqona* sessions. Frequently I was encouraged to ‘*dabe i cake*’ (sit ‘up’ at the chiefly position), a move I managed in most cases to argue my way out of. Unlike arguing in the traditional sense of staking a knowledgeable claim, this is more of a humble apologetic spar guided by the ethos of *vakaturaga* and common to iTaukei behavioral patterns. My ‘argument’ was framed to elevate the status of my host while simultaneously diminishing my own importance in order to bring about a mutual agreement that I did not warrant the position my host was attempting to elevate me to; this therefore prevented me from having to move up to the chiefly sitting position.

Sahlins (1962) discussed a similar situation while researching in Lau. He explains that although he made an effort to ‘be local’ he came to realise that it “was unrealistic to believe that any European can be fully ‘accepted’… [because] a European is [viewed as] some sort of power” (p.2). Sahlins adds though that he did manage to make some progress in diminishing this perceived power imbalance. “I even succeeded in lowering my rank, moving from first-served (hence highest) in kava drinking… to sixth or seventh after a few months” (p.3), although he admitted that as a European he was never “entirely trusted” (p.2). Unlike Sahlins, Tomlinson appears to have overcome acceptance issues, although time and exposure to *kaivalagi* (overseas visitors) could also be a factor here as Sahlins carried out his research some 40 years prior to Tomlinson. In my case, refusing to *toso i cake* (move up) at *yaqona* sessions acted as a type of counter-balance, further reducing the ‘quantity’ of my ‘outsider’ status and ‘crediting’ my ‘insider’ position. I could be accused of playing ‘insider/outsider’ games here to advantage myself, but I would strongly refute this: my ‘usual’ sitting position at almost every *yaqona* session I attend is routinely *i ra* (down/below), behind the *matanitanoa* (the ‘front/face’ of the *tanoa*; see Footnote 56) – a position of servitude.

Regardless of my *yaqona* seating position, ‘depth of membership’ or ancestral connections, my academic researcher status nevertheless manifested an unintentional power imbalance that simultaneously made me an ‘outsider’. Meo-Sawabu (2010:1-2), an iTaukei who researched female health issues among her own relatives, stated that during her field research she constantly had to negotiate “a fine balance” between her ‘outsider’ research status and her culturally indigenous ‘insider’ position. This is something I also experienced, a tension that manifested as I attempted to live and be an ‘insider’ and community member while simultaneously knowing I was ‘different’ and an ‘outsider’ because of my research responsibilities. I have pondered this juxtaposition at length since completing my field research and believe that overall my ‘insider’ value far outweighed my ‘outsider’ position. However, this was not challenge free.

**CHALLENGES AS AN ‘INSIDER’**

The first challenge of an ‘insider’ is, according to several ‘outsiders’, a lack of objectivity. Bernard (2006:372-3) argues that for a researcher studying their own culture, objectivity is their “biggest test... [as] it’s harder to recognize cultural patterns that you live with every day and you’re likely to take a lot of things for granted that an outsider would pick up right away”. I acknowledge that I have a tendency to idealise aspects of the culture I identify with. Although I continually remind myself of this romanticised view, I nevertheless often do not
question areas that others do, especially where I believe there is cultural reasoning for an action. This tends to be the case when it involves the ‘culture of yaqona’. Some argue that consumption practices that comprise the ‘culture of yaqona’ are irresponsible and compromise productivity and/or socio-cultural responsibilities. As a teacher and worker in Fiji there were numerous occasions when I left my students unattended or my work situation out of feelings of obligation to be present at isevokeva.

There were also times when I consumed yaqona during free teaching periods or during breaks at work. Additionally, there have been occasions in New Zealand when I have had people call at my home, resulting in yaqona being mixed. I have subsequently attended my place of work or have stayed up until the early hours, even though I had employment responsibilities the following morning. I have been challenged regarding my actions on a couple of occasions and have also been accused of unprofessionalism while I feel I can justify my actions by pointing to culture, host responsibility and respect, I have been told this legitimisation lacks objectivism.

Yaqona consumption was an ever-present accompaniment and challenge during the field research. There were days when I attended yaqona sessions as early as 7am and many occasions when these and other sessions went into the early hours forced me to survive on only a few hours sleep per night. It could be argued that I could have simply refrained or departed early from these sessions, but this would have countered the ethos of vakaturaga and failed to respectfully acknowledge and reciprocate the hospitality I was shown. On one occasion I arrived at a research venue to find an elderly villager had died. What followed was a 40-hour sleepless marathon involving a large amount of physical activity interspersed with numerous formal presentations and vast quantities of yaqona without a recovery period, prior to moving on to my next research site. Thorough pre-field research preparation and the use of a dictaphone to record interview responses were invaluable during these times. Additionally, there were occasions when, due to such unexpected situations or acute lomaloma ca, I postponed or did not administer some of the research methods.

The challenge of yaqona consumption and lomaloma ca was not confined to the field research. In my case, lomaloma ca is experienced as a lethargic ‘haze’ (similar to that encountered immediately upon waking in the night after deep sleep) that persists for many hours. This in turn promotes procrastination. Lomaloma ca also causes some memory disruption for me, small impairments such as difficulty in recalling the name of a friend I have known for years or failing to attend to a chore I had agreed to do, although with effort I can overcome this to some degree. Following several consecutive daily yaqona consumption sessions I often find it can take several more days before I feel I am ‘back to normal’ and able to mentally ‘wrestle’ with complicated concepts or produce a flow of written material I feel is of a reasonable standard. This suggests the impacts of steady-state concentration as described earlier (p.78-79).

Additionally, when writing this thesis following heavy yaqona consumption, I would frequently note grammatical irregularities after several days of abstinence, inconsistencies that had appeared correct over the previous days. To assess this, I had a clinical psychologist administer cognitive tests that make up the Wechsler Intelligence Scale (WAIS-III) to me the morning following a heavy night of yaqona consumption. This noted a ‘significant’ (‘significance’ and its value representation will be discussed later in the chapter) disruption in my mental sequencing, especially numerical arrangement. Although it is common for students to struggle with procrastination during assignment and thesis writing, in my case I believe this was exacerbated by lomaloma ca, which frequently challenged motivation, writing flow, grammar and sentence construction. A fellow student offered what they thought was a simple solution to these impacts on my writing: “Just stop drinking kava until you finish”. While this has merit, cultural factors concerning yaqona and the ethos of vakaturaga (as previously discussed) prevented such a simplistic approach. For me to abandon these cultural practices would amount to forsaking cultural obligation and therefore aspects of my personal identity.

Roberts (2001:9) argues that self-experimentation and the “n-of-one” (sample of one) has a valid place in research, supporting the idea that I could have used my own cognitive test results (as discussed above) to

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address this tension. This will not be done – although I do not question the validity of Robert’s findings, I believe such an approach would fail to adequately represent local voice and would therefore compromise my Vanua Research influenced methodology. Instead, teachers working in the classroom in Fiji were cognitively tested to gather grassroots data. This will be discussed in the next section. At this stage, one further comment is necessary, and this concerns the approach I have adopted in writing up the remaining chapters. Although Roberts intimates that my own cognitive test results have standing, and I can support this with personal experiences as a result of having lived, farmed, taught and consumed yaqona in Fiji, I have chosen from this point on to refrain from offering personal opinions or imposing suggestions regarding *lomaloma ca* and impacts on quality education delivery. Instead this will come from local voice and experiences in the remaining chapters to answer the three research questions to comply with the Vanua Research methodological approach.

**QUANTITATIVE MEASURE - COGNITIVE ASSESSMENTS**

The key influence on my decision to utilise psychometric tests to measure post-yaqona consumption cognition came following the completion of my Master’s study when a small number of people, mainly in Fiji, staunchly denied that a causal relationship existed between yaqona consumption and a hangover effect. Although literature exists that examines yaqona use and cognition50, some of which was discussed in the previous chapter (p.77-83), this has limited applicability in clarifying this issue. Cairney et al. (2003a:389), for example argue that cognitive impacts resulting from both chronic and acute yaqona use were “unclear” and conflicting. In a recent review of 10 studies which LaPorte et al. (2011:102) selected from a possible group of 219, they concluded that *kava* has no significant impact on cognitive processing. At first glance LaPorte et al.’s comment would appear indisputable, however in actuality this adds very little to the focus of my investigation. This is because most of the studies reviewed were clinically based and used small doses of *kava* between 200mgs and 600mgs, which as I pointed out are minuscule amounts compared to the average ingestion quantities. LaPorte et al. (2011:110) to their credit acknowledge this, suggesting the need for “research... on how kava affects cognition in both acute and chronic usage... [at] larger recreation doses”. Only one study could be found that administered large doses of aqueous yaqona to Fijian participants prior to cognitive assessment, and that was by Waqainabete (2003). Unfortunately this study also has limited applicability in supporting my ethnographic findings as it did not assess participants at a time that replicated the commencement of work.

The limitations of these prompted me to undertake exploratory and experimental in-vivo research using two psychometric measures. These will be explained following justification of their use under the indigenous Vanua Research framework utilised in this study.

**JUSTIFYING COGNITIVE ASSESSMENT USE WITHIN A VANUA RESEARCH FRAMEWORK**

As discussed earlier, I suggest the Vanua Research framework aligns well with a post-development approach. For instance, Nabobo-Baba (2007) states the values of Vanua Research as locally informed and driven, and “counter hegemonic” (p.1). To date post-development researchers have not utilised Western science based approaches or quantitative measures that clearly originate ‘outside’ of the local context. In a similar manner to Curry (2003), McGregor (2007), Gibson-Graham (2005) and McKinnon (2008), this study ventures into new territory and utilises and adapts an ‘outside’ approach – namely cognitive tests – as part of its Vanua Research influenced methodology in order to contribute to overcoming “the lack of post-development alternatives” (McKinnon, 2008:281). Essentially the cognitive tests were utilised to bring clarity to post-yaqona consumption affect within Fiji, an issue of subjectivity as explained above, and one the MoE has sought further understanding on. Additionally, to counter hegemonic leanings, the tests were modified to allow greater cultural alignment by comparing participants with one another as opposed to standardized (external) norms. This will be expanded on shortly. Essentially this research, together with the use of specific methods to investigate a local complexity, is aimed at supporting current cultural systems and processes informed by ‘insiders’ and not the subjugation of this through external systems of power or hegemonic influence. The use of psychometric assessment shows how quantitative measures can complement Vanua Research and the use of post-development theory.

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50 In contrast to the absence of studies on kava and cognition applicable to productivity, a substantial amount of research is available on alcohol hangover and workplace achievement. Much of this utilises quantitative assessment tools such as the WAIS-III subtests (Kelly, Folton, & Fischman, 1990:130) to measure impacts.
WAIS-III DIGIT-SPAN AND DIGIT SYMBOL-CODING SUBTESTS

Groth-Marnat (2003) suggests that to test concentration, short-term memory and attention aspects of cognitive function—which McGee & Fraser (2008:120) argue is necessary to the delivery of quality education—clinicians use “Processing Speed Index” tests, namely symbol search and coding assessment measures (p.150). Two psychometric assessment tools specifically developed for this purpose are the Digit-Span and Digit Symbol-Coding subtests. These comprise two of the 14 subtests that make up the WAIS-III test battery, an instrument used to measure a wide range of cognitive functioning ability (Kaufman & Lichtenberger, 1999:5), and recognised as the “most frequently used” and authoritative worldwide (Daniel, 1997:1038). The Digit Symbol-Coding subtest requires participants to match symbols and numbers within a 120-second time period (see Appendix L). This measures—perceptual organization, convergent production and evaluation of symbolic stimuli, sequential processing, encoding information for further cognitive processing, faculty with numbers, learning ability, reproduction of models, short-term memory (visual), visual sequencing [in order to access] processing speed, broad speediness, paper-and-pencil skill, visual-motor coordination, clerical speed and accuracy, psychomotor speed (Kaufman & Lichtenberger, 1999:100-1).

The Digit Symbol-Coding subtest “examinee score is determined by the number of symbols correctly drawn within the 120-second time limit” and takes into account errors in ascertaining the processing score value (Wechsler, 2007a:93). The aim and function of this test is critical to later findings.

The second measure, the Digit-Span subtest, requires participants to repeat a series of numbers in both forward and reverse order (see Appendix M). This measures—working memory, short-term acquisition and retrieval, memory of symbolic stimuli, sequential processing, encoding information for further cognitive processing, faculty with numbers, short-term memory (auditory), immediate rote recall [in order to access] auditory perception and simple stimuli (Kaufman & Lichtenberger, 1999:91-2).

Although Kaufman & Lichtenberger are detailed in their description of the specific cognitive areas measured by the Digit-Span and Digit Symbol-Coding subtests, they can also be confusing, as there appears to be large areas of crossover. For instance, both subtests are said to measure “sequential processing, encoding information for further cognitive processing, [and] faculty with numbers”. This is because the brain does not work in isolation; rather it draws on numerous cognitive aspects in achieving a given function. Weiss, Saklofske, & Prifitera (2003) are helpful in further clarifying the specific focus of these psychometric tests. In a concisely presented table they explain that the Digit-Span subtest, which, while having crossover attributes, is primarily designed to assess the “Working Memory Index (WMI)” (p.152). Working memory is the cognitive function that gives “the ability to retain and associate information over brief time intervals” (Tesche & Karhu, 2000:919). Alternatively, the Digit Symbol-Coding subtest, which also has cognitive function crossover, specifically measures the “Processing Speed Index (PSI)” through accuracy of “visual scanning, clerical speed, and the ability to process information rapidly” (Weiss, Saklofske, & Prifitera, 2003:152). Processing speed, as a cognitive function, enables “an individual… [to] process simple or routine information without errors” (Zhu, Weiss, Prifitera, et al., 2004:61).

All tests that comprise the WAIS-III have been standardised to a wide international demographic (Kaufman & Lichtenberger, 1999:10-11). Although the Fijian population was not included in that standardisation, Heaton, Taylor & Manly (2003:198-99) argue that these tests nevertheless have applicability to ethnic minorities. Groth-Marnat (2003:60) state that the WAIS-III scores are effected not so much by ethnicity, but by “socioeconomic status, intelligence, and education”. He added that cross-cultural disruption can be mitigated by a familiarity, on the part of the test administrator, “with the values and beliefs of the client’s culture…, [and the use of] language most familiar to the client” (Groth-Marnat, 2003:190-1). Additionally, the WAIS-III subtests are strongly influenced by earlier versions of the WAIS together with similar psychometric measurement tools such as the Stanford-Binet Tasks, the Army Performance Scale Examination and the Army Beta which were developed “to assess immigrants [recruited to the US Army] who spoke little English” (Kaufman & Lichtenberger, 1999:2).
THE DIGIT-SPAN AND DIGIT SYMBOL-CODING SUBTESTS AND ETHNIC MINORITIES

Although ethnic minorities and those with limited English are a consideration in the design of the WAIS-III, and researchers such as Heaton, Taylor & Manly and Groth-Marnat argue that ethnicity does not impact test scores, Ogden (2001), in her paper on psychometric assessments among Māori and Pacific Islanders, takes an alternative view. She suggested that because test scoring is derived from norms and standardisation, these tests “tend to favour people from the culture of the test developers” (p.2). Ogden adds that such “culturally-biased tests... result in discrimination against, and oppression of, an indigenous people by their colonisers who form the white majority” (p.2) and do not allow for alternative cultural knowledge, “lower educational qualifications, poverty and institutional racism” (p.3). However, at the same time she admits that because culturally specific psychometric assessment tools do not currently exist, assessors must engage flexibility and processes compliant with the participants culture in order to mitigate imbalance (p.4-9). Ogden’s comments have great applicability to this research considering its Vanua Research approach that seeks to eliminate hegemony. This is a theme I will occasionally return to during upcoming explanations on the subtest field research administration processes.

SAMPLE

SELECTION AND PARTICIPANT DEMOGRAPHICS

In late 2008 I met with a Massey University statistics advisor seeking guidance on a suggested sample size to aid psychometric test results accuracy. It was felt that although test standardisation comprised part of the WAIS-III, greater rigour would occur if the subtests were also administered to a ‘control’ group. This would allow for comparative data between the participants and have greater alignment with the Vanua Research methodology as it compared participants within the same environment as opposed to contrasting them with internationally situated ‘outsiders’. McCready (1996:102) suggests that in experimental projects that involve psychometric testing, literature containing a similar research focus should be used to guide sample sizes. Nine studies utilising the Digit Symbol-Coding and Digit Span subtests were consulted to determine appropriate participant numbers. Heinze et al. (1994) was chosen as the primary influence from these studies. They had administered the Digit Symbol-Coding and Digit Span subtests to 12 participants following clinically controlled doses of kava extract (p.225). This study set the minimum participant number.

The 2004 Fiji National Nutrition Survey (FNNS) (Schultz, Vatucaawaqa & Tuivaga, 2007:197), which discussed yaqona consumption by ethnicity and gender, acted as the second influence. This report stated that slightly more iTaukei males consume yaqona when compared with their Fijian counterparts. Because the percentage figures were quite close, it was decided that equal numbers of iTaukei and Fijian males would be selected for testing. Further, FNNS consumption by gender suggests that roughly two thirds of yaqona drinkers are male and one third female. Of the female consumers though, the majority are iTaukei, as it is rare for female Fijians to imbibe (see p.123). It was therefore decided that one third of the participants would be female iTaukei. The three educational environments (rurally isolated, semi-urban, and urban), influenced final composition of the participants, establishing an environmental/gender/ethnic grouping of 18 ‘active’ and ‘control’ participants. This breakdown is presented in Table 6.3.

51 In their text entitled Research for Development, Laws, Harper & Marcus (2003:459) state, the term sample is “often used loosely to refer to respondents within a study, even if no formal process has occurred (i.e. people were self-selected).” Sample in this study complies with this definition.
53 The Heinze et al. (1994) study was included in the LePorte et al. (2011:104,107) systematic literature review as it was deemed to have authority and met six strict predefined criteria.
Teacher participants between the ages of 25 and 29 years were targeted. This age group was chosen for two reasons. Firstly, it aligned with one of the 13 age scales within the WAIS-III allowing for ease of score calculation and interpretation (Wechsler, 1997b:7,9). Secondly, this age range increased the availability of ‘active’ participants for testing. Over the past 12 years while staying with teachers and visiting schools across Fiji, I have noticed that it is this age group who appear to be the most frequent attendees at yaqona sessions. I would suggest this is because they include a large number of new teacher graduates and junior staff members who are often unmarried. Although married teachers frequent yaqona sessions, single teachers tend to have increased social freedom as they are not restricted by spousal or parental responsibilities. Arno (1993:100) adds to this, mentioning that “cauravou, unmarried male[s]” tend to consume yaqona more frequently.

My participant selection process, based on age, gender and ethnicity, complies with “probability sampling” in that “members of... [my] sample have known probabilities of membership” (McCready, 1996:103). ‘Gold-standard’ methodological procedures such as placebo-driven randomised testing were not considered, nor could they have been. To do this would have taken considerable time and comprised a complete study of its own, attributes far beyond the exploratory parameters intended to add to this wider investigation (see Limitation later in this chapter). I would nevertheless argue that my methodology has strength, especially when considered alongside the research of Wyatt (1996). As part of his investigation into work performance and industrial accidents in PNG, Wyatt administered the Digit-Span subtest to “28 male operators of earth movers… after chewing various quantities of betelnut “ (p.451,454-5, italics added for emphasis). Participants were administered one or one-and-a-half betelnuts prior to testing (p.456). This demonstrates dose accuracy could not be guaranteed or standardized, a limitation that did not prevent the publication of this study in Psychological Reports, a journal considered to have authority within the psychology environment. Although testing procedures were followed as closely as possible, iTaukei and Fijian cultural practices together with their yaqona consumption environments did influence a number of small changes to the standard process. These will now be discussed as part of the testing procedures.

**COGNITIVE TEST PROCEDURES**

The two WAIS-III subtests were administered to the 36 teacher participants during the May and November 2009 field research periods. The teachers were selected from the survey form respondents. Prior to the administration of the subtests participants were shown the MoE research approval letter together with the Participant Information Sheet and Consent Form. Additionally, the purpose of the subtests was explained to them. The participant’s name, school, age and hours of drinking the previous night (if applicable) were recorded.

The hours participants had spent consuming yaqona the previous night were averaged. This will aid discussion of the test results and findings in the following chapters. The important point here is that participants were not given accurately measured doses of yaqona at defined times, nor was yaqona mix strength standardised across

<table>
<thead>
<tr>
<th>School category</th>
<th>iTaukei ‘active’</th>
<th>Fijian ‘active’</th>
<th>iTaukei ‘control’</th>
<th>Fijian ‘control’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural/isolated</td>
<td>Male 2</td>
<td>Female 1</td>
<td>Male 3</td>
<td>Female 0</td>
</tr>
<tr>
<td>Semi urban</td>
<td>Male 2</td>
<td>Female 1</td>
<td>Male 3</td>
<td>Female 0</td>
</tr>
<tr>
<td>Urban</td>
<td>Male 2</td>
<td>Female 1</td>
<td>Male 3</td>
<td>Female 0</td>
</tr>
<tr>
<td><strong>sub-totals (n)</strong></td>
<td><strong>6</strong></td>
<td><strong>3</strong></td>
<td><strong>9</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td><strong>Totals (n)</strong></td>
<td><strong>18</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
test subjects, hours of sleep monitored or prescribed, or placebo administered, standard procedures in many clinical tests. Such constraints would have been impossible to regulate within the traditional consumption environment frequented by the teacher participants who mix their *yaqona* to a desired strength based upon a visual measure and then set their own consumption pace. It was known though that alcohol use among the participants was extremely rare. From the perspective of *vakaturaga*, to prescribe a consumption strength and pace would have been culturally inappropriate. Instead, the participant’s *yaqona* consumption durations and quantities were averaged and calculated using the work of Duve & Prasad (1984) and Qereqeretabua (2006) as a guide (see previous chapter, p.77).

Participants were tested within a 30 minute period, either side of 8.30am, in order for the data to reflect the average time a teacher enters the classroom in the morning to begin teaching. Wechsler (1997b:28) stresses the importance of uniform procedures when using the WAIS-III to ensure test results can be interpreted accurately against score interpretation measures. Kaufman & Lichtenberger (1999:15) are a little more relaxed. They concur with Wechsler, but argue that small adjustments and flexibility must also be allowed for to ensure both administrator and participant comfort, which in turn increases test compliance and reliability. Ogden (2001:4-9) argues that flexibility with environmental factors, identity, support persons, cultural observances and local styles of vocabulary should be actively engaged to assist in eliminating imbalance. Therefore Ogden’s suggestions, together with those of Kaufman & Lichtenberger, were taken into consideration and also aided my decision to make slight modifications to the subtests. Within the Digit Symbol-Coding subtest, two of the original test symbols were substituted for simple alternate characters found in *iTaukei* art, figures also familiar to the *Fijian* demographic. These two substituted symbols are marked with the designator ◙ on the demonstration form in Appendix L. In the Digit-Span subtest (Appendix M), numbers were offered in both *vosa vakabau* and *Fiji Bāt* allowing participants a more friendly use medium.

To further aid test reliability, Wechsler (1997b:32) recommended specific instructions be followed. Participants were read these from a cue card prior to test commencement, although again, the wording was slightly modified from that used within the standard WAIS-III protocol allowing for a more friendly and relaxed approach (see Appendix N). All tests were conducted at a desk within a quiet classroom, staff office, or school library to ensure standardisation across test environments (Wechsler, 1997b:29). Additionally, the order in which tests were administered was strictly observed with the Digit Symbol-Coding test being completed first (Wechsler, 1997b:36-7). Further, a strict time observance of “exactly 120 seconds” was maintained during the administration of all Digit Symbol-Coding tests (Kaufman & Lichtenberger, 1999:31).

Wechsler (1997b:31-2) and Kaufman & Lichtenberger’s (1999:16-8) guidelines regarding the establishment and maintenance of rapport was noted. Again, slight alterations were made to allow for cultural and environmental factors to aid test administration. This included *vakaturaga* observances and the use of appropriate language and behaviours regarding *vanua* connections. *Vanua* connections, as discussed in the previous chapter (p.76), influence attitudes of respect or alternatively encourage good humoured banter. Understandings of this nature are vital – Ogden (2001:4) argues that a lack of familiarisation with the culture of the participant, together with cultural insensitivity, can create a “power imbalance [that] will impact on the client’s test performance or willingness to be open” with the administrator.

**COGNITIVE TEST DATA ANALYSIS**

To gain meaning from the cognitive test data, raw scores were first converted to scaled scores using the WAIS-III equivalents calculators (Wechsler, 1997b:184). The scaled scores were subsequently converted to WAIS-III national percentile rankings (Kaufman & Lichtenberger, 1999:145) which “show how well an individual has performed on... [a] test compared to others of the same age” (Loreman, Deppeler, & Harvey, 2005:54-5). Finally, these were aligned with qualitative descriptors that range from “extremely low... [through to] very superior” and describe a participants performance (Wechsler, 1997b:25). As mentioned earlier, Ogden (2001:2) warns that psychometric tests developed by “the white majority... [can lead] to labels of intellectual inferiority” adding that flexibility within the bounds of the assessment process need’s to be engaged until
culturally specific psychometric assessments are developed. In the case of this study, the participants’ raw scores, subsequently converted to scaled scores and then national percentile rankings, enable an initial point from which the remaining analysis could be conducted. More importantly, it allowed assessment to be carried out between the ‘active’ and ‘control’ participant groups instead of the standardised norms. This inter-group comparison as opposed to a contrast with ‘outsiders’, I would argue, has a better fit with the Vanua Research methodology.

The Statistical Package for the Social Sciences version 17 (SPSS) was utilised to analyse and compare the inter-group comparative data using a simple box plot, a group statistics t-test analysis and an independent-samples t-test (2-tailed inter-group comparison). The box plot shows the spread of the individual scores (Griffith, 2007:184; Pallant, 2009:75-7) whereas the group statistics t-test measures how big the difference is between the means of two groups – in this case the yaqona consumers and the non-drinkers. The independent-samples inter-group comparison t-test provides the critical figure for the purposes of this study, that being the ‘p-value’, also known as ‘probability’ or ‘significance’. Coolican (1999:327) states, “we cannot simply say [a situation exists,] we need a significance test to demonstrate to the research world... the probability of our... [situation] occurring”. The ‘p-value’ provides this and demonstrates occurrence probability (Pallant, 2007:103,232).

Finally, two-tailed analysis was used over single-tailed. This was chosen because two-tailed analysis measures the statistical significance between variables. For instance, the difference between the cognitive test scores of the ‘active’ and ‘control’ participants. Alternatively, single-tailed analysis only measures changes in the actual statistical significance – whether there is any change in the amount of difference that is found when the test results of the participants are compared (Pillemer, 1991:13,16; Kremelberg, 2011:123). Output data accuracy for SPSS is 99%. The results of the psychometric tests are presented and discussed in Chapter 8.

Although this study was carefully planned and designed, several limitations must be considered. These will now be discussed.

LIMITATIONS
First, my role as a participating interpreter potentially created a number of limitations. For instance, my presence at several research sites directly initiated yaqona drinking sessions. This may have resulted in an increase of drinking duration and volume, or encouraged some who may not have intended imbibing on that occasion to do so. Therefore my presence may have produced inaccuracies in the consumption surveys which collated data regarding average ingestion frequency or the purpose of selecting participants for cognitive tests. Such factors are extremely difficult to mitigate due to the aspects of hosting and obligation within the cultural ethos of vakaturaga. However, they do contribute to research limitations. Additionally the cultural ethos of vakaturaga prevented any replication of consumption times, volumes, or yaqona mix strengths across naturalistic environments in order to bring about standardisation. Singh (2004:159) also recognised these issues associated with standardisation in naturalistic settings, but my research was unable to address this and as such the results of cognitive testing should be interpreted with these considerations. Steady-state concentration also added a complicated element to the findings. That is, consumption (or lack of) over the days proceeding testing could not be mitigated or factored. Again, this could not be moderated because of cultural constraints, therefore limiting the generalisability of these results.

As a participating interpreter I regularly consumed yaqona in similar volumes and timeframes as my participants. This suggests that I too experienced impairments in processing speed whilst administering the cognitive tests and conducting interviews. Although precautions were taken to mitigate any effects such as – administering a prepared survey, digitally recording interviews using a structured interview format, postponing or cancelling interviews and/or psychometric tests when I felt my condition may have compromised administration standards, and analysing data once in the home environment – the potential for impacts to accuracy need to be acknowledged. Again, culture made it extremely difficult to surmount this issue as I could not decline or refuse yaqona consumption.
Consideration must also be given to the data obtained from the cognitive tests. Specifically, compliance with the Vanua Research framework necessitated some departure from standard administration procedures stipulated by the test creators. This included minor changes to the psychometric measures and their delivery to increase cultural compatibility. Further, the data was compared between the control and active groups rather than the standardised norms. This has the potential to limit the generalisability of the final results to the normative data and greater veracity will not be possible until the tests that measure the “Processing Speed Index” have been normed to the Fijian population (Groth-Marnat, 2003:150).

A third limitation arises out of the presentation of the research data. All interview responses, survey answers and the cognitive test data required interpretation. This potentially led to biased representation. Each of the 63 teachers surveyed provided their understanding of yaqona use in 15 schools. I added to this with personal observations relating to an additional three schools. Although the 18 schools visited were across a wide area of Fiji and were a mixture of urban, semi-urban and rural, collectively they may not be representative of all schools in Fiji and therefore the results are limited to these contexts and are not applicable to all schools in Fiji. In addition, the female participant numbers involved in the surveys and cognitive testing were vastly less than those of the males. The three females who participated in the cognitive tests were representative of those in the heavy yaqona consumption category (Aporosa, 2008:75). This limits specific statements being made concerning female yaqona consumption habits and also potentially skews the cognitive assessment results due to the heavy consumption habits of the female participants.

Finally, seasonality may have influenced yaqona consumption volumes during one of the research and testing periods (p.113). This prevents any definitive statements regarding use amounts as seasonality is believed to have elevated the consumption volumes of two-thirds of my participants.

CONCLUSION
This chapter has detailed the methods utilised to investigate the three research questions and the traditional/contemporary tension that has resulted from the use of yaqona in the education environment. Although these methods are in common use across a variety of research approaches, they were applied in a way which conforms with Nabobo-Baba’s (2006) notion of a Vanua Research methodology, and McKinnon’s (2008) “vision of a new kind of post development practice” (p.291).

The use of cognitive assessments as part of Vanua Research methodology and a post-development approach is believed to be a first. This embraces Gibson-Graham’s (2005:6) challenge of “venturing into a creative field in which the possibilities of reconfiguration and experimentation are linked to... a [new] mode of thinking and practice that is generative [and] experimental”.

A valuable aid to the methodology and research as a whole, I have argued, is my ‘depth of membership’ as a participating-interpreter. Being both an ‘insider’ and ‘outsider’ has offered a unique perspective; one of ‘knowing’ while being able to acquire distance to mitigate ‘doxic’ influence, another of cultural obligation and responsibilities, aspects that brought added challenge to the field-work and study write-up due to my own experiences of lomaloma ca. Although my struggles and realities offered the potential for self-experimentation and “n-of-one” research (Roberts, 2001:9), this will not be done. Instead, the study mostly utilises findings and the voices of those teachers and administrators at the coal-face of Fijian education to answer the three research questions and consider a way forward.

The following chapter is the first of the three results and discussion sections in which I investigate the first research question, ‘What are the yaqona consumption habits of Fijian teachers, and what role does culture play in this?’
CHAPTER 7
WHO IS DRINKING WHAT, HOW MUCH, AND WHY?

INTRODUCTION
The preceding chapter set out the methodological procedures used to gather the field research data. This
included details on the research participants. This data will be used to aid the aim of this present chapter
which is to answer the first research question: ‘What are the yaqona consumption habits of Fijian teachers,
and what role does culture play in this?’ A detailed analysis of the drinking habits of the active (yaqona-
consuming) participants will assist this. This examination reveals new data that both adds to and clarifies
earlier research presented in my Master’s study, which was summarised in Chapter 5. Moreover, it uncovers
several misconceptions on the part of iTaukei regarding how they perceive the consumption habits of their Fijian
peers. This prompts discussion on the potential causes of these misconceptions together with the role that
cultural expectations play in influencing such discourse. This is then followed by comment on an unexpected
finding revealed within the data on female yaqona consumption. The chapter concludes by discussing mixed-
ethnicity drinking and how the teaching profession, unlike the nation generally, tends to blur the lines of ethnic
segregation when it comes to yaqona drinking.

This chapter commences by presenting a breakdown of the participants who aided the answering of the first
research question.

WHO’S DRINKING WHAT AND HOW MUCH?
A breakdown of all 145 research participants together with the 18 schools visited during the field research
phases was presented in the previous chapter (see p.92-96). The yaqona consumption habits of a selected
number of these participants was recorded and, where possible, observed. Most of these participants were
also those who had met criteria for cognitive testing as discussed in the previous chapter (see p.104-105).
The remaining 109 (or 75%) of participants contributed to the research by supplying basic information (such
as local demography, suggested informants, etc.), being observed, and/or specific data gathered through
semi-structured interviews. The information gleaned from these 109 informants will be woven into upcoming
discussions where appropriate.

Table 7.1 presents a breakdown of the 18 ‘active’ (yaqona-consuming) participants selected for cognitive
assessment by gender, age, ethnicity and school environment (rural, semi-urban, urban). This information
was obtained from the survey questionnaire. Two iTaukei males, plus one iTaukei female and three Fijian male
test subjects, all aged between 25 and 29 years old, were chosen from each of the three different education
environments (rural, semi-urban, urban). In Chapter 5 I discussed how it is extremely rare for Fijian females
to consume yaqona, therefore they were not included in the participant group. Although Table 7.1 could
be criticised for lacking a number of specific details regarding the participants, this is deliberate as part of
maintaining anonymity.
The average age of participants for the iTaukei teachers from the rural education environments was 28.3 years old, whereas the average Fijian was almost three years younger at 25.6. In the semi-urban teaching environment, the average iTaukei was aged 26.3 and the Fijians just over a year older at 27.6 years old. 27 years of age was the average for iTaukei in the urban areas and 27.5 the average for Fijians. When the overall average age for both ethnicities was calculated, these groups are almost identical with iTaukei averaging 27.2 years old and Fijians 27 years.

**YAQONA CONSUMPTION AND KAVALACTONE LEVELS**

Table 7.1 also details the yaqona consumption hours for these participants, the estimated number of bilos they consumed, and the approximate milligrams (mgs) of kavalactones (the active ingredient within yaqona) believed to have been ingested by each of the active participants on the night prior to cognitive testing. The estimates regarding bilos consumed, together with kavalactone levels in the body, was calculated using data presented in Chapter 5 (p.77). Figure 7.1 provides a graphed representation of the consumption hours for these informants.
Two key findings stand out from Table 7.1 and Figure 7.1 and concern participants 1, 5 and 9. First, participants 1 and 9 (an iTaukei 29-year-old male teaching at a rural school and an iTaukei female, also aged 29, teaching at a semi-urban school) both consumed yaqona for the least numbers of hours (3.5) on the night prior to cognitive testing. This is estimated to be 21 bilos, equating to 5,586mgs of kavalactones. In contrast, participant 5 (a 26-year-old Fijian male teaching at a rural school) reportedly consumed for 12.5 hours on the night prior to cognitive testing. Assuming the full 12.5 hours were spent drinking, his consumption level equated to approximately 75 bilos and over 19,950mgs of kavalactones. As discussed in Chapter 5, pharmacologists recommend a maximum daily intake of 200mgs of kavalactones (Mediherb, 2004b:2; Mills & Bone, 2005:484,488). Therefore these figures suggest that the lowest consumers had exceeded this recommendation by 5,386mgs whereas the heaviest drinker surpassed this by 19,750mgs. Although the kavalactone ingestion levels of even the smallest drinkers may seem excessive to the uninformed, this level of consumption is quite common (p.81).

For greater understanding of the collective consumption habits of the participants on the night prior to cognitive testing, Table 7.2 and Figure 7.2 group the raw data from Table 7.1 and presents the mean averages by ethnicity and school categorisation. The Fijian participants teaching in the urban areas were the smallest consumers, averaging 4.6 hours and equating to an estimated 28 bilos and 7,448mgs of kavalactones. In contrast, the Fijian participants teaching in the rural locations were the heaviest drinkers, averaging 8.6 hours, 52 bilos and 13,832mgs of kavalactones on nights prior to testing.
Table 7.2
Mean yaqona consumption of ‘active’ participants by ethnicity and school categorisation on the night prior to cognitive testing.

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>School designation</th>
<th>Yaqona consumption previous night</th>
<th>Estimated bilo’s consumed</th>
<th>Estimated kavalactone ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>iTaukei</td>
<td>Rural</td>
<td>5.6</td>
<td>34</td>
<td>9,044mgs</td>
</tr>
<tr>
<td>Fijian</td>
<td>Rural</td>
<td>8.6</td>
<td>52</td>
<td>13,832mgs</td>
</tr>
<tr>
<td>Combined</td>
<td>Rural</td>
<td>7.1</td>
<td>43</td>
<td>11,438mgs</td>
</tr>
<tr>
<td>iTaukei</td>
<td>Semi-urban</td>
<td>5</td>
<td>30</td>
<td>7,980mgs</td>
</tr>
<tr>
<td>Fijian</td>
<td>Semi-urban</td>
<td>4.8</td>
<td>29</td>
<td>7,714mgs</td>
</tr>
<tr>
<td>Combined</td>
<td>Semi-urban</td>
<td>4.9</td>
<td>29.5</td>
<td>7,847mgs</td>
</tr>
<tr>
<td>iTaukei</td>
<td>Urban</td>
<td>6.6</td>
<td>39</td>
<td>10,374mgs</td>
</tr>
<tr>
<td>Fijian</td>
<td>Urban</td>
<td>4.6</td>
<td>28</td>
<td>7,448mgs</td>
</tr>
<tr>
<td>Combined</td>
<td>Urban</td>
<td>5.6</td>
<td>33.6</td>
<td>8,911mgs</td>
</tr>
</tbody>
</table>

Figure 7.2
Mean yaqona consumption hours by ethnicity and school categorisation of participant teachers on the night prior to cognitive testing.

When the combined averages for both ethnicities within each of the teaching environments are considered, rural participants are the heaviest consumers at 7.1 hours, followed by the urban informants at 5.6 hours and then those in the semi-urban areas at 4.9 hours. When the total consumption hours for all consumers is calculated, this reveals that on average the participants surveyed in this research consumed yaqona for 5.889 hours (5 hours, 53 minutes and 30 seconds) on the night prior to cognitive testing, a figure that will be rounded to six hours. This equates to an estimated 36 bilos and 9,576mgs of kavalactones, 9,376mgs or almost 32 times more than the pharmacologically recommended daily dose. In Chapter 5 (p.81) I explained that during my Masters research the average consumption duration per drinking session was three hours. That field research
was conducted in several phases in 2006. The consumption time period differences between 2006 and 2009—the field research period for this current study—presents a number of interesting themes.

**YAQONA CONSUMPTION INCONSISTENCIES BETWEEN 2006 AND 2009**

The first point of interest is the average consumption hours for all participants—six hours. Two possible reasons exist for the differential between the 2006 and 2009 research findings. First, the present study targeted participants in the 25–29 age range, whereas the previous study calculated consumption hours for participants aged 20–55 years old. As discussed in the Methodology chapter, consumers in the 25–29 age group tended to account for the majority of attendees at the sessions I attended. A reason for their high representation is believed to be due to their causavou (single/bachelor) status, a demographic who often have a greater level of social freedom due to the absence of spousal and/or parental responsibilities.

The second potential factor to explain this rise in consumption hours is seasonality. Approximately two-thirds of my participants were tested during November. This is a time when the school year winds down and most students sit exams. A number of teachers I spoke to felt this factor encouraged consumption, as teaching pressure had reduced considerably and allowed for more social time which included yaqona consumption (IQ008-11). Additionally, at several schools I visited teachers consumed yaqona while their pupils were sitting exams with the reason that this constituted an act of support (IQ012). Some of my participants had commenced consumption in the early afternoon and continued into the night. It also needs to be pointed out though that some of the Master’s field data had been collected during the mid-year examination period. Therefore some similarity potentially exists concerning 2006 and 2009 seasonality. Regardless, these same teachers were still required to be at work at 8am the following morning, a time when they were responsible for preparing their remaining students for exams and/or attending to end of year duties such as book collection, report writing, departmental stocktaking, resource accounting and clean-up duties. Admittedly though, these duties did not require the same degree of alertness.

**WHY ARE THEY DRINKING?**

**THE MYTH OF HIGHER ITAUKEI YAQONA CONSUMPTION**

The second interesting theme to arise out of Table 7.2 and Figure 7.2 was yaqona consumption habits by ethnicity. This highlighted two misconceptions, common to many of my research participants, that lead to anecdotal reports presented as fact and accepted as such. During hundreds of yaqona sessions I attended in Fiji over a 12-year period, I was frequently told, 1). that rural iTaukei consume more yaqona than urbanites of all ethnicities and 2). rural iTaukei teachers made similar assurances adding they also drank more than their rural Fijian counterparts. For example, a rurally situated male asserted, “We [iTaukei] drink more than Indians, all the time” (IQ013). Another stated, “see, yaqona is our traditional drink, so us [iTaukei] will always go to it more than the Indian” (IQ014). When comparing rural and urban consumption, an urban iTaukei informant commented, “I was at [a rurally isolated school] for 12 years… we had grog every day. Not like the city teachers, they only drink little.” (IQ015). An American Peace Corp volunteer, teaching at a rurally isolated school for approximately 14 months at the time of interview, held similar impressions—

> Us teachers drink every night here. But what else can we do, we can’t go to the movies or have a few beers? There is no other option. I was at a school in Namosi [prior to coming here] and as soon as the bell rings [to indicate the end of the school day], the teachers are out of there, on the bus, going to do what they want. Urban teachers drink grog, but they have other options. So we drink more [in the rural areas], and what we drink here is [mixed] more potent than the city teachers. (IQ016)

In another example, an urban iTaukei female stated categorically, “Grog is part of our culture so we drink for fun, social and culture, but Indians [Fijians] only do it for leisure. We always drink more.” (IQ017) In the minds of my iTaukei participants, such reports and beliefs ‘proved’ they consumed more of the indigenous substances than their Fijian peers. The lack of research targeting teacher yaqona consumption by ethnicity
even led me to present these anecdotal reports as fact in my Master’s study (Aporosa, 2008:77,85,106-7). Those earlier research findings were bolstered by an additional belief. Participants stated that rural iTaukei teachers consumed more than their urban counterparts because they (the ruralites) lacked extra-curricular activities and the opportunities widely available in the urban areas. This is a theme I will return to shortly. However, the fact that a lack of extra-curricular activities also had the potential to encourage heavy consumption among rural Fijian teachers was neither considered nor dismissed by iTaukei participants in that earlier study.

Table 7.2 and Figure 7.2 shed new light on these iTaukei beliefs and reveal the first of several misconceptions on the part of participants. In this latest study, the rural Fijian teacher participants were shown to consume just over a third more yaqona than their rural iTaukei peers. In the urban setting, iTaukei teachers may consume just over a quarter more than their urban Fijian counterparts, however they were shown to consume slightly more than their rural iTaukei peers. Finally, when the total consumption hours are calculated by ethnicity, this suggests that on average it is the Fijian teachers who consume more yaqona overall, approximately 30 minutes longer when compared with their iTaukei colleagues. These findings then call into question the beliefs of many iTaukei consumers, that they drink more yaqona than their Fijian counterparts.

Although the small number of participants in my study prohibits generalised statements regarding the consumption habits of Fijian and iTaukei teachers, these findings do reflect a national trend. The Fiji National Nutrition Survey (FNNS) (Schultz, Vatucawaqa & Tuivaga, 2007:1,180) reported that in a sample of 7,372 participants from all vocations, more Fijians consume yaqona on a daily basis than iTaukei (also see p.142). What then is believed to influence this iTaukei misconception? Tomlinson’s work assists as an introduction to this. In his theory of “perpetual lament”, Tomlinson (2004; also see 2009:121-3) discusses how feelings of indigenous loss and disempowerment are perpetually lamented at yaqona sessions. He explains how iTaukei “lament” the ‘old days’, a time when the ancestors consumed less than we do today, whilst simultaneously engaging in vigorous grog swiping of the indigenous substance. This in turn perpetuates their lamentations, which are asserted as fact. A similarity also exists between “perpetual lament” and iTaukei belief that they consume more than Fijians. Borrowing from Tomlinson, I have termed the creation of these beliefs ‘perpetual statements of inaccuracy’. Identity is believed to play a major part in creating these perpetual statements of inaccuracy.

Drawing on yaqona’s importance to identity formation (as discussed in Chapter 5) and combining this with perpetual statements of inaccuracy, this demonstrates that many iTaukei like to be seen and like to be known as people who regularly consume yaqona, as this creates a palpable demonstration that they ‘are’ iTaukei. This is clearly illustrated in the comment where the informant stated, “Grog is part of our culture so we drink [more than other ethnicities]” (IQ017). This statement sends a clear message that the consumption of the traditional substance also sets iTaukei apart: Fijian counterparts may drink the beverage, however because they are not ‘true’ iTaukei, they cannot possibly consume as much or as frequently as we do.

A second factor that encourages perpetual statements of inaccuracy is the practice of bole (grog fighting), an activity also linked to identity as discussed in Chapter 5 (p.76). This activity also has elements of masculinity woven into it. Becker (1995:50-1) discusses indigenous attitudes to physique, arguing that “Fijians [iTaukei] specifically associate ideal shape with physical characteristics suggesting strength or the ability to work hard, [which] necessitates eating large quantities of food”. She then contrasted this with the female physique and role. In summary, Becker’s discussion suggests a stereotype that ‘men are supposed to be big, work hard, eat and drink a lot, and actively pursue manly activities’ such as playing rugby, as opposed to engaging feminine activities like preparing meals. Additionally Tomlinson (2004:656) discusses how iTaukei pride is associated with human strength, especially the size, physique and strength of the indigenous ancestor warriors. By combining this ideology (bole, physique, physical strength, notions of masculinity and eating and drinking) with the discussion above that Fijians are not deemed to be ‘iTaukei – true Fijians capable of consuming as much or as frequently as we [aborigines] do’, this further explains reasoning behind the perpetual statements of inaccuracy. Put simply, iTaukei imagine they are stronger and more masculine than Fijians. Because yaqona drinking has its competitive aspect (bole), iTaukei would expect to ‘win’ in any comparison with Fijians because
they traditionally believe themselves to be bigger, stronger and more manly. This leads to the second myth to arise out of the findings.

THE MYTH OF HIGHER iTaukei Yaqona Consumption in Rural Areas

As previously mentioned, Table 7.2 and Figure 7.2 revealed a second misconception. This derives from the notion that a lack of extra-curricula activities in rural areas is a cause of high yaqona consumption. During my Master’s research, rural participants frequently commented that limited options regarding after-hours recreation, in comparison to urban areas, was a major contributor to high consumption among teachers (Aporosa, 2008:106-7). Limitations were cited as isolation, no roads, a lack of television reception and/or power, with the exception of a few hours per night in most areas. This issue was again stated as fact during the recent field research when an informant stated, “city teachers, they only drink little [compared with rural teachers] coz they can go to town, watch movies [etc.]” (IQ018). However, contrary to this and my earlier Master’s report, these latest findings (Table 7.2 and Figure 7.2) reveal that urban iTaukei are spending more time consuming yaqona by approximately one hour per night when compared with their rural iTaukei counterparts.

This disparity between the earlier research and present study again raises the question of why misconceptions concerning yaqona consumption are perpetuated by iTaukei teachers. I would suggest that in a similar manner to the discussion earlier, in which I linked such imaginings to invented traditions and the reinforcement of identity through perpetual statements of inaccuracy, a similarity also exists regarding this present theme. Brison (2007) aids this assertion when she contrasts Fiji’s perceived idyllic traditional/rural setting with that of the urban environment with its Westernisation, individualism and materialism. She states, “the ways Pacific people imagine ‘modernity’ is just as critical as the ways they invent tradition [and] sense of self” (p.95). By imagining urban Fiji as modern and developed, with roads, public transport, bars, restaurants and power at the flick of a switch, ruralites reinforce “romantic, ‘antimodern’ imaginings of tradition” within their rural environment which in turn “bolster[s] local pride and power” (Brison, 2007:xii). Further, Becker (1995) comments that perceived threats from Westernisation and the Fijian community has prompted “a popular movement, supported by the chiefly leaders, [encouraging a] return to indigenous custom” (p.15). She added that “in some ways, the mobilization of ethnic Fijian identity is a post-traditional movement that has emerged from the reflective awareness of the threatened integrity of Fijian [iTaukei] lifeways” (p.16). I will return again shortly to Brison and the theme of post-traditionalism, however given yaqona’s intrinsic link with tradition and indigenous practice, it stands to reason that iTaukei perceive and expect that they would have increased consumption levels within their traditional rural environment when compared with urbanites as this helps to reinforce notions of tradition and “sense of self” – in other words, identity.

I discussed this misconception of elevated rural consumption due to limited extra-curricular activity together with the link I had made to Brison’s work with academic, friend and fellow yaqona drinker Matt Tomlinson (2008), who reviewed Brison’s book. He suggested that part of her argument included the idea that iTaukei draw on selected themes and notions associated with ‘tradition’ and ‘modernity’ to suit personal biases and needs–

I would say the same happens with yaqona-drinking. Those who want to emphasize their reverence for tradition might emphasize their commitment to being at grog sessions; those who want to emphasize their appreciation of modernity might criticize everyone else for drinking and not getting work done. But what happens, practically, is that the two strands of discourse get mixed together, and people – the same people – will say both that kava drinking is a crucial traditional custom that must be valued and maintained and also that too many people drink too much. (email, 2010, April 16)

Again, Tomlinson highlights ideologies of “perpetual lament” and substantiates my argument that indigenous misconceptions are constructed to reinforce notions of tradition and identity.
Brison (2007) makes an interesting comment in the closing section of her introductory chapter that reinforces this current debate on misconceptions by iTaukei teachers. She suggests that as iTaukei attempt to maneuver an often confusing and contradictory path between traditional and modern systems they “author novel solutions that blur the distinctions between modernity and tradition… [and] in the process they make space for a variety of ways of being truly Fijian [iTaukei]” (p.14). This ‘making space’ then includes ‘authoring’ misconceptions that overinflate ideas regarding the consumption of their “cultural keystone species” in order to reinforce and solidify identity. Informant statements such as “grog is part of our culture… [therefore] we drink more” (IQ019) clearly illustrate this.

Admittedly this finding – that iTaukei in rural areas do not consume more than urbanites -- is based on a small sample of 18 participants. However, it is not really surprising. I have spent long periods in Fiji’s capital Suva and the smaller cities of Sigatoka, Nadi, Lautoka and Labasa. At any time during the working day I would be able to find a yqona session to join without difficulty, and have had multiple choices on venues to attend on any given night. In hindsight I believe I had simply brought into the notion that people consumed more in the rural areas as that was where I worked and consumed yqona nightly, simply blaming limited extra-curricula activity although I admit that if I had been in the urban area I would usually have consumed the indigenous substance in a similar manner. A final point is worth considering on this theme. Metropolitan areas in New Zealand offer vastly more after-hours opportunities when compared with the Fijian cities. However I can attest that long, vigorous iTaukei consumption sessions can be found in both Auckland and Hamilton on any night of the week. Reflecting on Becker’s comments above, this would suggest that such hearty New Zealand based yqona consumption is in part a post-traditional reaction motivated by “reflective awareness” – an attempt to retain and maintain cultural identity in the face of change and environmental dislocation.

CULTURAL INFLUENCE AND FIJIAN YAQONA CONSUMPTION

I have discussed the distinct link between iTaukei culture and the consumption of their “keystone species”. How then is culture an influence in Fijian consumption? This question was put to a number of Fijian informants. All were unanimous that yqona had no cultural significance to them as an ethnicity, although a number of practices that comprise iTaukei consumption have been adopted into Fijian drinking patterns (IQ020-23). A Fijian informant made a comment that encapsulated the beliefs of others. He stated–

Fijian [indicating iTaukei] grog drinking is about culture. But for us Indians, no, it’s mainly about fun and relaxation. There is no culture in our drinking. Yes, some, like myself, will observe some Fijian [Fijians] culture, like I never tip grog out or drink by myself55, but most [Fijians] no, they don’t care (IQ024).

Academic Brij Lal (2007) comments that although his ethnic peers consume “copious amounts” of yqona (p.22; also see Lal, 2011:98), they equally lack cultural etiquette and respect for the cultural keystone species, a practice he argues contrasts with iTaukei consumption.

As was discussed in the Methodology chapter, iTaukei consumption styles and protocol are extremely familiar to me (p.98-99). In order to gain an understanding of Fijian practices, I attended a number of drinking sessions with both teachers and community members of that ethnicity where I discussed this issue. Table 7.3 presents general practice differences in consumption between the two ethnicities. This will aid and give understanding to comparative discussions. It must be stressed though that these are typical differences which I observed and/or were advised of by Fijian informants. For example, I list next to ‘mixing receptacle’ (5th item, Table 7.3) the use of the tanoa for iTaukei consumers and the plastic basin for Fijians.

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55 For a further explanation on the reasons people do not drink by themselves or tip out yqona, see p.68 and Footnote 60.
This is ‘typical’ practice, although I have frequently attended iTaukei consumption where a tanoa was unavailable and a poi (or tanoa poi) was used, while on another occasion a plastic bucket was employed. However this tends to be the exception rather than the rule. On the other hand, I have never attended an iTaukei yaqona session where basic elements of protocol such as ‘starting’ the consumption with the appropriate declaration, cobo (clapping as a mark of respect) and serving order have been negated (Thomas, 1997:174-5; Aporosa, 2008:102). Additionally, at several Fijian schools elements of iTaukei practice were evident.

Table 7.3

Typical differences between iTaukei and Fijian yaqona consumption practice.

<table>
<thead>
<tr>
<th>Practice/observance</th>
<th>iTaukei</th>
<th>Fijian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imbuement</td>
<td>Sacred, reciprocal, medicinal</td>
<td>Relaxation/commodity</td>
</tr>
<tr>
<td>Planting/cultivation</td>
<td>Spiritual aspect/commodity</td>
<td>Commodity</td>
</tr>
<tr>
<td>Harvesting</td>
<td>First plant harvested presented as isevusevu to village chief or land owner</td>
<td>Harvest</td>
</tr>
<tr>
<td>Preferred portion of plant for consumption</td>
<td>Waka (lateral roots)</td>
<td>Lewena (basal stump)</td>
</tr>
<tr>
<td>Mixing receptacle</td>
<td>Tanoa</td>
<td>Plastic basin</td>
</tr>
<tr>
<td>Consumption commencement declaration</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Consumption purpose</td>
<td>Acknowledge hierarchy, welcome visitors, seeking assistance, healing, life events (birth, birthdays, milestones, death), initiating and completing projects, conflict resolution, facilitating meetings, socialising</td>
<td>Socialising</td>
</tr>
<tr>
<td>Formality</td>
<td>Culturally influenced processes dependent upon reason/purpose of consumption/presentation</td>
<td>None</td>
</tr>
<tr>
<td>Serving receptacle</td>
<td>Bilo</td>
<td>Piala/pyala (small steel bowl)</td>
</tr>
<tr>
<td>Serving interval</td>
<td>Dictated by the matanivanua (herald/spokesperson for chief/senior person present)</td>
<td>At discretion of individual consumers</td>
</tr>
<tr>
<td>Serving rate</td>
<td>Dictated by the matanivanua</td>
<td>At discretion of individual consumers</td>
</tr>
</tbody>
</table>

56 Poi (or tanoa poi) are plastic tanoa made from a fishing float (see Figure 7.4; Thomas, 1997:176,180). This practice reportedly started in Macuata, Vanua Levu, due to an abundance of floats which had washed ashore from offshore fishing boats. With the rise in cost of tanoa due to decreasing stocks of vesi (Fijian hardwood), poi are increasing in popularity. Some are beginning to appear with magimagi or sau (plaited coconut fibre rope) and buli (cowry shells) attached to the matanitanoa (‘the face of the tanoa’ – small triangular piece carved into the front of the tanoa giving the receptacle ‘direction’) to bring added cultural value to a contemporary representation of a traditional icon (see Figure 5.6). Yaqona mixing receptacles can be ranked under an importance hierarchy with tanoa clearly heading the classification closely followed by dari (tanoa made from lapita pottery), poi ranked third, a large plastic basin fourth, and a bucket in last position. It would be extremely rare for an iTaukei ceremony to use anything other than a tanoa and occasionally a dari.

57 Following the mixing of the yaqona, the session is typically ‘started’ with a semi-chanted declaration such as “Darama Saka ni yaqona”. This advises the Saka (‘Sir’/’sir’) who, depending on the person making the proclamation could be either the Vu (or ancestral gods) or Karisito (the Christian God) or the senior person present, that the session is ‘officially’ started. Similarly, the session is usually concluded with a semi-chanted declaration such as “maca Saka ni yaqona”: “Sir, the yaqona is finished”.

58 Arno (2005) wrote at length on cobo (pronounced ‘thombor’). He stated, “In Fijian society, cobo, a stylized form of clapping performed with cupped hands held crosswise to one another, is a pervasive element of public ritual performances, and it also takes place frequently in everyday private interaction... It has generally... an expression of respect in ordinary social contexts, and it can be looked at as part of the etiquette of polite interaction” (p.48) also used as an expression of apology (p.49). Arno suggested cobo is in essence “cultural currency... vital to the social construction of identity” (p.47).
Serving quantity  Dictated by server  At discretion of individual consumers

Seating  On ibe on floor (woven mat made of voivoi leaves), hierarchical seating arrangement, cross-legged on floor.  On plastic mat on floor or chair, no designated seating arrangement, not specified sitting position

Serving concomitants  Cobo (clapping on receipt of bilo and finish of each bilo), bole (competitive consumption)  Occasional competitive consumption associated with masculinity, drinking with right hand only

Behaviour during consumption  Vakaturaga  Influenced by host

Consumption completion declaration  Yes  No

Yaqona custodianship  Must not be left unattended  Can be left unattended

Pour out unwanted yaqona  No, all must be consumed  Yes

Consumption by gender  Men and women  Men only

(Source: Author).

Overall, most Fijian school principals stated that yaqona and the presentation of isevo sevu did not have a role in the official ‘culture’ of their schools. However, I did observe glimpses of this. For instance, I visited a semi-urban Fijian school at 7.45am in order to interview the Fijian principal. Upon arrival he produced a plastic basin, mixed the indigenous substance and then to my surprise presented (isen sevu) to me in vosa vakavakau.

It was clear from the presentation and language style, his observance of indigenous protocol and the time of the day that this was important to him. He stated that isevo sevu were always presented to visitors, preceded official functions and board and parent/teacher meetings held at the school (IOQ25). The principal asserted that isevo sevu comprised part of school protocol. This cultural form of presentation and reciprocation was also described as important to two other Fijian schools. A Fijian principal at one of these stated that this observance was “important to all Fijians” (IQ026). These examples, I suggest, hint at a link between Fijian identity and yaqona culture.

During a visit to a semi-urban school, I observed interior decorating which implies a union between Fijian identity and yaqona. On arrival at the school I accompanied the iTaukei principal to the student dining room which was being refurbished. On entering I was welcomed by a group of parents, mostly of iTaukei ethnicity, sitting around a tanoa consuming yaqona. They were discussing their day’s work and the agenda for the following while watching a parent and several Fijian students paint large colorful traditional icons on the dining

59 Yaqona in its mixed aqueous state is deemed to be a living entity (Turner, 1986:209; Tomlinson, 2004:669) and an ingestible manifestation of the vanua; a drinkable representation of the people, the land, culture and cultural practice (Tomlinson, 2009:11,112). For iTaukei to abandon their vanua is equivalent to deserting their identity. A similar distinction is made between the need to ‘accompany’ rather than ‘abandon’ or leave mixed yaqona unattended. Additionally, some assert that unaccompanied or ‘unguarded’ yaqona can be adulterated by malevolent spirits.

60 Turner (1986:209) reasons why pouring out yaqona is considered inappropriate for iTaukei. “In Fiji, the mana of kava can be used to contact the spirit world for evil and good. Another term for sorcery (drau ni kau) is soa yaqona; that is, ‘to pour yaqona’... one prepares the beverage and the other utters the curse while pouring [it] out”. The ‘pouring’ is a libation to give efficacy to the malevolent spirit. iTaukei believe these spirits are incapable of mixing their own yaqona however they require the indigenous substance for efficacy. Therefore, whether yaqona is poured for malicious intent or simply because excess has been mixed, iTaukei believe malevolent spirit/s are continually waiting for the pouring of the substance. Conversely Nabobo-Baba, et al. (2012:27) comment that “Our healthy communion with the spirit of the universe has been misinterpreted by outsiders for too long as worshipping the devil or vakatavoro (lit: worshipping the devil) or sorcery... [through] ceremonies like the kava/yaqona, tabua (whalestooth), and other items related to such rituals.” This “fear” they continue, has led to the dismissal of indigenous knowledge, a theme I discussed in Chapter 2 (p.21).

61 Mugler (2004:243), in a footnote, states “Although kava drinking among Indo-Fijians [indicating Fijians] is social and does not involve a formal ceremony... a sevusevu can of course be mentioned by Indo-Fijians in the context of a Fijian [iTaukei] ceremony, in which they can on occasion be participants. Indeed Indo-Fijians have been known to present a sevusevu in fluent Fijian [vosa vakavakau].”

62 Brison (2001:322) describes a similar incident during a iTaukei funeral in which a Fijian presented a sevusevu in vosa vakavakau. An “audience for Fijian (iTaukei) assertions of identity are Indo-Fijians. Occasionally sevusevu are used to define indigenous Fijian identity vis-a-vis Indo-Fijians. At a Fijian (iTaukei) funeral, for example, an Indo-Fijian (Fijian) man presented yaqona to the community of the deceased, following Fijian practice.”
room walls. These images included kiakavo (traditional fighting clubs), coconut palms, native birds and a tanoa.

The animated demeanour of the artists, which included continual stepping back to considering progress, gave the impression they were excited and involved in their work. I questioned the principal about the use of such icons in the student dining room. “See, these are all important to our culture, they show we are Fijian” (IQ027). I added that most of the parents in attendance, together with the students I had observed, appeared to be of Fijian ethnicity and that there were no icons of the traditional Fijian form. “Yes,” he responded, “99 percent of our students are Indian. See, they are still ‘Fijian’ and these [indicating the painted icons] are also part of their culture”. The comments of this iTaukei principal further add to my argument that a link exists between Fijian identity and yaqona.

It has been discussed that most Fijians believe their yaqona consumption style lacked culture and was “mainly about fun and relaxation” (IQ024). This would suggest then that yaqona has established itself within Fijian socio-cultural systems. Rajendra Prasad (2004:210-1) and Mugler (2004) concur with this, with the latter reporting that “kava drinking... has been adopted enthusiastically by Indo-Fijians as a social custom, to the extent that ‘grog’ drinking has become a central part of Indo-Fijian culture” (p.243). Mohit Prasad (2008:171), in a discussion principally focused on the Fijian ‘work ethic’, adds to this. He describes the Fijian concept of din maaro (meaning relaxing with others or ‘killing time’), socialisation which frequently includes the consumption of yaqona. Further, a large photograph that appeared in a 2008 edition of the Fiji Times added an interesting dimension to this theme (Ralogaivau, 2008:14). It shows a group of iTaukei taxi drivers seated cross-legged on an ibe (woven mat) before a tanoa. While the article itself makes no mention of yaqona, describing a strike by cabbies frustrated over Land Transport Authority action, the photograph makes a statement of its own. Although some may suggest the use of yaqona is little more than din maaro, it depicts Fijian solidarity centered around an iTaukei symbol of power and unity. In other words, by embracing this ‘borrowed symbol of identity’ and outworking what Hall (1990:235) terms “diaspora identity”, these Fijians are concurrently demonstrating yaqona as comprising an aspect of their own identity.

In October 2011 an insightful video was uploaded to YouTube. Fiji Indian Punjabi Gujarati Muslim Hindu Kava Song furthers this present discussion (Clique, 2011:n/a). The video comprises 50 still images such as the indenture period (Figure 7.3, photo 7,19,44), the British colonisation of India, Bollywood movie stars (photo 10,16), Indian sporting and political heroes, both the flags of India and Fiji, the Taj Mahal immediately followed by an iconic colonial building in Suva, all overlaid with a hip-hop song. The lyrics are a mix of Fiji Bät and English. What makes this notable is both the name of the video: the Fiji Indian... kava song and the inclusion of yaqona themes (photos 2 and 41).

![Figure 7.3](image_url)

Selection of photos from the Fiji Indian Punjabi Gujarati Muslim Hindu Kava Song (Source: Clique, 2011:YouTube video)
The clip begins with a conversation (in *Fiji Bät*) between two *Fijians* overlaid with photos 1 and 2 (0 seconds – 20 seconds):

<table>
<thead>
<tr>
<th>Fijian 1</th>
<th>Kitna julum din yaar, eh shamal, baalu pe lay ke chataai bichaaye deo.</th>
<th>What a beautiful day today, just get a mat [suggesting an <em>ibe</em> – woven mat used for yaqona drinking] and spread it on the beach.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fijian 2</td>
<td>Accha hum abhi jaata.</td>
<td>Yes, am going.</td>
</tr>
<tr>
<td>Fijian 1</td>
<td>Aree nagona ghor.</td>
<td>Hey, mix the <em>grog</em> (<em>yaqona</em>) man!</td>
</tr>
<tr>
<td>Fijian 2</td>
<td>Aree nagona ban gaye, hum challaye deii.</td>
<td>It’s already mixed, I’ll taki [serve] it now.</td>
</tr>
<tr>
<td>Fijian 1</td>
<td>Haa yaar.</td>
<td>Ok.</td>
</tr>
<tr>
<td>Fijian 2</td>
<td>Accha hum sabke thora chalaaye deii, kahenahi tum thora bataao, hum log ke ancestors ke uubar konchi beeta?</td>
<td>Ya, I’ll give everyone just a little (<em>yaqona</em>), so tell me what all happened to our ancestors in the olden days?</td>
</tr>
<tr>
<td>Fijian 1</td>
<td>Ee baat hay...</td>
<td>This is it...</td>
</tr>
</tbody>
</table>

The rap then commences and includes lyrics such as:

...picture this, a people been British’ed ripped,  
kicked out of India and shipped to Fiji,  
we be the hardest working refugees,  
where ever we go the economy goes... (2 min. 58sec. – 3 min.11sec).

Although other photos of *yaqona* are included together with references to the indigenous substance⁶³, photo 41 is especially interesting as it depicts a *Fijian* with a *tanoa* tattooed on his shoulder surrounded by *Pasifika* patterns. It could be said that the video, lyrics and conversation appear incongruous with an image of India followed by seemingly unrelated pictures of Fiji. However, in totality these suggest a cry from a group of young *Fijians* for connectedness and identity. This is sought first through images of oppression, strength, beauty, pride and displacement followed by re-establishment symbolised with *yaqona* as a representation of their *‘new’ vanua* – an icon and culture embraced to reflect aspects of their new cultural identity.

**REFLECTION**

This section started with comment that *yaqona* had no cultural significance to the *Fijian* ethnicity. However, when the various themes that followed are considered together, this appears not to be entirely the case. *Fijian* consumption has essentially been incorporated into social processes, although traditional forms of presentation and appreciation, together with iconology, have also been adopted. Collectively, these elements have contributed to *Fijian* identity, although admittedly not to the depth and influence applicable to *iTaukei*. Prasad (2009) makes an interesting comment concerning *din maaro* that reinforces my argument here. He argued that this form of relaxation, which can include *yaqona* consumption, is in itself a form of identity founded within the “Oceanic or Pacific Island [notion of]… free-spirited individuality” (p.172). Although many of the *yaqona* socio-cultural and *din maaro* themes above apply more to adult males, the use of *isevusevu* and iconology in schools demonstrates the union between the “cultural keystone substance” and *Fijian* identity. When combined with the literature presented in Chapter 4 on the importance of cultural identity to academic achievement, this would suggest *yaqona* culture has a level of influence (albeit small) upon *Fijian* academic achievement.

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⁶³ Another reference to *yaqona* within the video was, “*accha nagona, hum challaye [o grog, ya I’m doin it]... humlog ke baad Imran hay, to u know uu bhi maage pee ke aapan gatai thora bhijaaye le* (after us, is Imran, so let him have some to wet his throat…)” (2 min. – 2 min. 15 sec.).
WHAT DRIVES FIJIAN YAQONA CONSUMPTION?

Table 7.2 and Figure 7.2 shows that Fijians actively engage yaqona drinking for longer periods than their iTaukei counterparts. What then is believed to drive this consumption? As noted earlier, Prasad (2004:209-211), highly critical of Fijian yaqona use, discusses the consumption of the indigenous substance as a relatively new practice, comprising one of a number of major social and cultural changes that have enveloped his ethnicity starting in the 1970s 64. Voigt-Graf (2004:177) supports Prasad’s argument. In personal communication (April 25, 2010) she advised that during her research, which considered historical factors as influences on contemporary Fijian cultural and religious practice, she did not find a single reference to yaqona use by Fijians during or for many years following the indenture period (1879-1920).

My own field interviews revealed very little to aid the answering of what has motivated, or is driving Fijian yaqona consumption outside of culture adaptation in the use of isevusevu within the school environment and as a mechanism of “relaxing, a way for us to get together” (IQ028). The literature also fails to provide a specific answer to this question, although Prasad’s (2004) comment that yaqona is a relaxant that induces socialisation potentially offers insight to this theme. The 1970s, he added, was a time of “cultural meltdown” for Fijians (p.208). Changes to the roles of women, marriage and religion (which formally restrained the use of intoxicants), together with the influences of Westernisation and the media, and the focus on education and vocational achievement, all conspired to alter traditional forms of socialization (p.208-9). Further, Prasad suggested that this had a marked impact on collegial forms of discourse in which discussion no longer “nourished their minds nor enriched their souls” (p.208). Instead “gossip… and mundane matters [became the norm]. The fuel to drive these animated discussions came from kava… consumed in copious quantities” (p.210). Considering yaqona’s soothing anxiolytic properties, known to ease “emotional [and] psychological… impairment” (Prasad, 2004:98; also see p.79), new challenges during the 1970s offer reasoning for the adoption of yaqona use, an indigenous substance that offered both a soothing chemical aid (Beyer, 2007:4) and an environmental setting which helped Fijians relax and escape some of the upheavals of cultural disruption (see Appendix T).

Challenges since this period have potentially continued to motivate the use of yaqona and solidify its presence within Fijian social systems. Examples of these challenges include the uncertainties and anxiety that have resulted from living and farming on iTaukei land together with insecure and fluctuating leases arrangements (Voigt-Graf, 2004:180). Further, there was racial division propagated by the iTaukei Movement that motivated Rabuka’s military coup of 1987 and led to a new 1990 Constitution which “instituted a system of apartheid which deliberately marginalised Indians” (Robertson & Sutherland, 2001:81; also see Ratuva, 2002:151-4; Prasad, 2004:208,212-14).

To give a little more traction to this theory, it is worth considering the potential use of yaqona by other ethnicities as part of coping. I have occasionally heard iTaukei, who have recently shifted from rural isolation to urban areas within Fiji or emigrated to New Zealand, joke that yaqona and familiar systems of socialisation have aided in their adjustment. That ‘joking’ is in reality a camouflage under-laid with seriousness. Additionally, I have Pasifika friends with stressors such as struggling business ventures, university or domestic pressures, and remittance expectations and obligation, who freely acknowledge that yaqona comprises a key coping mechanism for them 65. Therefore, this therapeutic social union as an aid to coping could explain one of several mechanisms that have influenced Fijian consumption. Further, Fijian use levels surpassing iTaukei could be explained as a combination of use as part of socio-cultural custom (Mugler, 2004:243) and other encouragers.

There are four additional factors believed to promote Fijian yaqona consumption. The first is the price of alcohol – a 40oz (1.2 litre) bottle of locally produced Bounty Rum costs the equivalent of a half week’s wages, whereas yaqona is a fraction of this price. Therefore the substance is naturally more attractive as an aid to socialisation.

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64 During the final editing stages of this publication, a reference was located that discusses indenture period yaqona use by Fijians. This is presented in Appendix T (p.366).

65 McNaughton (2000:19) discusses the use of anxiolytics and self-medication as part of stress coping within an edited text on “Anxiety… Substance Use… [and] Comorbidity”. He argues that anxiety-inducing “life events can impact on the settings of biological systems… can alter, adversely… life events… creating extended feedback loops supporting substance …use” as part of coping.
Second, Prasad (2004:94,210) explains that traditionally Fijian socialisation has involved a great deal of discourse where people sat together with occasional singing and dancing for the entertainment of others. This is a social environment (inclusive of sitting, talking and discussing) that lends itself nicely to yaqona consumption, a system that mirrors aspects of iTaukei practice. Third, although the Fijian yaqona consumption rate, pace and quantity is often regulated by the individual (as opposed to a matanivanua in the iTaukei case, see Table 7.3), there are nevertheless occasions when competitive consumption is engaged. This however tends to be different to bole, the iTaukei competitive drinking highly influenced by cultural factors (see p.76-77): “We Indians have some small competitive drinking, but not like the Fijians [indicating iTaukei]”, commented an informant (IQ029). Another elaborated on this stating—

If somebody tells a good story, and you really like the story, we say, ‘okay, one big one [bilo] for him’. Like a reward. And if somebody comes late, we will say, ‘one big one for him’ because he was missing some time. But not like the Fijian [iTaukei] style, they try to kill each other (IQ030).

Such comment suggests a form of bole within this ethnicity, which then adds to Fijian yaqona consumption levels. The final driver promoting and encouraging Fijian drinking is their practice of consuming yaqona throughout the working day as opposed to defined settings. This was something I observed at a semi-urban school where Fijian labourers consumed the substance throughout their working day (see Figure 7.4). This is reportedly a common practice among sugar-cane cutters, who use the substance as a “refreshing drink” (IQ031). Informants also reported that it is relatively common for Fijians working in the agricultural and labouring sectors to consume throughout the day (IQ032-34). Another informant made a comment that explains this practice—

Indians do not drink like Fijian’s [referring to iTaukei]. They start earlier, some start early in the day and drink all day when they at work, but they finished early, like 9 o’clock [pm]. We do not go late like the Fijians. Fijians usually drink in big amounts and usually only in the afternoons and evenings. But us Indians, we usually drink more often, but in smaller amounts during the day (IQ035).

These insights offer potential reasons for elevated Fijian yaqona consumption patterns when compared with their ethnic counterparts. Additionally, while these motivators cannot be attributed purely to traditional cultural expressions – with their use origins based upon thousands of years of indigenous practice – in the manner of iTaukei, they nevertheless equate to socio-cultural pronouncement. Additionally, this then creates a union between yaqona and Fijian identity and therefore a link between Fijian academic achievement and the yaqona culture. Admittedly though, this yaqona socio-cultural identity argument loses some traction when adult Fijian women are factored.

Figure 7.4
Fijian school labourers consuming yaqona from a poi (see footnote 56 for more detail) and using piala’s (steel bilo) while working.
(Source: Author)
YAQONA CONSUMPTION AND GENDER

Most Fijian females, with the exception of a few of the elderly who use the substance for medicinal purposes (IQ036,037), rarely consume the indigenous substance. A teacher participant was questioned regarding this and stated, “our religion [Hindi] does not allow it”, although this same informant did say that it was common for younger Fijian women to consume alcohol (IQ038). Further, Fijian women do not sit with men while they are consuming the substance, therefore divorcing themselves from yaqona socio-cultural practices. While it is not standard practice for iTaukei women to consume yaqona directly (as in sitting immediately) with male peers, it is also not uncommon. This type of mixed-gender consumption comprised approximately 10% of all sessions I have attended in school settings. Additionally, iTaukei females are also known to engage in women-only sessions although again, this is not standard practice. The field research did however highlight an unexpected finding regarding iTaukei female consumption, again in the form of a misconception. This resulted from analysis of consumption patterns by gender on the night prior to cognitive testing.

Figure 7.5 illustrates that the mean average consumption hours of all male participants on the night prior to testing was 5.8 hours whereas for the female participants it was 6. As a reminder, these females were all iTaukei due to the non-consumption of yaqona by Fijian women who were therefore excluded from the sample and cognitive testing (p.104). In Chapter 5 (see p.74) it was discussed that the consumption of yaqona is predominantly a male-orientated activity, although findings from the FNNS (Schultz, Vatucawaqa & Tuivaga, 2007:1,180) survey report an increase in iTaukei female consumption of 21.5% when compared with 1993 figures.

Due to the small numbers of females in my survey it is impossible to make any definitive statements regarding the disparity and slightly elevated consumption level when compared with the male consumers of both ethnicities. However, a possible explanation could be drawn from my Master’s study. In this study the yaqona consumption habits of 21 participants – seven females and ten males – were recorded over a seven-day period. The results enabled these participants to be categorised as non, light and heavy drinkers (Aporosa, 2008:25,72-3). When these categorisations are compared with the female consumption hours in this present study, it would suggest that these latest female participants fall within the heavy consumption grouping. Therefore, it is possible that the female participants I chose as part of my latest group may simply be a reflection of the heavy
female *yaqona* consuming demographic rather than representative of female consumers nationally. Further, this may have skewed my results and given an incorrect impression that females generally are consuming more than males (see Limitations).

In the final section on the *yaqona* consumption habits of teachers and the role of culture, inter-ethnic drinking will be addressed.

**YAQONA: SOCIAL LUBRICANT WITH ETHNIC BOUNDARIES**

It is rare for *iTaukei* and *Fijians* to actively pursue combined drinking sessions of a purely social nature. The long-standing tensions between the two ethnicities as discussed by academics (Robertson & Sutherland, 2001:78-81; Ratuva, 2002:151-4; Srebrnik, 2008:91), influence consumption segregation. This is not limited to the Fiji Islands context, but is also applicable to Hamilton, New Zealand. For a number of years attempts were made for both communities to combine in order to celebrate their annual Fiji Day, which marks independence from colonial rule. This almost materialised in 2009, although a last-minute disagreement over a minor incident caused separate events and some lingering frustrations as one of the parties was forced to find a new venue at short notice. In October 2010 the two ethnicities did come together to celebrate the occasion, and although these groups shared the same venue and performance stage, in most cases (from my perspective), they did not share each other’s inter-relational space.

However, an exception to this can be found in the teaching arena. In the past 12 years I have noted a blurring of ethnic boundaries at *yaqona* sessions. This is especially the case when teachers of both ethnicities live together in school compounds (at boarding schools, for instance) or have limited socialisation opportunities with their own ethnicity due to factors such as rural isolation. In these cases, the minority ethnicity tends to adopt the consumption practices of the majority culture. In an illustration of this, a *Fijian* informant stated, “some of those Indians in the rural areas,... they live with the Fijians [indicating *iTaukei*]... so they follow the Fijian way” (IQ039). I was therefore quite surprised when returning to a school in Lautoka township one afternoon during my field research to see a *iTaukei* and a *Fijian* sitting together on the road-side in front of their sugarcane transport trucks consuming *yaqona* (see Figure 7.6). I approached them and sat and discussed their unusual allegiance. They acknowledged that this was uncommon, although justified it due to being “workmates” — a key ingredient that blurs the lines between rurally isolated *yaqona* consuming teachers as discussed above, and a theme I will return to in Chapter 9 (p.151).

**CONCLUSION**

The aim of this chapter was to answer the first of the three research questions, ‘What are the *yaqona* consumption habits of Fijian teachers, and what role does culture play in this?’ In answering this, the field data yielded a number of unexpected results which in turn highlighted several misconceptions. Firstly, the participants were shown to drink on average for six hours on nights prior to teaching in the classroom the following morning. This is double the consumption time of the participants surveyed in my earlier Master’s study. A drinking period of six hours equates to an estimated 36 bilos and 9,576mgs of kavalactones, almost 32 times greater than the pharmacologically recommended daily dose. Additionally, while the rural *iTaukei* informants in the earlier study were adamant they consumed more of their “cultural keystone species” than both their rural *Fijian* counterparts and *iTaukei* urban dwellers, this does not appear to be the case. My most recent data suggests that rural *Fijian* teachers are drinking significantly more than *iTaukei* in all teaching environments, whereas it is the urban *iTaukei* who consume more than their rural peers of the same ethnicity.

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66 Tavola [1991:52] explains that the racial tensions following the 1987 coup d’etat saw incidences of *iTaukei* and *Fijian* teacher “using different staff rooms and in extreme cases of teachers of one race refusing to teach children of another race”.

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DOCTORAL THESIS

Who is Drinking What, How Much, and Why?

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The question was asked why iTaukei, and especially those living in the rural area, emphatically believe they lead in yaqona consumption. Essentially this is believed to be based within concepts of identity and what was termed perpetual statements of inaccuracy. By combining discussion in Chapter 5, which explained yaqona as an ingestible manifestation and emblem of iTaukei identity together with Tomlinson’s (2004:565,662-4; 2009:121-3) theory of “perpetual lament” (above), this suggested that although iTaukei may drink less than their Fijian peers, they nevertheless sincerely believe the opposite. This is because yaqona is deemed to be their “cultural keystone species” and an element that demonstrates, reinforces and solidifies their indigeneity as the traditional inhabitants of the land. Additionally, physique, manliness and competitiveness are all aspects that inform iTaukei identity, therefore they presume unquestioningly that they would win, and expect to consume more of their indigenous substance, when compared with Fijians. Finally, for iTaukei, the rural area is considered traditional in contrast to the urban environment. Through post-traditional imaginings the rural environment has become both a physical and conscious escape for iTaukei from perceived threats of modernity and Westernisation. Rural iTaukei therefore imagine increased yaqona consumption in the rural area when compared with the urban environment as this solidifies notions of traditionalism and adds to the “sense of self” and identity (p.115). These findings reinforce the discussion linking the “cultural keystone species” with iTaukei identity formation.

The yaqona/identity union is not isolated to iTaukei. By drawing on literature and ethnographic comment, yaqona appears to also comprise an aspect of Fijian identity, one that is both increasing and solidifying. Although clear differences are obvious between the consumption styles of both ethnicities (see Table 7.3), yaqona nevertheless comprises both Fijian socio-culture and borrowed traditional expression as the indigenous substance is utilised in some Fijian schools as ise vusevu.

An additional parallel was drawn between increased Fijian and iTaukei yaqona use due to perceived uncertainty. In the case of Fijians, cultural change and instability, contrasting political opinion with iTaukei and land loss, were cited as reasons for increased yaqona consumption. Similarities were evident among iTaukei who perceived modernity and increased Fijian power as threats to their life-ways and identity which in turn has led to greater levels of yaqona drinking. Although segregation and feelings of disempowerment were identified.
as increasing consumption levels for both ethnicities, *yaqona* was also seen as a uniting factor for these two groups within the teaching environment. Situations were cited in which *yaqona* broke down segregation, encouraging teachers to freely socialise and consume together, with the majority ethnicity influencing the cultural tone at consumption sessions.

A final unexpected outcome from the data was related to consumption volumes by gender. Female *iTaukei* were shown to ingest more on average than their male counterparts. Though the sample size was small (therefore preventing generalised statements), this does reflect findings within the *FNNS* which shows a rise in female *yaqona* consumption rates.

In summary, the findings presented in this chapter greatly aid in answering the first research question. First it was asked, what is the *yaqona* consumption habits of teachers in Fiji? *Fijian* teachers, especially those working in the rural area, are shown to consume significantly more than *iTaukei* in all teaching environments. Further, as discussed above, teachers of both ethnicities are believed to consume on average for six hours prior on nights before teaching. Second, the remaining portion of the research question asked, what role does culture play in this *yaqona* consumption? Culture undoubtedly plays a critical role for both ethnicities in promoting hours spent and volumes consumed at drinking sessions. Although identity expression and solidification was the primary factor in *iTaukei* use, aspects related to identity re-formation through *yaqona* was also evident for *Fijians*. Finally, political uncertainty and disempowerment were argued to increase consumption volumes for both ethnicities.

The following chapter will investigate the second research question. This asks, ‘Does *yaqona* impact teacher cognition, sickness and absenteeism and if so, what effect does this have on education delivery?’
CHAPTER EIGHT

Yaqona, Cognition and Absenteeism

INTRODUCTION

The aim of this chapter is to answer the second research question which asks, ‘Does yaqona impact teacher cognition, sickness and absenteeism and if so, what effect does this have on education delivery?’ This is an important question in light of my Master’s research, summarised in Chapter 5. It was explained that the teachers in that study reported consuming yaqona for an average of three hours on nights prior to teaching. This amounted to an estimated 18 bilos and 4,446mg of kavalactones, or 14 times the pharmacologically recommended daily dose. Further, many of these participants reported these volumes as causing lomaloma ca, or a yaqona hangover that disrupted their ability to teach the following morning, effects that could take up to two days to subside (p.82-83). Additionally, over the past 10 years anecdotal comment has frequently appeared in the Fijian media espousing concerns that post-yaqona effects are negatively impacting on productivity (p.80).

A recent comment in the Fiji Times not only illustrates this concern but for the first time recommended a consumption amount other than that prescribed by pharmacologists. Dr. Moese Salusalu, a public health lecturer from the Fiji School of Medicine – who at the time was speaking at a two-day healthcare workshop – stated that from personal “experience... more than five... 100 millilitre bowls, is too much for a day” (Panapasa, 2010a:2; also see 2010b:3). A number of yaqona consumers suggested to me that Salusalu’s comment that five bilos was “too much” was ridiculous on the basis that this amount was miniscule. Similarly, denials concerning the possibility of lomaloma ca and negative effects from the use of the indigenous substance are commonplace. Such opposition can be staunch, voiced by yaqona consumers from all spheres of Fijian society, with comments such as “you feel fresh the next morning” being cliché (p.78). In the previous chapter, data collected from recent field research reported an increase in the average teacher yaqona consumption from three hours to six hours on nights prior to teaching. This is believed to equate to approximately 36 bilos and 9,576mgs of kavalactones – almost 32 times the pharmacological recommendation and almost eight times greater than Salusalu’s suggested daily intake volume.

Overall, these assertions and counterclaims have led to a great deal of subjectivity and commentary based on preference regarding acceptable consumption volumes and actual impacts on functionality post-yaqona drinking. In an attempt to further verify the ethnographic data, this chapter also presents the findings from cognitive tests administered to yaqona consuming and non-drinking teacher participants as they enter the classroom the morning. This is believed to be the first time this type of investigation has been undertaken on consumption levels at non-pharmacologically recommended doses. Previously post-development researchers have not used quantitative methods (p.108). As I have argued in Chapter 6, my utilisation of these psychometrics is culturally compliant and internally focused, while making a genuine contribution to post-development practice (p.102). The cognitive test findings will be combined with new ethnographic comment on the themes of lomaloma ca, absenteeism and presenteeism allowing both an updated understanding on the effects of post-yaqona consumption and adding to discussion on what effect this has on education delivery.

Before presenting the results of these tests, it is first necessary to briefly describe the two groups who made up the sample and participated in the cognitive assessments.

PARTICIPANT DATA

As a reminder, a total of 18 schools were visited during the field research phases. 82 of the 145 research participants came from these schools. From this group, 36 were selected following an interview and questionnaire process and were split into two groups of 18, one comprising ‘active’ (yaqona consumers) and the second consisting of ‘control’ (non-yaqona drinking) participants. Table 7.1 presented a breakdown by gender, ethnicity and school designation (rural, semi-urban, urban) of the 18 ‘active’ participants together with...
their consumption habits on the night prior to cognitive testing; Table 8.1 presents a breakdown of the ‘control’ participants, a group that mirrors the gender, ethnicity and school designation of their yaqona consuming peers.

Table 8.1
Breakdown of the ‘control’ participants (non-yaqona consumers)

<table>
<thead>
<tr>
<th>Participant</th>
<th>Sex</th>
<th>Age</th>
<th>Ethnicity</th>
<th>School designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>25</td>
<td>iTaukei</td>
<td>Rural</td>
</tr>
<tr>
<td>2</td>
<td>M</td>
<td>26</td>
<td>iTaukei</td>
<td>Rural</td>
</tr>
<tr>
<td>3</td>
<td>F</td>
<td>26</td>
<td>iTaukei</td>
<td>Rural</td>
</tr>
<tr>
<td>4</td>
<td>M</td>
<td>28</td>
<td>Fijian</td>
<td>Rural</td>
</tr>
<tr>
<td>5</td>
<td>M</td>
<td>27</td>
<td>Fijian</td>
<td>Rural</td>
</tr>
<tr>
<td>6</td>
<td>M</td>
<td>26</td>
<td>Fijian</td>
<td>Rural</td>
</tr>
<tr>
<td>7</td>
<td>M</td>
<td>29</td>
<td>iTaukei</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>8</td>
<td>M</td>
<td>28</td>
<td>iTaukei</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>9</td>
<td>F</td>
<td>29</td>
<td>iTaukei</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>10</td>
<td>M</td>
<td>25</td>
<td>Fijian</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>11</td>
<td>M</td>
<td>25</td>
<td>Fijian</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>12</td>
<td>M</td>
<td>26</td>
<td>Fijian</td>
<td>Semi-urban</td>
</tr>
<tr>
<td>13</td>
<td>M</td>
<td>27</td>
<td>iTaukei</td>
<td>Urban</td>
</tr>
<tr>
<td>14</td>
<td>M</td>
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<td>iTaukei</td>
<td>Urban</td>
</tr>
<tr>
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<td>F</td>
<td>25</td>
<td>iTaukei</td>
<td>Urban</td>
</tr>
<tr>
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<td>29</td>
<td>Fijian</td>
<td>Urban</td>
</tr>
<tr>
<td>17</td>
<td>M</td>
<td>29</td>
<td>Fijian</td>
<td>Urban</td>
</tr>
<tr>
<td>18</td>
<td>M</td>
<td>25</td>
<td>Fijian</td>
<td>Urban</td>
</tr>
</tbody>
</table>

The overall average age for both ethnicities within the ‘control’ group was calculated. The participants are almost identical with iTaukei averaging 26.7 years old and Fijians 26.6 years. When the average ages for all ‘control’ and ‘active’ participants are compared – 26.7 and 27.1 respectively – the ‘active’ participants are approximately six months older than their ‘control’ counterparts. This differential is negligible and will not impact the findings. Both the ‘control’ and ‘active’ participants were cognitively assessed just prior to entering the classroom in the morning to teach. The results will be discussed following a brief reminder of the make-up of the tests. This will aid in answering the first part of the second research question, does yaqona impact on teacher cognition?

COGNITIVE TESTS
In the Methodology chapter the mechanics of the psychometric assessments, the Digit-Span and Digit Symbol-Coding subtests were explained together with the reasons for their choice. As a reminder, the Digit-Span subtest (Appendix M) measures working memory, specifically short-term information retention and association (Tesche & Karhu, 2000:919), whereas the Digit Symbol-Coding subtest (Appendix L) measures the processing speed of basic everyday information (Zhu, Weiss, Prifitera, et al., 2004:61). Both subtests were administered to the participants at a time that reflected entering the classroom in the morning to begin teaching. The tests produced a raw score which was analysed using the WAIS-III equivalents calculator. This in turn provided a scaled score that was matched with a national percentile ranking and aligned with a qualitative description (see p.106-107). Appendix O and P provide a complete breakdown of the Digit-Span and Digit Symbol-Coding subtest results for each of the ‘control’ and ‘active’ participants respectively with the averages from those tables synthesised within Table 8.2 and 8.3.
Table 8.2
Average Digit-Span subtest scores for the ‘control’ (non-
yaqona consuming) and ‘active’ (yaqona drinking) participants.

<table>
<thead>
<tr>
<th>Participant group</th>
<th>Raw score</th>
<th>Scaled score</th>
<th>National percentile ranking</th>
<th>Qualitative description</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘Control’</td>
<td>16.6</td>
<td>10</td>
<td>50</td>
<td>Average</td>
</tr>
<tr>
<td>‘Active’</td>
<td>16.2</td>
<td>9</td>
<td>37</td>
<td>Average</td>
</tr>
</tbody>
</table>

DIGIT-SPAN SUBTEST

Table 8.2 shows that the 18 ‘control’ participants, when assessed using the Digit-Span subtest, collectively achieved an average raw score of 16.6. This raw score converted to a scaled score of 10. The scaled score for this group was aligned with a WAIS-III multi-ethnic national percentile ranking of 50 and a qualitative descriptor of ‘average’. This 50-ranked national percentile suggests that on average, the ‘control’ participants assessed by the Digit-Span subtest did as well as, or better than, 50% of their aged peers in the standardised sample (Loreman, Deppeler, & Harvey, 2005:54-5). This position is clearer when viewed under a normal bell curve (see Figure 8.1).

Table 8.2 also shows a raw score of 16.2 for the 18 ‘active’ participants assessed with the same psychometric measure. When the raw score was converted using the WAIS-III conversion tables, which provided a scaled score of 9, a national percentile ranking of 37, and a qualitative descriptor of ‘average’. Figure 8.1 shows the positioning of these scores under the normal bell curve illustrating that collectively the ‘active’ participants achieved a score similar to 34.13% of the standardised norm. When compared with this assimilated norm, the score of the yaqona consuming participants is within the ‘average’ qualitative descriptor range, albeit in the lower sphere. However, what is important in the case of this research is not the comparison with the standardised norm, but rather the contrast between the ‘active’ and ‘control’ groups, a factor that will be discussed at length following the presentation of the Digit Symbol-Coding subtest data.

Figure 8.1
Digit-Span subtest score alignment for the ‘control’ (non-yaqona consuming) and ‘active’ (yaqona drinking) participants when compared with the standardised norms under a normal bell curve.
(Source: Condensed and modified from Wechsler, 1997b:25,58; Kaufman & Lichtenberger, 1999:145; Groth-Marnat, 2003:142.)
**DIGIT SYMBOL-CODING SUBTEST**

Table 8.3 shows that the average raw score for all 18 ‘control’ participants when assessed using the second psychometric measure, the Digit Symbol-Coding subtest. This was 66.6, whereas the score for the ‘active’ participants was 55.3. When converted using the WAIS-III tables, this equated to a scale score of 8 (‘control’) and 6 (‘active’) and a national percentile ranking of 25 and 9 respectively. Figure 8.2 illustrates the positions of the ‘active’ and ‘control’ participants under a normal bell curve.

**Table 8.3**

<table>
<thead>
<tr>
<th>Participant group</th>
<th>Digit Symbol-Coding subtest</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Raw score</td>
<td>Scaled score</td>
</tr>
<tr>
<td>'Control'</td>
<td>66.6</td>
<td>8</td>
</tr>
<tr>
<td>'Active'</td>
<td>55.3</td>
<td>6</td>
</tr>
</tbody>
</table>

Figure 8.2 shows that the collective average scores for the ‘control’ participants, when compared with the standardised norms, allocates them a ‘low average’ qualitative descriptor, although it still ranks them alongside 34.13% of their standardised peers when they were assessed using the Digit Symbol-Coding subtest. In the case of the ‘active’ participants, they were allocated a ‘borderline’ descriptor and ranked within one standard deviation of the mean together with 13.59% of their aged peers. The scores of the ‘active’ participants when assessed with the Digit-Span and Digit Symbol-Coding subtests will be discussed shortly. However, the question that requires an answer at this stage is, what could be influencing the disparity between the scores of the ‘control’ participants? This group compared favourably with their standardised peers when assessed with the Digit-Span subtest, whereas they compared rather differently when assessed with the Digit Symbol-Coding subtest. Ogden (2001) potentially offers an explanation for this difference.
THE INFLUENCE OF “CULTURAL KNOWLEDGE” ON ‘CONTROL’ SCORES
In the Methodology Chapter I discussed at length both critical and supportive literature regarding the use of standardised norms to assess ethnic minorities. Ogden (2001), a critic, makes a valuable comment concerning test score disparity, standardised norms and test participants–

When one population consistently scores below another population, it is likely that the tests are to some degree measuring ‘cultural’ knowledge specific to the higher-scoring population (usually the mainstream majority). Often the variables of race and education overlap. The minority group usually has lower educational qualifications, arguably for many reasons including poor school attendance due to culturally-inappropriate teaching styles, poverty, and institutional racism. Much cultural knowledge is imparted through the education system; both ‘facts’ and processes (e.g. comfort with written test-taking) (p.3).

Ogden’s comment has direct applicability to Fiji and my research participants, considering Fiji’s socio-cultural and economic environment. Fiji is a considered a developing nation struggling with issues of poverty, unemployment, low GDP growth, limited productive resources and an education system built on a First World model in which students and teachers often struggle to cope due to a variety of cultural, institutional, resource and language deficiencies (Subramani, 2000:9; Global Investment & Business Center, 2011:56-7). It is likely then that these socio-cultural and economic environmental factors negatively impacted upon the processing speed of the ‘control’ participants (as measured by the Digit Symbol-Coding subtest), whereas cognitive aspects associated with working memory are not affected to the same degree. An investigation of this anomaly is a study in itself and one that will not be pursued here. Rather, Ogden (2001) follows her quote above by acknowledging that culturally specific psychometric assessments do not currently exist that allow for the mitigation of such extraneous factors in test results and suggested that test administrators seek flexible processes in order to minimise hegemonic “discrimination (p.2),... cultural insensitivity... [and] power imbalance” (p.4) so as to allow greater test score applicability.

The use of the WAIS-III conversion tables together with the aspects that make up Figures 8.1 and 8.2 (which are based upon a standardised norms), have enabled the basic interpretation of raw scores and the presentation of this data. Although the Tables and Figures used will continue to be referred to, from this point the participant scores will no longer be compared with this norm. Rather, the averages of the ‘control’ and ‘active’ groups will be analysed against each other, employing Ogden’s suggested flexibility in order to minimise hegemonic processes and align this research with the post-development methodological approach as discussed in Chapter 6 (see p.106). Additional flexibility will also comprise the use of rich qualitative data collected during the field research phase, and will be engaged following a comparative analysis between the yaqona drinkers and non-consumers.

DIGIT-SPAN SUBTEST RESULTS: GROUP COMPARISONS
Table 8.2 and Figure 8.1 show ‘control’ participants as scoring higher than the ‘active’ participants when assessed using the Digit-Span subtest with a 0.4 raw score and 1.0 point scaled score difference. In order to investigate the significance of this difference, the scaled scores for all participants were analysed using a simple box plot and two t-tests in The Statistical Package for the Social Sciences (SPSS).

Figure 8.3 illustrates the Digit-Span scaled score data of the ‘active’ and ‘control’ participants using a simple box plot. The numerical value 15 represents ‘control’ participant 15, whose score was outside the group's normal range and identifies this informant as an outlier (Griffith, 2007:187; Pallant, 2007:76). Two things stand out from this. Firstly the ‘active’ users exhibit a much greater range of scores, both in terms of quartiles and standard deviation. Secondly, there is also an interesting grouping within the quartile below the median. Although an exact reason for this greater range would require investigation beyond the scope of this current study, individual yaqona consumption levels (see Table 7.1 and Figure 7.1), steady-state concentration and the varying effects between individuals following consumption are likely to be the cause. Meador (1998:149-50), in his review of the cognitive side effects from medications such as anxiolytics and anticholinergic due to their
similarity in action to *yaqona*, adds to this hypothesis when he concludes that amounts and variability can cause differing effects across patients.

Figure 8.3
Simple box plot representing the Digit-Span scaled score data for the ‘active’ and ‘control’ participants.

Table 8.4 presents the result of a group statistics *t*-test analysis of the Digit-Span subtest raw and scaled scores of the ‘active’ and ‘control’ participants. This shows that the ‘control’ group answered on average 16.67 correct questions compared to the ‘active’ participants who averaged 16.22, or 0.45 fewer. The mean difference within the scaled score range is 9.44 for the ‘control’ and 0.27 points less for the ‘active’ group at 9.19. This again demonstrates a lower mean score and a greater variation within the scores of the ‘active’ user group.

Finally, Table 8.5 draws on the data from Figure 8.3 and Table 8.4 and shows the results of an independent-samples *t*-test (2-tailed inter-group comparison) between the scaled score mean of the ‘control’ and ‘active’ groups assessed with the Digit-Span subtest. The descriptor ‘degree of freedom’ within the table equals the “sample size minus [any] constraints” (Petrie & Sabin, 2000:28), “usually one less than the number of values used in the calculation” (Griffith, 2007:324).

Table 8.4
Group statistics *t*-test analysis using the raw and scaled score data for the ‘active’ and ‘control’ participants assessed with the Digit-Span subtest.

<table>
<thead>
<tr>
<th>Score analysis</th>
<th>Participants</th>
<th>n</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Standard Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digit-Span Raw Score</td>
<td>‘Control’</td>
<td>18</td>
<td>16.67</td>
<td>2.931</td>
<td>0.691</td>
</tr>
<tr>
<td></td>
<td>‘Active’</td>
<td>18</td>
<td>16.22</td>
<td>3.703</td>
<td>0.873</td>
</tr>
<tr>
<td>Digit-Span Scaled Score</td>
<td>‘Control’</td>
<td>18</td>
<td>9.44</td>
<td>2.093</td>
<td>0.493</td>
</tr>
<tr>
<td></td>
<td>‘Active’</td>
<td>18</td>
<td>9.17</td>
<td>2.550</td>
<td>0.601</td>
</tr>
</tbody>
</table>
Table 8.5
Independent samples t-test showing the amount of difference between the ‘control’ and ‘active’ Digit-Span subtest scaled score mean values.

<table>
<thead>
<tr>
<th>Digit-Span Scaled Score</th>
<th>t-test for Equality of Means</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Degree of freedom</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

The critical figure (in Table 8.5) for the purposes of this study is the ‘p-value’, also known as the ‘probability’ or ‘Significance (2-tailed)’ value, that being 0.723. Where such a value is 0.05 or more, this indicates “no significant difference between the two groups” (Pallant 2007:235). The independent-samples t-test infers that there was no significant difference between the two groups in terms of the cognitive processes of working memory as assessed with the Digit-Span subtest when administered at a time when the teacher participant was entering the classroom to teach. However, a somewhat different result was observed following the analysis of the Digit Span-Coding subtest data.

**DIGIT SYMBOL-CODING SUBTEST RESULTS: GROUP COMPARISONS**

Table 8.3 and Figure 8.2 shows the non-yaqona drinking (‘control’) participants as scoring higher on average when compared to the consuming (‘active’) group when measured using the Digit Symbol-Coding subtest. This is represented as a 11.3 raw score and 2.0 point scale score difference. In a similar manner to the Digit-Span results above, these scaled scores were analysed using a simple box plot and the two t-tests in SPSS.

Figure 8.4 illustrates the Digit Symbol-Coding scaled score data of the ‘active’ and ‘control’ participants following simple box plot analysis. The key points to draw from this figure are that the ‘active’ group has a lower median score and a tighter grouping, with less variation than the ‘control’. This is in contrast to the Digit-Span subtest results (Figure 8.3) which showed the non-consumers with less variation between individual scores. The possible reasons for this will be discussed following the test results.

Table 8.6 shows the result of a group statistics t-test analysis using the Digit-Symbol-Coding subtest raw and scaled score data of the ‘active’ and ‘control’ participants. This indicates that collectively the non-yaqona drinking group averaged 63.67 correct questions compared with the ‘active’ participants who answered 8.45 fewer at 55.22. When using the converted scaled score, the mean is 8.00 for the ‘control’ and 1.78 points less for the ‘active’ group at 6.22. This test underscores the much greater variability of the ‘control’ group scores with a larger Standard Deviation and Standard Error Mean for both the raw and scaled scores. A discussion concerning these values will be engaged following the results of the independent-samples t-test.

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67 This table is a condensed version of the original SPSS output file. The full table is presented in Appendix O.
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The Digit-Symbol-Coding subtest scaled scores were also analysed using the independent-samples (2-tailed inter-group comparison) t-test and are presented in Table 8.7. Similar to the results of the Digit-Span results above (Table 8.5), the critical figure for the purpose of this study is the ‘p-value’ of 0.015 with a magnitude of the difference in the means of 1.778. As the ‘p-value’ is less than 0.05, this indicates that “there is a significant difference in the mean scores between the two groups” (Pallant, 2007:235). These findings suggest that the ‘active’ group exhibited a statistically significant difference in the cognitive aspect of processing speed as assessed by the Digit-Symbol-Coding subtest when administered at a time when the teacher participant entered the classroom to teach. Statements such as “a significant difference” tend to imply a weighty measurable valuable. Therefore one is tempted to ask, ‘how big is this significance’? I will return and discuss this significance difference following comment on potential reasons why a variation in significance exists between the Digit-Span and Digit Symbol-Coding t-test results.

Table 8.6
Group statistics t-test analysis using the Digit Symbol-Coding raw and scaled score data for the ‘active’ and ‘control’ participants.

<table>
<thead>
<tr>
<th>Score analysis</th>
<th>Participants</th>
<th>n</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Standard Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digit Symbol-Coding Raw Score</td>
<td>‘Control’</td>
<td>18</td>
<td>63.67</td>
<td>20.167</td>
<td>4.753</td>
</tr>
<tr>
<td></td>
<td>‘Active’</td>
<td>18</td>
<td>55.22</td>
<td>10.814</td>
<td>2.549</td>
</tr>
<tr>
<td>Digit Symbol-Coding Scaled Score</td>
<td>‘Control’</td>
<td>18</td>
<td>8.00</td>
<td>2.521</td>
<td>0.594</td>
</tr>
<tr>
<td></td>
<td>‘Active’</td>
<td>18</td>
<td>6.22</td>
<td>1.517</td>
<td>0.358</td>
</tr>
</tbody>
</table>
DIGIT-SPAN AND DIGIT SYMBOL-CODING SUBTEST: WHY THE DISPARITY IN THE t-TEST RESULTS?

Prior to summarising these findings for further discussion, it is worth asking why a significant difference occurred in the mean scores of the ‘active’ and ‘control’ groups when assessed with the Digit Symbol-Coding subtest (Table 8.6), while there is no significant difference between the groups when measured with the Digit Span subtest (Table 8.4). As researchers have explained, there is a great deal that is unknown about the psychotropic and pharmacological effects of yaqona (see Footnote 69). Therefore, to accurately explain the reasons why yaqona does not seem to impair aspect of the working memory (as suggested following the Digit-Span subtest), but does impact on processing speed (as implied from the Digit Symbol-Coding subtest) would require research far beyond the scope of this study. However clinical investigations hint at similar findings with participants who had used both benzdiazepine and anticholinergic drugs which have an analogous action to yaqona.

Lawlor et al., as early as 1991 (p.100-101), noted that anticholinergic had no effect on working memory when assessed by the Digit-Span subtest, whereas “the storage of new memories [was] disrupted”. They noted similar effects concerning benzdiazene (p.103). Ancelin, Artero, Portet, et al. (2006:458), in a more recent study, concur with these anticholinergic findings. During their longitudinal study with elderly people they found that those taking this antihistamine-based medication “had significantly poorer performance on psychomotor speed, primary and secondary visuospatial memory, narrative recall, and visuospatial construction than non-users” – these being similar cognitive impairments to those identified in my participants following the administration of the Digit Symbol-Coding subtest. They added however that they had “found no significant difference for implicit memory or logical reasoning ability” – in other words working memory – in those same participants. They were unable to offer an explanation as to why this occurs with the exception that it may be linked with cholesterol (p.456). However their findings nevertheless reveal that the anomaly found with my participants is not unique.

A second point of interest arises from the spread of the test scores as illustrated in the quartiles and standard deviation in Figure 8.4. Why do the ‘control’ participants, when assessed by the Digit Symbol-Coding subtest, exhibit a greater standard deviation and score range, especially in the upper quartiles, when compared with their ‘active’ yaqona consuming peers who are vastly more evenly and closely clustered? Again, this is a

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**Table 8.7**

Independent-samples t-test showing the amount of difference between the ‘control’ and ‘active’ Digit Symbol-Coding subtest scaled score mean values.68

<table>
<thead>
<tr>
<th>Digit Symbol-Coding Scaled Score</th>
<th>Degree of freedom</th>
<th>p-value (2-tailed)</th>
<th>Mean Difference</th>
<th>Standard Error Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>34</td>
<td>0.015</td>
<td>1.778</td>
<td>0.693</td>
</tr>
</tbody>
</table>

---

Although Singh (2004:150) is clear that there is a great deal that is unknown about the psychotropic and pharmacological effects of yaqona, researchers acknowledge a similarity in action between yaqona (kava) and benzodiazepine medication (Dean, 2000:1-2; MediHerb, 1994:1; Mindell, 1998:36-7; Bone, 2002:306). Ashton (2002:n/a), in her online manual, describes in simplistic terms how benzodiazepines work – their “speed of elimination...[drug] half-life...duration of effects...therapeutic actions...[and] five major effects...anxiolytic, hypnotic, muscle relaxant, anticonvulsant and amnesic (impairment of memory)”, therefore assisting with an understanding of how yaqona works in the body. She adds that the “Acquisition of new information is deficient, partly because of lack of concentration and attention. In addition, the drugs cause a specific deficit in ‘episodic’ memory, the remembering of recent events, the circumstances in which they occurred, and their sequence in time. By contrast, other memory functions [memory for words, ability to remember a telephone number for a few seconds, and recall of long-term memories] are not impaired. Impairment of episodic memory may occasionally lead to memory lapses or ‘blackouts’. It is claimed that in some instances such memory lapses may be responsible for uncharacteristic behaviours such as shop-lifting.” Lawnor stats (1991:103) that benzodiazepines can impact “new memory formation without effecting access to previously learned information...[and] it is difficult to say whether the effects of benzodiazepines on memory are specific, or whether they are secondary to the sedative effect. (Although) memory impairment without sedation, however, has been demonstrated in a number of studies, suggesting that the effect of the benzodiazepines on memory is specific” (p.102). Additionally, Sadock, Kaplin & Sadock, (2007:345) states that the heavy use of anxiolytic medications induces “impairment in attention”. Kalat (2005:280) adds to this by stating, “impaired attention causes problems for almost any aspect of memory”. Yanagihara & Petersen (1991:401) make a similar observation, arguing that benzodiazepine and anticonvulsant medications can cause “hazy memory... affect[ing] concentration and decision-making as well as delayed recall”.

68 This table is a condensed version of the original SPSS output file. The full table is presented in Appendix P.

69 Although Singh (2004:150) is clear that there is a great deal that is unknown about the psychotropic and pharmacological effects of yaqona, researchers acknowledge a similarity in action between yaqona (kava) and benzdiazepine medication (Dean, 2000:1-2; MediHerb, 1994:1; Mindell, 1998:36-7; Bone, 2002:306). Ashton (2002:n/a), in her online manual, describes in simplistic terms how benzodiazepines work – their “speed of elimination...[drug] half-life...duration of effects...therapeutic actions...[and] five major effects...anxiolytic, hypnotic, muscle relaxant, anticonvulsant and amnesic (impairment of memory)”, therefore assisting with an understanding of how yaqona works in the body. She adds that the “Acquisition of new information is deficient, partly because of lack of concentration and attention. In addition, the drugs cause a specific deficit in ‘episodic’ memory, the remembering of recent events, the circumstances in which they occurred, and their sequence in time. By contrast, other memory functions [memory for words, ability to remember a telephone number for a few seconds, and recall of long-term memories] are not impaired. Impairment of episodic memory may occasionally lead to memory lapses or ‘blackouts’. It is claimed that in some instances such memory lapses may be responsible for uncharacteristic behaviours such as shop-lifting.” Lawnor stats (1991:103) that benzodiazepines can impact “new memory formation without effecting access to previously learned information...[and] it is difficult to say whether the effects of benzodiazepines on memory are specific, or whether they are secondary to the sedative effect. (Although) memory impairment without sedation, however, has been demonstrated in a number of studies, suggesting that the effect of the benzodiazepines on memory is specific” (p.102). Additionally, Sadock, Kaplin & Sadock, (2007:345) states that the heavy use of anxiolytic medications induces “impairment in attention”. Kalat (2005:280) adds to this by stating, “impaired attention causes problems for almost any aspect of memory”. Yanagihara & Petersen (1991:401) make a similar observation, arguing that benzodiazepine and anticonvulsant medications can cause “hazy memory... affect[ing] concentration and decision-making as well as delayed recall”.

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complex issue that would require a great deal of investigation outside of the scope of this study. However a possible explanation may lie in the relationship between anxiolytics and motivation. In his discussion on the therapeutic use of anxiolytics, Roth (1992:209) notes the union between this medication, increased “passivity” and impacts to intrinsic motivation, the undertaking of an activity for pleasure rather than reward. In another study, Deci & Ryan (1992:12) discuss the link between “intrinsic motivation,... choice... [and] challenge” as critical factors in achievement. In applying these two studies to the question of score distribution, it is possible that the greater spread in the upper quartiles of the ‘control’ participants is a reflection of intrinsic motivation in some who embraced the assessment as a challenge. Alternatively, the ‘active’ participants, potentially lacking intrinsic motivation due to anxiolytic properties of the substance, were less inclined to view the assessment as a challenge to be conquered, therefore limiting upper quartile ‘motivation influenced’ score spread.

**REFLECTION**

In summary, the results of the simple box plot analysis and the $t$-tests using the cognitive test data suggest three findings. Firstly, the consumption of *yaqona* appears to impact processing speed the following morning, as assessed by the Digit Symbol-Coding subtest results. In contrast, Digit-Span assessments on *yaqona* consumers revealed that the substance had a marginal negative impact on working memory. Similarities in findings have been noted among users of pharmacologically based anxiolytics such as benzodiazepine and anticholinergic. Because of this, there will no longer be discussion related to the Digit-Span subtest results and instead emphasis will focus on the Digit Symbol-Coding data and results. Secondly, a group statistics $t$-test also suggested *yaqona* consumers had a reduction in their processing speed when compared with their non-drinking peers. Finally, the independent-samples $t$-test showed that the group statistics $t$-test findings were statistically robust. Although this infers that it is highly likely that *yaqona* consumption reduced processing speed among my users, it must be remembered that this use of psychometric tests to examine cognition is exploratory (as discussed in the Limitations section), conducted to stimulate new understandings and bring a quantitative element to the subjectivity of *lomaloma ca*.

In the Methodology Chapter it was explained that the purpose of the independent-samples $t$-test is primarily an indication of whether an occurrence probability is negligible or significant. The question that arises regarding the $t$-test results is what is this degree of difference in the processing speed of the *yaqona* drinkers when compared with their non-consuming (‘control’) peers? Two methods will be employed to give meaning to this and further assist in answering the first part of the second research question, does *yaqona* impact teacher cognition? The first will be a basic comparison of the Digit Symbol-Coding subtest raw scores and the second through the voices of the teachers themselves.

**EXPLAINING THE “SIGNIFICANT DIFFERENCE”**

In the Methodology chapter it was explained that a key function of the Digit Symbol-Coding subtest is to measure processing speed that takes into account score errors (p.103). When the Digit Symbol-Coding subtest raw scores of the two groups are rounded, the non-*yaqona* drinking participants averaged 64 correct answers in two minutes compared with the *yaqona* consuming participants who recorded 55, a difference of nine correct answers. When calculated, this would suggest that the ‘active’ participants were taking (on average) approximately 0.31 seconds longer to answer each question when compared with their ‘control’ peers; a difference of 16.5%. Remembering that these findings resulted from the administration of the Digit Symbol-Coding, a subtest which assesses processing speed, it can be guardedly speculated that this represents a 16.5%, or 0.31 second delay in cognitive function in these *yaqona* consumers. Further, this 16.5% impairment also suggests a “significant difference” value between the *yaqona* consumers and their non-drinking peers.

However, it is the *yaqona* users themselves, the teachers who have to deliver education to their students ‘the morning after the night before’, who can best describe the “significance” of this quantitative finding.
**LOMALOMA CA: THE ETHNOGRAPHIC FINDINGS**

In Chapter 5 I discussed the “limited data” on *yaqona* hangover (Perez & Holmes, 2005:51) and the conflicting beliefs regarding the ability of this indigenous substance to manifest negative post-consumption effects. Further, I explained there that *vakaturaga* and the importance of *yaqona* to culture were the reasons why many drinkers refuted the possibly of *lomaloma ca*, or unpleasant post-consumption impacts. However, a somewhat different story is revealed when this theme was discussed in private, which produced ethnographic reports that give the quantitative findings a ‘personality’.

24 participants, both male and female, iTaukei and Fijian, offered insights into *lomaloma ca* during the field interviews which corroborated the reports as presented in my Master’s research (Aporosa, 2008:86-8). Although four of the informants initially stated they were alert and felt “fine the next day” (IQ040-043), all changed this view when questioned further, effectively contradicting themselves. Collectively, these participants reported similar hangover manifestations with common threads indicating “dizziness” (IQ044), feeling “groggy and sleepy” (IQ045-050), “unprepared... and... [got] angry easily” (IQ051-052), a lack of “motivation” (IQ053-057), frequently being “late to work” and interrupted memory (IQ058-061), manifestations which negatively “effect productivity” (IQ062-064). Strategies for dealing with this while teaching was most commonly reported as assigning student-directed work such as “copy[ing] from the [text] book” so teachers could rest at their desks (IQ065-072). Further, when questioned whether they felt their *lomaloma ca* impeded their ability to deliver quality education to their students, all participants responded in the affirmative (IQ073-81).

An iTaukei male school principal with almost 20 years teaching experience in both rural and urban schools stated—

> The effects of grog on me is like a big chain that ties me down and you forget to, or can’t be bothered, to attend to your commitments... I believe that excess grogging not only affects education, but health, village life and even the farm. But when we are talking about education then that means the teachers are impacting upon the students. (IQ082)

A senior Fijian male teacher with over 20 years experience supervising both iTaukei and Fijian staff, and working in an urban setting at the time of interview, commented—

> I have been drinking *grog* all my life, every day... Definitely yes *grog* effects [negatively]. First of all, the sleeping time is cut short and the mind needs some rest, but we use the sleeping time to drink *grog*. The mind is not active in the morning and we still feel a bit drunk and lazy. *Grog* will never make us active; it will always make us lazy. Lazy men can never do the job. See, the non-drinker prepares for the next day, but the drinker, he just wants to prepare for the *tanoa* [kava bowl]. So the drinker, he just comes the next day and he is not prepared, but the other one, he has already prepared. I try to be prepared, but some days, no. (IQ083)

Although the consumption of *yaqona* was not as prevalent among the iTaukei female teachers, several reported their post-consumption experiences. One senior female teacher, with 21 years experience in both urban and rural settings, commented—

> I drink [*yaqona*] nearly every night. Sometimes, when I drink plenty, I will *lua* [make myself vomit] before I sleep to get some out... For me, if I drink *grog* the night before I teach, as soon as I get to the classroom and sit down, I will go to sleep. So I have to stand up and walk around the classroom. So maybe when I drink *grog*, I do more in the classroom, because I know if I sit down I will go like this (indicates sleeping and laughs)? (IQ084)

Another female teacher with only two years experience, and teaching in an urban setting at the time of interview stated—

> I used to drink *grog* but I stopped [five months ago]. It was my own decision. I thought it was the best thing for myself and the students. I used to drink up to 10 or 11 [pm] every night and it made me feel very lazy. It was
having a big effect on the students. I was not concentrating and I just gave students work and I would relax. [Since ceasing *yaqona* consumption] I can see the change now. Before I was slow at teaching and marking, but now I spend more time with the students and feel more fresh in the morning. (IQ085)

**LOMALOMA CA AND INTER-RELATIONAL IMPACTS**

Several female teachers of both ethnicities were asked if they felt the consumption of *yaqona* by their male peers had any impact on them. Responses were mixed. For instance, two teachers stated that they did not wish to comment although their demeanour and tone of response suggested that they had experienced negative effects, however culturally it was inappropriate to discuss this. Alternatively, an *iTaukei* female with nine years teaching experience and working at an urban school at the time of interview stated, “Yes, they [male teachers] don’t feel like teaching after heavy *grog* so they ask us to supervise their classes so they can rest. They depend on other teachers to do the share [of the load].” (IQ086). A *Fijian* female with 12 years experience teaching at a semi-urban school got quite emotional when asked this question. Although speaking of her frustrations in a past tense, it was clear her experiences still impacted her. She confided—

When I was the VP [Vice Principal], the principal was always drinking *grog*. Yes, it affected me. I had to run the entire school on my own. It was hard to find him because he was never in his office, he was always out drinking *grog*. I had to do all the running, but I had no authority. I was not happy in those times, but I did not want to report him. I did not want to cause those problems. It is not fair that us people who do not drink have to cover for the people that drink *grog*. Sometimes I would get upset, and sometimes I would get annoyed. And it should not be like that. Why should we have to carry them? (IQ087)

The impacts of *yaqona* hangover were also noted by the spouses of teachers. Three separate reports were gleaned from *iTaukei* wives. One reported that after drinking *yaqona*, “he doesn’t wake up early, he doesn’t like to talk and his mood has changed” (IQ088). The second felt that “he is sleepy, and he needs lots of sleep. He gets moody, and he is easily frustrated over small things, and he gets frustrated with the children” (IQ089). The third commented that “after *grog* he feels lazy and he doesn’t want to do any work the next day” (IQ090).

*Fijian* spouses expressed similar concerns—

> After *grog* he is very lazy... even his tidiness is bad. He is a very different person from *grog* and no *grog*. After *grog* he does nothing. (IQ091)

Another stated—

> My husband drinks *grog* at the office [at school] and when he goes home. He drinks *grog* all day and every day. The *grog* has a big effect on my husband. He is very lazy, sleeps a lot. How can he teach? And whenever he drinks *grog* he smokes a lot, like a chain. (IQ092)

Discussions with *yaqona* consumers regarding mood swings suggested overall drinkers were nonchalant and listless the following morning, although if there were flashes of anger or mood swings, these were believed to result from a lack of sleep and not the substance itself. “That [anger and frustration] is because they never get enough sleep. With plenty of sleep you won’t get angry, plenty *kua ni leqa* [literally meaning ‘no worries’]” (IQ093). Anger and *lomaloma ca* was briefly mentioned in my opening narrative and also discussed in the earlier Master’s study (2008:87).

The impact of *yaqona* hangover on teacher productivity, reflected in comments such as ‘he/she/it is/are lazy’, was a reoccurring theme throughout these ethnographic reports. A *yaqona* drinking teacher in Southern Lau, an environment where the indigenous plant cannot be grown due to environmental factors, made an informative contrasting comment—
The *grog* comes with the *sedi* [the monthly boat from Suva]... so there is plenty of times there is no *grog*. You can see when there is no *grog* because the teachers are more energetic and the teaching standard, it is much better... When there is no *grog*, the teacher is more alert, always checking the students, talking with the students. The class is happy and the students learn more. Then after the *sedi*, it is different until the *grog* is gone. (IQ094)

An American Peace Corp volunteer who had been teaching for two years in both urban and rural environments, eloquently captured and condensed the comments and feelings of many when he said—

When I first came here [to Fiji] I was very culture shocked, so I drank *grog* because it helped me to settle in – that would probably be the anti-anxiety part of it. And I have been drinking almost every day since. See, I have thought a lot about this, comparing myself to before I came here. For me it feels like it [the *yaqona*] is affecting my goals, everything. It’s slowly killing me and sucking my life away. It’s like I have no energy, no spark to get in and do it. I was different before I drank *grog*, always motivated. Maybe the best way to describe it; when you wake up after drinking *grog* you feel like ‘old shoe laces’ – crusty, stiff, worn out. You come to the class and drag your ass, and you don’t care that you are like this... Of course this affects the students. Look at the teachers that don’t drink, they teach better because they have life. You can hear their class, laughing, involved. Yes, there are some who can drink and work, but they are not to capacity. All us *grog* drinking teachers are the same, we are all ‘old shoe laces’ waiting for the end of the day when we can do it all again. (IQ095)

**LOLALOMA CA: ETHNOGRAPHIC REPORTS ON CONCENTRATION AND MEMORY**

A number of teachers of both genders and ethnicities reported concentration and memory difficulties following *yaqona* consumption, although detailed explanations proved difficult to obtain. Because many of the teacher participants were *lomaloma ca* at the time of interview, it is possible that this sparseness of detail was due to post consumption impact. An *iTaukei* male teaching at an urban school stated—

Sometimes I find it hard to remember. I don’t think the *grog* affects the brain and memory permanently, but the *grog* makes you lazy and so you don’t want to remember. Even sometimes you feel too lazy to talk to people. And sometime you can’t remember simple things... like a [person’s] name. (IQ096)

A *Fijian* teacher from a semi-urban environment confirmed this when he stated, “Yes, sometimes it is hard to recall small things” (IQ097). Another *iTaukei* male with almost 20 years teaching experience in both rural and urban settings was slightly more specific when he said, “Yes, the *grog* slows you down, it makes your brain lazy, it makes it hard to think. But you can remember if you force through and then you can get started and it’s okay” (IQ098). This appears similar to what Lawlor (1991:100-1) termed “new memories” disruption (see p.135 this study) and mimics what clinicians term memory “retrieval failure” following anxiolytic use (Petersen, 1991:13). When asked how long these manifestations persisted, reports differed from, “you are good after lunch” (IQ099) to being fully alert and “recovered after a few days” (IQ100) dependent upon how much was consumed. Comments such as full recovery can take several days potentially illustrates the impacts of *steady-state concentration* (p.78-79).

Whereas this section aimed to answer the first part of the second research question, does *yaqona* impact teacher cognition?, the next will consider the second part of that question, whether *yaqona* is also a factor in teacher sickness and absenteeism, the focus of the next section.

**ABSENTEEISM, PRESENTEEISM, AND ARRIVING LATE**

In Chapter 2 I discussed absenteeism and its threat to productivity, citing research that found users of indigenous substances were three times more likely to arrive late and accounted for up to 80% of sick leave, costing the US $184 million in lost revenue annually (see p.10-11). There appears to be a relationship between *lomaloma ca* and absenteeism in Fiji. For instance, “Lautoka doctor Davendra Nandan said that the [*yaqona*] hangover effect was a major cause of people seeking sick sheets, with symptoms ranging from burning stomachs, gritty eyes, thirst, and headache to body aches.” (Baba, 1996:2) A *Fijian* teacher with over 20 years experience...
initially laughed when I asked him if he believed yaqona consumers took more sick days than non-drinkers, and followed by stating–

Yes, but you can never prove [this]. The problem is that some of the compassionate and bereavement leave is not for compassionate and bereavement purposes. Some of it will be for grog but they say it is for bereavement. People can even get medical certificates and tell the doctor that they are sick but the problem is grog. Just yesterday we had a teacher who was absent. But someone came and filled in the attendance role for them. I am trying to find out who did this. He is still absent today and someone filled them again today. See, sometimes people play up. I will tell the staff that if this happens again I will put the book on my desk and they have to sign in here. Plenty loopholes in Fiji (smiles). (IQ101)

An iTaukei school principal, also with over 20 years teaching experience stated categorically, “Yes, I know that grog drinkers have more sick days than people who do not drink” (IQ102), with a Fijian principal stating, “Plenty of them [hungover on yaqona] still come to school, but sometimes, lunchtime, they run off; they do not finish the day, they just leave and it is not recorded as a sick day” (IQ103). Another Fijian principal, at an urban school at the time of interview, stated–

I know of a teacher who was sick for two days after grog but said they were sitting an exam at USP [University of the South Pacific] and was granted study leave. Some teachers report to the office and then go straight home and get another teacher to watch their class and no sick days are recorded. (IQ104)

An iTaukei male in their second year of teaching at a rurally isolated school commented–

Yes, I had two sick days in the last year. They were not registered as sick days at the office. Both times coz of grog. I come to school and then said I was sick and I went home. I didn’t tell them that I had been drinking grog the night before. If you come to school and then go home sick, they do not register you on sick leave. (IQ105)

Another iTaukei male teaching in a rural setting echoed the previous participant when he stated–

I had four sick days [in the past 12 months] because of grog. The official records is zero. Like, one time we finished [drinking yaqona] late, at 4am, then I had to start at 8[am]. I came to school and then asked permission to go home. I got some pain in my head so I went to the hospital, but I did not admit that it was from the grog. I got a [medical] certificate and I went home. Most of the time the principal does not know when we are drinking grog. (IQ106)

These reports appear to echo the concerns of Professor Reddy who comments (in Chapter 5, p.80-81) that sick-leave due to excessive yaqona use is frequent although tends to be reported as a “stomach bug” or other ailment.

Eight of the 18 schools visited during the field research provided a copy of the previous 12 month’s ‘sick reports’. In the interests of school anonymity, the data has been clustered and identifiers eliminated. The reports provided sick leave records for a total of 188 teachers – 69 yaqona consumers and 119 non-drinkers70. The total sick days were calculated for both groups and averaged 4.3 sick days for each of the drinkers and 4.5 days for the non-consumers. However, these figures are potentially misleading and inaccurate for several reasons. Firstly, the ethnographic reports above state a number of incidents where sick leave due to yaqona post-consumptive effect was taken although never recorded. Secondly, the sick leave reports from a school with more than 15 staff members showed that not a single day’s sick leave had been taken by anyone at the school in the previous 12 months (IQ107), however I was made aware of two teachers who had taken several lots of sick leave during that period. At another school, three teachers reported taking sick leave due to lomaloma ca, although the ‘official’ records showed no absent days for these same staff members (IQ108).

At yet another school, a teacher assured me–

70 The categorisation of teachers as either yaqona consumers and non-drinkers was aided by the school principal, or in cases where this was unknown, the teacher themselves. Of the non-drinkers, a large proportion of these were Fijian females who rarely consume the indigenous substance (as previously discussed).
No, [I have taken] no sick days in 10 years because I drink grog every day. See, it’s mostly the non-drinkers that get sick and us drinkers are more healthy because we drink wainimate [yaqona as ‘medicine’]. Especially the woman, they are always sick because they don’t drink grog. (IQ109)

However, this teacher had five days of sick leave recorded for the past 12 months (IQ110).

Although it is common for yaqona consuming teachers to deny taking sick leave or feeling sick, often citing the medicinal properties associated with the indigenous substance as the reason (IQ111-122), checking with other sources such as school sick leave records and supervisors (IQ123-131) proved this incorrect. Further, although the informant above suggested, “you can never prove [yaqona drinkers take more sick days]”, these ethnographic reports show otherwise.

The problem with workplace absenteeism data accuracy is certainly not unique to the Fijian setting71. Johnson, Westerfield, Momin, Phillipi, et al, (2009:566) report that there is a “lack of consensus... in the methodological debate” as to whether data used to estimate absenteeism “should come from administrative sources..., personal [medical insurance] claims or from employee self-reporting.” Administrative data, they argue, is often difficult to obtain and self-reporting tends to be misleading due to “plausible alternative reasons for employee absenteeism” being given (p.566), an issue evident in the ethnographic reports of my participants.

In a comprehensive study on absenteeism recently conducted in Australia, researchers estimate that the average daily cost in lost productivity is $370 per employee (Aylward, Bratt, Beaumont, et al., 2010:9). This converts to $549 Fijian dollars per employee per day72. Although this raw monetary value is significant, especially to a developing economy such as Fiji, purely financial views fail to delineate wider issues, as mentioned by the research participants. These include the alertness and preparedness of teachers when they arrive at work in the morning, the delivery of quality education to their students who have come to learn in an environment funded by parents, the community and the government, and the impacts to peers who are expected to ‘take up the slack’. Additionally, these systems are all linked to a national development process reliant upon education as one of its drivers (see Chapter 4). Smith (2007:1) considers and encapsulates the wider issues when he states, the “loss of productivity [due to absenteeism] has a ripple effect... both directly and indirectly... [by reducing] the quality of public and private goods and services. At the workplace, it may place an additional burden on employers and workers especially at critically important times, or in key processes.” Further, while the sick reports I obtained from the eight schools indicated an average of 4.3 annual sick days for non-drinkers and 4.5 for yaqona consumers, these figures are highly subjective, as a number of factors discussed here tend to question the reliability of sick reporting generally.

Johnson et al. (2009) follow their discussion on the accuracy of workplace absenteeism data by adding that measuring this disruption is vastly easier than attempting to quantify the impacts of presenteeism, which is “simply defined as unproductive hours while present at work” (p.568). A senior Fijian teacher at a semi-rural school linked presenteeism with teacher lomaloma ca and impacts to education delivery when she said, “Some [teachers] are here but they might as well be at home” (IQ132). A number of earlier statements, such as if “I sit down, I will go to sleep” (see IQ084 above), corroborate this. Cyr & Hagen (2007:1299) add that “the complex nature of presenteeism” makes it extremely difficult to measure and even more problematic to convert to “monetary estimates [of] lost productivity”.

I would suggest that the complex nature of presenteeism, especially when it is linked with yaqona, is even more circuitous to define in the Fijian teaching context due to cultural factors. Dr. Helen Tavola (2000:169), an expert in Fijian education who has travelled extensively throughout the country researching and assessing educational systems, is responsible for one of the few published statements on teacher yaqona consumption and impacts to education. She added–

71 In April 2013, Fiji One News reported what they termed a “sick sheet scam”, the production of counterfeit doctor sick reports to cover periods of sick leave.
Ruze (1990:1442) explains that measures this. Nine school principals stated they had observed lateness due to possibly some defined point at which the exception of three, all had spoken directly to the ‘offending’ teacher. A male with their isevusevu of lateness following time of interview stated, “I have not had any sick days in the last year [although ‘official’ records showed three]” or comprises part of cultural obligation and practice. If the latter, at what stage then would presenteeism occur? Is it when the teacher departs the classroom; at a time when the teacher’s yaqona consumption induces intoxication (see p.77) and impairs the ability to return and teach; or is it possibly some defined point at which the isevusevu concludes and socialisation commences? Answers to such questions are philosophically problematic. However they illustrate the difficulties of measuring presenteeism among teachers in the Fijian education context where culture is strongly influential.

The final theme that comprises part of the presenteeism and absenteeism debate is lateness due to post-consumption effects. A female iTaukei with six years teaching experience and working at an urban school at the time of interview stated, “I have not had any sick days in the last year [although ‘official’ records showed three] but I come to school late a lot of times because of yaqona [kani dermopathy73], and I told him direct, ‘you drink too much grog and that makes you a bad teacher’.” (IQ144)

Two Fijian and two iTaukei Principals stated that instead of speaking to ‘offenders’ directly they addressed issues in staff gatherings. “I have told teachers at staff meetings that if the grog is affecting their work they need to quit. I have never spoken to an individual teacher about grog” commented the rural Fijian principal (IQ145). One of the iTaukei principals, leading an urban school stated, “I talk to teachers about the behavioural issues. I do not refer to their consumption of yaqona” (IQ146).

73 Ruze (1990:1442) explains kani, or kanikani, as “A scaly rash suggestive of ichthyosis and eye irritation... present in some heavy kava drinkers”. This manifests in different ways with different consumers although tends to be more pronounced in colder months (Ruze, 1990:1443) and “is treatable – usually a week. For some drinkers it is most noticeable as a peeling of the skin around the fingers and toes whereas others it may be present on the legs and back and occasionally on the face. Additionally the ‘red, irritated eyes’ which Ruze describes (p.1443) is not universal to all heavy drinkers. I would argue that Ruze’s description of a “rash” tends to suggest itching and/or painful inflammation. Kava dermopathy (as it is clinically referred) is mostly not itchy and if this does occur can be simply remedied with moisturiser. Additionally, on rare occasions following extreme amounts of yaqona ingestion over consecutive days the peeling will subside and the pores of the skin will weep a clear (mostly) odourless liquid similar to sweat. This tends to occur mostly on the sensitive areas of the body such as under the arms and down the sides of the torso and has been mistaken by doctors as Shingles (the varicella-zoster virus) (personal experience). This can take several days to subside and is extremely painful, especially to the touch. Kanikani is discussed at length in my Master’s study which included a photo (Aporosa, 2008:53,69-70,78-9,110-11). An important aspect of that discussion was kanikani as a ‘Badge of Honour’. In Chapters 4 and 7 of this thesis I explained that Fiji’s “cultural keystone species” is deemed an ingestible manifestation of the vanua with the ability to consume vast quantities of yaqona believed to demonstrate Fijian-ness. In many circles kanikani is deemed to be a visual demonstration of that Fijian-ness. A participant in the earlier Master’s study encapsulated this idea when they stated, “If you have kanikani it shows you drank a lot of grog, you are ‘the man’. It’s like an unspeakable badge of honour” (p.79). Therefore kanikani could be argued to comprise a demonstrable facet of yaqona identity based on historical influences in addition to the consumption and use practices as discussed in this study. For instance Smith, a missionary in Tahiti in 1813 stated that “After some continuance of yava [kava]-drinking, the skin begins to be covered with a white scurf, like the leprosy, which many regard as a badge of nobility. (p.53). Beaglehole’s (1967:612) edited volume on The Journals of Captain James Cook adds to this when it reports “the more Scaly their bodies are, the more honourable it is with them”.

CHAPTER EIGHT:
Yaqona, Cognition and Absenteeism
The second iTaukei principal, a female at a rural school stated the reason she spoke to the misdemeanour (arriving late and absenteeism) rather than the consumption of yaqona was because “the grog is sacred so we don’t want to say that the grog can be bad” (IQ147). This comment reflects the earlier discussion in Chapter 5 (p.78) in which I suggested that there is a reluctance to openly discuss lomaloma ca and any negative parallels, which in the case of this study includes impacts on productivity and quality education delivery, due to the sacredness of yaqona. Essentially, to criticise the consumer or link yaqona to a negative output is to vicariously criticise the emblem that is beyond criticism. This participant continued, “There is plenty things that is causing under-achievement in Fiji, but yes; grog is one of them” (IQ148).

Reports of this nature aid in answering the second part of the current research question, acknowledging that yaqona is a factor in teacher sickness and absenteeism. In the final section of this chapter, these lomaloma ca manifestations will be combined with earlier discourse on teacher cognitive impairment in order to answer the final part of the second research question, what effect does lomaloma ca have on education delivery?

LOMALOMA CA AND QUALITY EDUCATION DELIVERY

In Chapter 4 I discussed the importance of education as a development tool (p.49-50). The Fijian Government have embraced education as part of increasing national development and economic growth (Ministry of Finance and National Planning, 2004:7-9). In the latter section of that report they stated that in order to achieve this, emphasis must be shifted from “raising school enrolments [to] raising school learning achievements” (p.34). They detail nine policy objectives that have as a central theme running through them—the need to improve the quality of education provision (p.35). Voigt-Graf (2003) concurs, stating that for Fijian education to achieve expansions in economic growth and national development, “the quality of [that] education... depends on the quality of teaching staff” (p.164). Further, Bessell (2009), another commentator concerned with education in Fiji, argues that “unprofessional behaviour among teachers” (p.66), namely arriving in the classroom hungover74, as one of several impediments to quality education delivery. Finally, the MoE (2000:212,215,220) also acknowledges an urgent need for a lift in education delivery standards. To answer the final part of the research question, which asks what effect lomaloma ca has on education delivery, this must be considered in terms of quality education delivery.

Chapter 4 discussed the attributes of quality education delivery by drawing on McGee & Fraser’s (2008) edited text that set out the “roles” and core competencies of a teacher. These included “critical reflection” (McGee & Fraser, 2008:xvii), “hard work” (Fraser, 2008:2), motivational flexibility (Fraser, 2008a:13, Barker, 2008:21), being relevant (Frazer, 2008b:47), “depth of knowledge... [and] passion” (Fraser, 2008b:48), intuition (Fraser, 2008b:50), “quality feedback and feed-forward” (Fraser, 2008b:58), facilitation skills (McGee, 2008:86,87,92), planning, time management, monitoring, evaluating and assessing (Hill, 2008:136-7,140,143; Lang, 2008:243,252; McGee & Taylor, 2008:116, Yates & Ussher; 2008:105,108), a “duty of care” (Hall, 2008:230) and a “balance... between work, domestic responsibilities, and leisure activities” which includes adequate sleep (Lang, 2008:243). How then does the Fijian teacher, who has spent the previous night consuming yaqona, measure up regarding these “roles”?74

The previous sections of this chapter contain qualitative findings together with 98 separate ethnographic reports that present negative impacts associated with quality education delivery post-yaqona consumption. All of these, to some degree, crossover and appear to contravene the roles or teacher core competencies as summarised in Chapter 4. For example, 32 participants noted motivational impairments such as lethargy, grogginess, laziness and sleepiness, attributes that are necessary to the roles or teacher core competencies of critical reflection, facilitation, feedback, hardwork, a passion for learning, a striving to improve, planning and time management. Motivational impacts, with the five reports of mood swings and anger, are inhibitors to flexibility

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74 Bessell (2009:66) discusses that the “unprofessional behaviour” of teachers in Fiji can be corrected by “coming to school sober or not affected by alcohol or other stimulants as something that would improve the educational experience for students.” In her article she does not mention yaqona, an indigenous substance that is not a stimulant. In the past 12 years visiting, living and working at schools in Fiji, I have only once heard of a teacher being spoken to after coming to a campus affected with alcohol, although arriving lomaloma ca with yaqona was a daily occurrence. I emailed Bessell and explained my experiences as discussed. I added that unlike many countries where grog is a colloquialism for alcohol, in Fiji grog is yaqona. Therefore, was it possible in hindsight that there was a misinterpretation, and the substance responsible for impairing the sobriety of teachers, as discussed in her paper, was in fact ‘grog’ as in yaqona, and not alcohol, as she implied? Unfortunately she did not respond to my emails (July 2, 2010 and Aug. 9, 2010). Nevertheless, I would strongly argue this is the case, that the teachers Bessell refers to as required to “come to school sober” in order to “improve the educational experience for students” are in fact “affected” with yaqona and not alcohol, and therefore I have, without hesitation, used her work in this context.
and student understanding as part of staying relevant with pupils. Further, the six reports of unpreparedness, together with the qualitative findings regarding impairment to processing speed, interfere with ensuring rules, routines and consequences are kept simple, purposeful and understandable.

Moreover, memory recall is a necessary input to all of these competencies. However, this is a cognitive faculty recognised as being impaired in the cognitive assessments and in feedback from five of the participants. Therefore, as much as McGee (2008:86,87,92) can assert facilitation and the asking of rhetorical questions to be simple methods in elevating discussion and learning (because they are based on “little more than memory recall”), the reports and findings as presented above tend to suggest that such competencies are hindered following yaqona consumption. Motivation, awareness and perception are also necessary to intuition (Myers, 2000:23-6), faculties which also appear impaired by post-consumption although necessary to understanding student perspectives and staying relevant with pupils. Further, teacher “duty of care”, a responsibility that requires multiple cognitive faculties including observation, motivation, perception and memory recall also appears threatened. Hall also argued the importance of teachers ‘practicing what they preach’ – a role jeopardised when the teacher is unable to model alertness, motivation and preparedness75. Finally, in order to fulfil these roles and competencies, teachers need to be present. However attendance, both physically and mentally, are hindered through lateness, absenteeism and presenteeism due to post-yaqona consumptive effects.

When McGee & Fraser’s “roles” or core competencies of a professional teacher are contrasted with the impairment manifestations reportedly experienced by yaqona hungover teachers, the results of the cognitive tests, together with participant comment, strongly suggest that these are compromise, which in turn jeopardises quality education delivery. Menter (2009), in his concluding chapter in another edited volume discussing teacher competencies – which includes “‘professional virtues’, that is... technical and ethical standards” (Gewirtz, Mahony, Hextall & Cribb, 2009:3) – argues that the types of roles discussed there are the benchmarks of a ‘professional teacher’ who is an active participant in nation building and economic growth (p.225). Therefore, Menter infers that teachers who arrive in the classroom in the morning impaired for whatever reason are not only limiting student learning through substandard education delivery but also impeding national development and economic growth. These findings will no doubt be ‘music to the ears’ of anti-yaqona campaigners and religious organisations (who I discuss in the following chapter), together with development practitioners who tend to focus primarily on indigenous substances as threats to modernity, and economic development. Further, due to interest surrounding yaqona as a threat to productivity in Fiji (see p.80), I would suggest that this type of finding will be seized upon and quoted by these same people and groups who will fail to acknowledge the qualifier that follows.

CONCLUSION

This chapter started by posing the question, does yaqona impact upon teacher cognition and sickness and absenteeism and if so, what effect does this have on education delivery? By analysing the cognitive test data which compared yaqona consuming and non-drinking teachers as they enter the classroom in the morning, this suggested a significant difference in the mean scores between these groups groups. Then, by assessing the process used to gain the test data this ‘significance’ was guardedly believed to represent a 16.5% deficit in processing speed of the yaqona consumers. The qualifier ‘guardedly’ was used to acknowledge that time constraints and cultural factors prevented ‘gold-standard’ methodological procedures and therefore this method was exploratory and experimental. However, when the quantitative and ethnographic evidence were combined, this tended to support the assertion that the post-consumptive effects of yaqona negatively impact teacher roles, competencies, professionalism and attendance. When these findings are linked with discussion on the importance of education as a development tool, it tends to draw the reader to a reasonably tidy conclusion – that yaqona consumption impedes quality education delivery, which in turn hinders the achieving of developmental goals, and therefore jeopardises increases in national development and economic growth. However, such a sterile verdict fails to consider wider issues – that yaqona, an indigenous substance central to identity and cultural practice, is important to development.

75 The importance of teacher’s as role models was discussed at length in my Master’s study (Aporosa, 2008:67-70).
The theme of culture to development was discussed in Chapter 2. Additionally, the importance of culture to educational achievement was described in Chapter 4. This argued that commentators believe culture, identity and traditional practices were shown to be vital to achieving successful long-term development and educational attainment. What has not been agreed on though is the level of influence culture should have in development practice (p.15-16). Regardless of whether culture is embraced at a moderate level as in post-modernisation ‘impasse’ (see p.13), or exclusively, as in post-development thinking, culture remains vital to development and also assists in eliminating myopic sterile verdicts. The cultural influences associated with *yaqona* and its post-consumption effects on education will be an important theme in the following chapter in which I will address the final research question: Does *yaqona* play other positive roles in the school environment and if so, what action should be taken regarding teacher *yaqona* use, considering it both negatively impacts quality education delivery through teacher impairment although is central to culture and aiding to academic achievement? While this chapter has tended to draw out the negative implications of *yaqona*’s relationship with teaching, the following delineates a broader perspective.
INTRODUCTION
This final findings/discussion chapter seeks to answer the last research question: Does yaqona play other positive roles in the school environment and if so, what action should be taken regarding teacher yaqona use, considering that yaqona is central to culture? Prior to addressing this it is worth summarising the discussion thus far to allow several themes to be highlighted.

Chapter 2 explained the conventional development theories of modernisation and neo-liberalism and their emphasis on economic growth and Western style development. This was contrasted with post-development, an anti-hegemonic, internally initiated and theorised development ideology that could also creatively manipulate external systems for their own interests. Although post-development argues for self-determination, the importance of traditional knowledge and discourse systems, communal work practices and ‘economic’ modes of gifting and reciprocity, to date it has not been applied to consideration of indigenous substance use.

Chapter 3 discussed five indigenous substances, explaining that prior to colonisation, the introduction of a monetary economy, and/or industrialisation, these preparations had been deemed non-problematic to socio-cultural and productive systems within their traditional environment. These ‘outside’ influences were so pervasive and efficacious that they frequently caused the demise of, or greatly restricted the use of, most traditional substances within a very short time frame. An exception to this was the use of kava in several Pacific nations, where its importance for identify and ceremonial significance was either recognised and “grafted to the culture” (Tavola, 1991:9) or ignored by the colonials (Crowley, 1994:90). This reinforced use systems that have remained to this day.

In Chapter 4 I discussed education as a key input to national development and economic growth together with the importance of cultural identity to academic achievement. The Fijian Government have embraced education as part of their national development strategy, also recognising the importance of local cultural values and systems. These include yaqona and vakaturaga, elements that also comprise student culture and their expression and identity, elements argued as important to academic achievement. Yaqona use appeared unproblematic until questioned by the MoE in their 2000 review. Although they acknowledged at the outset the importance of yaqona to culture and practice, the MoE followed with concerns that the over-consumption of this indigenous substance by teachers was having a negative impact on education delivery.

Chapter 5 added to the concerns of the MoE by presenting items in the media that suggested the over-consumption of yaqona negatively impacts productivity. However, in a similar manner to the MoE, no focused research has been conducted to test these reports with the exception of my Master’s investigation and preliminary research conducted by USP. My Master’s study was summarised, explaining yaqona intoxication and steady-state concentration together with field research data that suggested teachers consumed yaqona on average for three hours on nights prior to teaching which manifested lomaloma ca and impacted their ability to teach. Moreover, that study reported teachers as suggesting yaqona consumption was difficult to control due to vanua-based relationships, vakaturaga, cultural obligations and a lack of extra-curricula activity.

Chapter 7 presented new findings that both corroborated and extended areas of my earlier Master’s investigation. This included new findings on teacher yaqona consumption durations of six hours (average) on nights prior to teaching. Further, new perspectives were gained regarding the importance of yaqona to iTaukei cultural identity by investigating several misconceptions revealed between this and the previous Masters research. Additionally, Fijian identity was also shown to be linked with yaqona use. This is mostly through socio-cultural systems and dispora identity formation, although traditional use patterns were reported at some Fijian schools through iseivusevu.
Chapter 8 discussed the cognitive test results and *lomaloma ca* of post-yaqona consumers. Together with the themes of lateness, absenteeism and presenteeism, the findings suggested that the consumption of *yaqona* for an average of six hours on nights prior to entering the classroom potentially caused a 16.5% decrease in processing speed when compared with non-*yaqona* drinkers, which in turn inhibits teacher “professional virtues” (Gewirtz, Mahony, Hextall & Cribb, 2009:3). This in turn is argued to have a negative impact upon national development. With the exception of *yaqona*’s link with cultural identity, argued as a positive input to academic achievement, this substance’s position within the remaining educational environment does not look good. When this is further considered alongside development theory, which has tended to view the use of indigenous substances as an impediment to developmental process (see p.8-9,47), situationally imposed bans or prohibition on teacher *yaqona* consumption would appear, at first glance, to have considerable merit. As discussed at the end of the previous chapter, those opposed to *yaqona* use together with those who consider it simply as an impediment to production and developmental advancement will no doubt seize this ‘apparent’ explicit finding and use it to push their agenda. However, prior to making such a leap, ethnographic comment gleaned during the field research must first be considered. This asks, does *yaqona* play other positive roles in the school environment?

**YAQONA AS FACILITATING SCHOOL FUNCTION**

Sixteen school principals were interviewed and asked what role *yaqona* played within their schools. With the exception of one, who stated that due to religious beliefs the indigenous substance was not permitted on the campus (IQ149), the remainder commented in various tones *yaqona*’s role in facilitating school function (IQ150-158). This facilitation manifests in a number of ways.

**FACILITATING PARENTAL PARTICIPATION IN THE SCHOOL**

A common theme associated with *yaqona*’s role in aiding school function was its use in encouraging and facilitating parental participation. As was explained in Chapter 4, most schools in Fiji operate on a State/Community partnership. This relies heavily on parental and alumnae assistance which contributes to voluntary labour, fundraising activities, and food items for boarding students. Without this community input schools would fail to operate (Nabobo-Baba *et al*., 2012:386). Therefore, well-developed and maintained relationships are critical to the survival of most schools. An *iTaukei* principal from a rural school summarised the situation when he said, “*Yaqona* is very important to all Fijian schools [generally] because it is part of the culture but also because it brings the parents to help the school. Like tomorrow we have a building project. No *grog* for the parents, some will not come and then we can’t support the school and the students” (IQ159). Another stated, “see, we don’t have money to pay [parents who volunteer], so we *caka yaqona ni vakavinavinaka* [show appreciation by hosting them with *yaqona*]” (IQ160).

Such a response could give the impression that voluntary commitment and the success of the State/Community partnership is based upon coercion through *yaqona* addiction, but as I pointed out earlier, citing pharmacological literature, *yaqona* is not believed to cause addiction (p.40). I have looked at this in my Master’s research and suggest that if the label ‘addiction’ is to be applied to *yaqona*, I would hesitantly use ‘socially addictive’ in the sense that it has been habituated to most aspects of Fijian socialisation (Aporosa, 2008:52). A female principal at a rural school added to this. I asked her whether she believed parents simply came to support her school because of the *yaqona*. She replied—

> It’s like the *grog* calls the people. It’s hard to explain, but you know, it calls the people together. People who don’t drink *grog* don’t understand this. Like they say, ‘see, the *grog* is bad, it is in control of you people, you *grog* swipers’. But it’s not like that. We are Fijian’s [*iTaukei*] and *yaqona* is important to us. We greet each other with it. We use it for *vakavinavinaka* [showing appreciation]. We use it for talking, for meetings, and for mixing with friends. So it is both. Parents come to work because they want to support the students, to support their old school. Then they sit after, *lose* [mix] na *yaqona*, talanoa [talk, tell stories]. This is *itovo vakaViti* [the “Fijian way’]. When there is no *grog* parents don’t come. That is because no *grog* changes everything, like we are not Fijian”. (IQ161)
FACILITATING THE PAYING OF SCHOOL FEES
A second valuable role of *yaqona* in facilitating school function is its use in paying school fees, an aspect that tends to be more common in rural areas where *yaqona* was cultivated. *Yaqona* given for this purpose is subsequently sold and the cash credited to fees (Tiriman, 2005:n/a; Aporosa, 2008:60; Nabobo-Baba *et al.*, 2012:248; IQ162). Instead of being a hindrance, a rural principal stated that he likes this manner of payment, as parents frequently give quantities of *yaqona* valued at more than the fee debt (IQ163).

FACILITATING DISCUSSION AT BOARD AND PARENT-TEACHER MEETINGS
A third role in which *yaqona* facilitates school function is its use at board and parent-teacher meetings. Several principals, both *iTaukei* and *Fijian*, asserted that *yaqona* is essential to these meetings as it offers a culturally appropriate setting that encourages open discussion (IQ164-166). For example, two principals have commented that during board meetings, when sensitive issues need discussion, they would pose the question and immediately call “taki mada”, literally meaning ‘serve (the *yaqona*) please’. Because *yaqona* culture prescribes a communication hiatus during consumption (Barker, 1968:91), this encouraged those present “to think deep about the answer. If no *yaqona*, then people talk before thinking” which weakens solutions, argued the informants (IQ167,168). Further, both teachers and parents are reportedly more relaxed, facilitating critical discussion that in other settings could be difficult to engage. This communication process is *talanoa*, a theme I will return to shortly.

FACILITATING FUNDRAISING
Fourth, *yaqona*’s use at fundraising events is also deemed vital to financial contribution (IQ169-173). Most schools in Fiji hold annual fundraising *bazaars* which include the sale of food, handi-craft items and the holding of sports events and cultural games with proceeds given toward future running costs and major projects (Perkins, 1967:146-8; Tavola, 1991:92; Nabobo-Baba *et al.*, 2012:298). The inclusion of *yaqona* at these events is so common that Cooper (2003:22) includes a photo of a *Talatala* (Minister) “taking *yaqona* [at a] school sports day” in his précis on “*Viti*” (Fiji) (Figure 9.1). Although Cooper’s photo depicts only three people, at fundraisers attendees frequently gather in *vanua* groups and consume *yaqona* – which the parents and alumni themselves usually supply – in a practice termed *gunu sedi* (literally meaning ‘drinking [for] cash’).

Technically the *yaqona* is not ‘sold’ during *gunu sedi* in the typical sense, as this is culturally inappropriate (Toren, 1999:37-8). Instead attendees make financial offerings to a ‘crier’ who announces their contribution.
This is followed by hearty thanks and a *bilo of yaqona* to all. At other times groups compete against each other to encourage and increase giving (Nabobo-Baba et al., 2012:298). For instance, I attended a *bazaar* at a rural school on two occasions76 where parents and supporters gathered in five designated groups based on *tikina* (district) affiliations. Several of these *tikinas* were *veitabani* to one another (loosely translated as former combatants during the tribal warfare era) (Sahlins, 2004:280). In contemporary culture, violent rivalry has been replaced with *bole* – vigorous joking and fun based competitiveness in the manner of *tauvū* (Toren, 2005:281) as discussed in Chapter 5 (p.76-77). Therefore *veitabani* competitiveness is often encouraged and exploited at *bazaars* to increase fundraising capacity. Toren (1999) presents an insightful description of *gunu sedi* and *bole* that nicely illustrates this discussion. Although she explains *bole* between *tavale* (cross-cousins), her observations are equally applicable to the *veitabani* situation—

*Gunu sedi*, as opposed to ordinary everyday *gunu yaqona* (*yaqona*-drinking), is the name given to those occasions where money is raised by buying and drinking *yaqona* together with other members of the community. This is the only context inside the village in which money is exchanged for a bowl of ready-prepared *yaqona* (p.38)... *Gunu sedi* is often uproarious, full of high good humour and ridiculous jokes all derived from the way one spends one’s money in buying drinks for other people but never for oneself... Similarly a competitive exchange can take place where a woman for instance, having pledged a bowl to a male cross-cousin who refuses it by paying to have it sent back to her, then adds a further increment to the money given so that she may herself refuse to drink and have the bowl sent back again to him. The competition goes on, each adding 10c or so to the money they have pledged each time they continue to refuse to drink. One of them is bound to accept the bowl in the end – *yaqona* can never be returned to the *tanoa*. Once the sum has risen to $1 or $1.50, or even more if both parties are really flush, one of them signifies surrender by, perhaps, slapping a hand down on the mat in a highly exaggerated version of the clapping of cupped hands that always proceeds one’s acceptance of a bowl of *yaqona*. So a single bowl may wind up fetching $2 to $3 since each party is bound to pay up to the crier the final sum that he or she has named. There is much joking and plotting and giggling and loud laughter, with spontaneous clapping and expressions of thanks from all the onlookers when someone brings off a particular joke, or at the culmination of competitive payments to force the acceptance of a single bowl (p.39).

At the school *bazaar* I attended, *tikina* members selected one of their *heavyweights* or *black-belts* (colloquialisms used for a *grog swiper* capable of consuming vast amounts of *yaqona*) who then visited their *veitabani* colleges to intentionally initiate *gunu sedi*, bringing back the ‘winnings’ to boost their own fundraising coffers and overall tally. Several principals explained the importance of *yaqona* to their fundraising *bazaars*. “If no *yaqona*, people don’t come” (IQ174). Another stated, “we must have *yaqona* to *sevusevu*” (IQ175, also see p.122), a practice also engaged by staff at a semi-rural Hindi school. “We always do a *sevusevu* for big events at the school like the fundraising *bazaar*” stated the *Fijian principal* (IQ176). As noted earlier, the link between *yaqona* and *iTaukei* identity is obvious. This latest comment adds to my argument that *yaqona* comprises an aspect of *Fijian* identity. The importance of *yaqona* to fundraising is best illustrated by a rural principal who stated that typically their school raised an average of $8,000 at their annual *bazaar*. This principal lamented that, “last year we did not have *yaqona* and we only got $182. No one came. We will never do this again” (IQ177). This illustrates the extreme importance of *yaqona* to school fundraising events.

**FACILITATING SCHOOL CURRICULUM ON CULTURE**

Although students do not usually consume the indigenous substance outside of medicinal administration by parents and guardians (see Footnote 38), *yaqona*’s cultural aspects were reported as being included in, and important to the curriculum at five schools (also see p.62). In this fifth example of how *yaqona* facilitates school function, an *iTaukei* Principal at a rural primary school commented—

The *yaqona* is part of our arts and crafts. See [indicating the *bilo* and wood carvings on the sills in the staffroom (Figure 9.2)], we get them [the students] to make artefacts and things. It’s important to do arts that show the culture. *Grog* is important to the school indirectly, like in cultural lessons when the students learn the *sevusevu* and in crafts”. (IQ178)

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76 Between 2004-9 I attended six fundraising *bazaars*. Four at rural schools, one at a semi-urban school and one at an urban school.
A similarity can be drawn here between these classroom–based cultural lessons and my description in Chapter 7 (p.162) of students decorating their dining hall walls with traditional iconology that included tanoa. While the earlier discussion may not have been strictly curriculum based, they were nevertheless done during class time and were demonstrations of cultural identity linked with yaqona.

The learning and presentation of isevusevu as part of cultural studies is relatively common, especially in iTaukei schools, as discussed in Chapter 4 (p.62). For example, Figure 9.3 shows a friend, Maika Balenaivalu (Jnr), then aged 12 and a student at Veiuto Primary School in Suva, presenting a tabua at the opening of his school’s fundraising bazaar (Kikau, 2001:5). Shortly following the taking of this photograph, Maika presented a isevusevu. In 2011, at a yaqona session in New Zealand that included his father and several friends, I produced a copy of the photograph which prompted a lively and lengthy discussion by all present. Maika explained that aspects of the presentation were taught to him both at school and in the home environment. “It was important to me that I do it [the tabua presentation and isevusevu] properly. When I do it properly, I do it for everyone who comes from there [indicating his own vanua and school]”. His father, Maika Balenaivalu (Snr), described how proud he had felt and emphasised that his son had spoken in his own Naitasiri dialect and not the common vosa vakabau tounge. “It shows we have something to pass down to the generations. This shows who we are, that we are Fijians.” Others at the yaqona session reflected on their own school days and the importance to them of presenting or being part of isevusevu at school events. This discussion clearly emphasised cultural identity and a sense of pride that remained many years after the event’s conclusion.
FACILITATING IDENTITY THROUGH CULTURAL EXPRESSION

In the weeks leading up to a bazaar I attended in 2006, I observed male students in cultural studies classes practising the art of isevusevu presentation using the traditional mixing style (with na ibou, a fibrous strainer made from the branch of the vau or Hibiscus tree) (Aporosa, 2008:33-4) and the serving of yaqona. At the subsequent fundraiser I watched emotional parents proudly looking on as their sons put into practice what they had learned. One student’s father explained to me following this event, “When my son does that [the presentation of yaqona to the invited guests], he is us, he is doing it for all us [making a gesture with his hands that indicated those present at the school and the surrounding vanua]. We are proud of him and you can see we are kai Viti”. This, with the Maika Balenaivalu (Jnr)’s discussion above, reiterates the link between the yaqona culture and the teaching of cultural studies as part of school curriculum. Additionally, it reasserts an important theme within this study. Although the act of presenting isevusevu or even the mixing and presentation of yaqona to dignitaries is ‘technically’ an individual pursuit, from a cultural perspective it is considered ‘representative’. This is because it is done on behalf of the entire school, which includes the teachers, the students and their parents, and the vanua of the presenter, should they be connected paternally to an area other than the vanua in which the school is located. This sixth example of yaqona’s use in facilitating school function also reasserts, demonstrates, and confirms the importance of yaqona in furthering cultural identity.

FACILITATING THE PROMOTION OF STAFF UNITY

Yaqona use to create staff unity was frequently mentioned during interviews. In this seventh and final example of the role yaqona plays in facilitating school function, an urban iTaukei principal explained that his staff met habitually at the end of the school week to consume yaqona together–

See, yaqona is the cornerstone of our culture. I use it to get the teachers together. It’s a way we can openly sit and discuss things. When we drink together, I am not the principal, we are all equal and it’s time for us to talk. The staff can relax and talk about the problems of the week. (IQ179)

A rural iTaukei principal added–

The teachers mix [yaqona] every afternoon. I always go to them. When I go, I become a staff member, not the principal. Staff relax and we can discuss the problems. It makes us strong like a team”. (IQ180)

A male iTaukei vice principal at a semi-urban school commented that because his Principal was a woman who did not drink yaqona, staff frequently gathered at his house (within the school compound) at the end of the day to consume the indigenous substance. He stated, “the yaqona washes away the stress… it brings us together. Alcohol can’t do that” (IQ181).

At the end of Chapter 7 I discussed the value of yaqona ‘bringing people together’ and breaking down ethnic separation. Under normal circumstances there is a marked boundary between iTaukei and Fijian socialisation. However this tends to blur in the teaching environment when yaqona is consumed, a situation I have observed in over a dozen schools. What is interesting though is that the dominant culture in the consumption setting tends to influence consumption style (Subramani, 2000:11). For example, at a rural school where iTaukei comprised the majority at the yaqona circle, traditional protocols were clearly embraced by all present including the Fijian teachers. Alternatively, at an urban Hindi school the consumption was vastly more relaxed, with a greater secular feel, lacking structure in seating position and with rarely any cobo (clapping, see Footnote 58). The iTaukei teachers present at this yaqona consumption also reflected this relaxed style. However, later that same night I went with one of the Fijian teachers to an indigenous yaqona circle at a nearby village. Upon arrival he immediately adopted a more formal attitude, observing ‘standard’ iTaukei cultural norms. In contrast, at a semi-urban Hindi school I visited, which comprised mostly Fijian staff, strong indigenous consumption practices were observed which were clearly encouraged by the Fijian principal who presided over the event. Irrespective of the consumption style, what was most obvious at all of the school-based yaqona sessions I attended was the strong sense of cooperation and amicability between ethnically mixed staff members. This
mutuality appeared to transcend the usual racial segregation (Robertson & Sutherland, 2001:78-81; Ratuva, 2002:151-4; Srebrnik, 2008:91) I have witnessed in general society, separation I have also seen in the staff room where teachers tended to congregate ethnically. These observations demonstrate the critical role yaqona plays in facilitating the school function of staff unity.

REFLECTION

In the opening section of this chapter, following an overview of selected themes from previous chapters, it was suggested that, with the exception of yaqona’s link to cultural identity and concomitantly academic achievement, the position of this “cultural keystone species” within the remaining educational environment did not look good. By answering the first part of the final research question, participants have offered new perspectives which argue strongly in support of yaqona and its use within the educational environment. Essentially, yaqona and the culture that accompanies it acts as a beacon, drawing, aiding and encouraging parental and alumni support in furthering the State/Community partnership mandate. Yaqona is then used to reciprocate that support, acting as a recognisable emblem of appreciation. The indigenous substance also acts as a mode of fee payment, a meeting facilitator, and an ‘encourager’ to both the attendance and financial contribution at bazaars – fundraising events that are critical to the survival of most schools in Fiji. Yaqona is also an icon that expresses and cements cultural identity. This yaqona identity juxtaposition is vastly more pronounced with iTaukei, although as discussed earlier and in Chapter 7, glimpses of yaqona-related identity can also be seen in the Fijian ethnicity (p.121-122). Therefore, as is argued in the case of iTaukei, this would suggest that an yaqona/identity juxtaposition also contributes to Fijian academic achievement.

Finally, participant reports indicate yaqona’s use in encouraging staff interracial unity in a nation that has in the past suffered violent ethnic separation (Prasad, 2009:117). When these positive attributes are considered, instead of asking if yaqona plays other positive roles in the school environment, possibly the first part of the final research question should read, how would many schools survive without this indigenous substance? For instance, how would many schools survive if yaqona was banned, eliminating the practice of gunu sedi and limiting fundraising bazaar income?

Admittedly yaqona’s positive role in schools does not specifically address or counter impacts to education delivery and “professional virtues” (Menter, 2009:217,219,225) that participants report result from the over-consumption of the substance on nights prior to teaching. It could equally be argued that many of these positive roles in fact contribute to the disruption of “professional virtues” (Gewirtz, Mahony, Hextall & Cribb, 2009:3) – events such as bazaars and reciprocal appreciation potentially increase yaqona intake and hours spent at the tanoa. This further illustrates the traditional/contemporary tension discussed throughout this thesis which illustrates the complexity that has arisen from the use of yaqona in the education environment. On one hand Fiji has embraced education as part of its ‘tool kit’ for achieving national development and promoting economic growth. Critical to this goal is a teaching structure that encourages motivation and physical and mental alertness and delivers high quality education paralleled with “professional virtues”. This is complemented by a State/Community partnership reliant upon volunteers and altruism to support the delivery of that education. On the other hand, Fiji has a traditional substance that, although strongly linked with cultural expression, identity, reciprocity and school function, also appears to cause cognitive impairment that concomitantly disrupts education delivery and the “professional virtues” of those tasked with aiding the attainment of national development and the promotion of economic growth.

This leads to the last part of the final research question. This will seek to gain understanding about action that could be taken regarding teacher yaqona use and the tension this has created in the contemporary education environment, a complexity that both negatively impacts quality education delivery while also being culturally centric and aiding school function? To aid answering this question, it is first worth considering the two extreme opinions regarding yaqona use:
CONTRASTING OPINIONS

Two contrasting opinions concerning *yaqona* use emerged during this research. Overall, most Fijians support the use of this indigenous substance, although there is a small but growing oppositional voice. This section will explain these two extremes. However, it also demonstrates variances in belief within these two key opposing voices.

PRO-USE

The predominant or popularist view, is held by those who actively embrace the use and practices associated with *yaqona* as part of culture, identity and socio-cultural expression. This is a theme which has been widely explored throughout the study. Many *iTaukei* pro-use advocates tend to be aligned with the Methodist Church. Thomas (1997) obviates this when he explains that daily *yaqona* use is an “expression of pious religious (Methodist) sentiments… reinforce[ing] the explicit identifications between Fijian [*iTaukei*] custom, a respect-structured kinship order, the way of the church, and the kava ceremony” (p.50). Alternatively, in Chapter 7 it was discussed that Fijian *yaqona* users were more likely to be Hindu or Muslim (Fiji Islands Bureau of Statistics, p.7).

During the field research participants were asked their opinions on *yaqona* prohibition. Pro-use respondents tended in the first instance to be reactionary. For example, a male *iTaukei* principal at a rural school began his reply with, “No one can stop us from drinking *yaqona*. People might try to stop us but they can’t because it is part of our culture” (IQ182). An *iTaukei* female teaching at a rural school appeared frustrated when asked this question. She replied, “See, it’s the people looking from the outside that are making a big deal out of it, about us teachers drinking *grog*. Leave us alone. This is our drink, the *kai Viti* drink” (IQ183). In this response she alludes to anti-*yaqona* comments made by New Methodist sect Minister Talatala Vulaono suggesting that those who were critical of, or did not partake of *yaqona*, simply did not understand the wider issues surrounding the indigenous substance and therefore were not ‘true’ Fijians. Such beliefs though are not limited to *iTaukei*.

A female *Fijian* who stated she did not consume *yaqona* believed prohibitions and bans were futile. “They,” referring to anti-*yaqona* advocates, “can’t do much. *Grog* swipers will always drink” (IQ184). An urban male *Fijian* teacher concurred, adding, “No one can stop us. They can’t tell us what to do at night-time, in my time” (IQ185), an issue also pointed out by an urban *iTaukei* principal (IQ186). On the whole though, *iTaukei* comments tended to lean toward culture as the reason prohibition should not be considered or would fail, whereas *Fijians* were more likely to point to personal time and freedom of choice.

Another female *iTaukei*, this time from an urban school stated, “This is hard. See, it doesn’t matter what those people say, because we are part of the community, so we have to be there, we have to *sevusevu*, and that means you have to drink. To tell us to stop is too easy” (IQ187). In her response this informant could not conceive of a *yaqona* ban. She simply responded that other factors, such as cultural practices and hosting obligations would overshadow and outweigh the possibility of *yaqona* prohibition. The MoE in their *Learning Together* report also acknowledge this situation stating, “Teachers are expected to participate in and conform to the host community. This places an extra burden on teachers, as they are effectively on duty 24 hours a day, and their actions are constantly under the scrutiny of the community” (Tavola, 2000:169).

A female *iTaukei* principal pointed out a contradiction—

There is lots of things that is causing under-achievement, not just *grog*. Just like plenty of countries, there are different things. They can’t just blame the *grog*. It’s double standard coz plenty of white teachers drink alcohol every night and go to the classroom, but that is okay. Too many people are talking about us *grog* drinkers. See, the *grog* is sacred. You can’t blame the *grog*. (IQ188)

This informant is not alone in highlighting this incongruity. D’Abbs (1995) reports a similar concern among Aboriginal *kava* drinkers following a ban on the substances in the Northern Territories. “Why is it, men at Yirrkala ask rhetorically, that governments are so willing to impose controls on the sale and supply of kava,
which we all know is drunk mainly by Aboriginals, when they are apparently incapable of imposing anything like comparable restrictions on alcohol sales?” (p.180). D’Abbs makes a good point. However, when such an inconsistency is highlighted by iTauei, who also conceive of the substance as part of and an expression of their cultural identity and life-ways, the contradiction gains an added level of potency and complexity.

These responses suggest that most informants believe the indigenous substance is so immersed, and is of such great importance to cultural systems, that many found it hard to conceive a life without it. This can be further illustrated by an encounter I had while visiting a school. During a yaqona session in a staffroom after school hours, I left the room at one stage and returned a few minutes later to notice a sticker on the staffroom door warning that smoking, yaqona and alcohol consumption were “prohibited on these premises” (Figure 9.4). I later learned this had been issued by the MoE around 1996 or 1997, and had been on the door since. As we were consuming yaqona at the time, I jokingly drew the teachers’ attention to it. One teacher commented, “Sa dina [an expression of surprise]! First time for me to see [that] aye; I been here four years now [laughs]” (IQ188). Another stated, “no, no smoke and hot-stuff [referring to alcohol] in here, but grog is different” (IQ189). This teacher then explained that the top section of the sticker, which had originally displayed the word “Prohibited”, had been removed. Therefore these activities were now permissible, which led to quite a bit of hilarity. These comments were stated as though any references prohibiting yaqona consumption in the staffroom was a ‘misprint’ on the sticker, something that could be ignored and/or justified. Such reactions reiterate the importance of the indigenous substance to the culture so much so that many cannot conceive of life (including aspects of socialisation within the school) without it.

This is in contrast to a growing oppositional voice who is gaining momentum. Collectively I have termed this opposition group ‘the anti-yaqona alliance’. They comprise two positions which I have further designated the ‘sacred’ and the ‘secular’.

‘SACRED’
The ‘sacred’ are those who consider yaqona and its associated practices to be evil and demonic, believing its use comprises communion with the traditional gods and is therefore anti-Christian (Newlands, 2004:2; Tomlinson, 2007:1065). As discussed in Chapters 2 and 5, early missionaries, colonials and modernists held similar concerns although they failed to ban yaqona due to its crucial role in ceremony and cultural practice.
Many of the contemporaries who maintain these beliefs tend to be affiliated with Pentecostal congregations such as the Assemblies of God, the Seventh-day Adventists and splinter churches including New Methodists and All Nations (Blocker et al, 2003:345; Tomlinson, 2007:1068; Titus, 2009:8; Tomlinson, 2009:128).77

Potentially the most vocal opponent of yaqona in recent times has been Talatala Atunaisa Vulaono, co-founder of the splinter New Methodist Church (Fiji Times, 1999:13; Titus, 2009:8). In 2001 Vulaono (p.1) allegedly received a “prophetic... revelation for Fiji and the World [being ‘told’] that Kava / Yaqona drinking is used by Satan... [to disrupt] the development, education, living standards, knowledge, wisdom and maturity of all people”. The call for yaqona prohibition by New Methodist has become one of its defining points as a movement, with its founders suggesting, “it is a hold-over from pre-Christian religion and not from God” (Titus, 2009:8). In 2008 Vulaono reasserted his beliefs in two articles published in the Fiji Times (2008b:2; 2008c:2). I was in Fiji at this time and heard a great deal of discussion at village-based yaqona sessions concerning Vulaono’s statements, especially from those who attended the mainstream Methodist Church. Reactions ranged from light-hearted jokes and dismissals of his views to heated debate claiming Vulaono had rejected his culture (“he is not a true kai Vit”), through to suggestions that it was he who had been deceived by Satan. Criticism of Vulaono by Methodists is not surprising considering many from this mainstream denomination believe a connection exists between yaqona and the Christian God.

As I discussed in Chapter 3, many Pasifikanans believe a union exists between kava and Christianity. Ryle (2010), for instance, states, “Pacific theologians have related the kava ceremony to the Christian Eucharist,... [paralleling this with] themes of self-sacrifice, leadership and service” (p.19; also see p.20-15). In the case of Fiji, he adds that many iTaukei liken images from Christ’s Last Supper with servitude within the yaqona circle. Toran (1988) furthers Ryle’s comments, suggesting Leonardo da Vinci’s tapestry of The Last Supper “evokes the image of a group of clan chiefs [drinking yaqona] with the paramount [chief Jesus] at their centre” – the ‘centre’ meaning icake (in front of the tanoa, at the top, in the high position) and therefore symbolising an act of worship (p.709). The tapestry image and symbolism, she argues, is “a material manifestation of ‘the Fijian way’” (p.696). Such imagery is considered to symbolise ‘Fijian-ness’, explaining why teacher participants such as the critic above (IQ183) engaged in heated debate concerning Vulaono’s comments – beliefs deemed to amount to a rejection of Vulaono’s iTaukei identity and ‘Fijian-ness’ (Aporosa, 2011b:7-9).

Vulaono’s anti-yaqona message created a further stir when his brother Esala Teleni, the Commissioner of Police and a New Methodist, announced at a Police religious crusade the institution of a ban on yaqona consumption by on-duty officers78 and those living in Police accommodation (Fiji Times, 2008d:18; 2009b:16, Delaivoni, 2009:3), and the taking of yaqona overseas by officers on foreign deployment (Valou, 2009:3). Many I discussed this issue with were concerned regarding the real motive behind the ban. Although Teleni stated this was to aid “professional and best appearance (and maligning) the picture of a disciplined force” (Fiji, 2009a:18), most of his messages were delivered at religious crusades where he “challenged those who gathered... to quit drinking kava, the traditional drink, as it is not ‘right’” (Delaivoni, 2009:3). Additionally he singled out and warned Vulaono reasserted his beliefs in two articles published in the Fiji Times (2008b:2; 2008c:2). I was in Fiji at this time and heard a great deal of discussion at village-based yaqona sessions concerning Vulaono’s statements, especially from those who attended the mainstream Methodist Church. Reactions ranged from light-hearted jokes and dismissals of his views to heated debate claiming Vulaono had rejected his culture (“he is not a true kai Vit”), through to suggestions that it was he who had been deceived by Satan. Criticism of Vulaono by Methodists is not surprising considering many from this mainstream denomination believe a connection exists between yaqona and the Christian God.

77 In a recent email discussion with former University of the South Pacific anthropologist Dr. Lynda Newland (who specialises in new Christian movements in Fiji), we discussed yaqona and Pentecostal Churches. She commented that although these groups ban the “cultural keystone species”, “this doesn’t stop them from growing the stuff – just drinking it, and in some places, a cup for vakaturaga sake [indicating isevusevu]” (pers.comm, 2012, June 6).

78 On-duty yaqona consumption by members of the Fijian Police is not uncommon. In 2009 I sat with a group in Suva that included four on-duty, in uniform, night-shift constables, consuming yaqona until the early hours. One was tasked with monitoring the radio and twice during the night the four hurriedly left the room and attended emergency jobs. On several occasions during the night they joked about hiding their patrol car at the rear of the building we were drinking in so “the boss can’t see”. There are times however where “officers [are] often offered yaqona in the line of duty.” (Fiji Times, 2005:2; also see Baba, 1996:2). Abramson (2009:269) explains such an occasion where “police need to sit with the chief and drink yaqona under usual ritual conditions if they are to go about their business in the koro[village].” And, even then, business with the suspect will be ritually mediated and necessarily shared with the chief, his herald, and a good percentage of the village men folk”. Similarly, at a large school fundraising bazaar attended, isevevu was presented to Police who attended as part of crowd control and security duties. The isevevu was received and acknowledged by one of the party and all consumed several bilo’s as a culturally appropriate response.

79 In September 2009 the Fiji Times reported that six officers were “sacked... because they had acted in defiance to [the] directive issued two months ago” (Ralogaivau, 2009:4).
His comments were interpreted, for right or wrong by those I discussed the issue with, as being motivated primarily by his New Methodist-influenced beliefs, as opposed to issues concerned with best practice and professionalism. In August 2010 Teleni handed in his resignation under a cloud of suspicion. A Government spokesperson “acknowledge[d] there’s been speculation surrounding the Police Commissioner’s role... [but] it was Commodore Teleni’s own decision to resign” (Radio New Zealand International, 2010:n/a). Admittedly we will probably never know the full story, however “mandatory Christian worshipping and praying came to a stop at police stations” following Teleni’s resignation (Indian Weekender, 2010, n/a). Additionally, a police source in Fiji told me *yaqona* consumption had resumed in police accommodation and officers on foreign deployment were again taking the substance with them overseas. This suggests that concerns regarding Teleni’s anti-*yaqona* mandate appear to have manifested at higher levels than the village *yaqona* circle.

In another situation illustrating ‘sacred’ anti-*yaqona* practice, Newlands (2004:8-9,12) discusses village-based friction and division that resulted when visiting members from a ‘sacred’ anti-*yaqona* Christian group refused to partake in *isevusevu* and consume *yaqona*. This was interpreted by the host villagers as a rejection of culture, the *vanua* and most importantly, local chiefly authority. Thomas (1997) adds to this theme, describing a *Seventh-day Adventist* member seated at the periphery of a *yaqona* circle drinking water during his field research. After briefly mentioning this, he follows by detailing the importance of *yaqona* to “tradition, values,... social relations”, chiefly acknowledgement and “hierarchical order” (p.50). He asked, “How was it possible for people [such as this Adventist] to take foreign religious prohibitions so seriously and eschew these crucial cultural values?” (p.50). In asking this, Thomas queries how an *iTaukei* could renounce fundamentally entrenched cultural values and respect-based submission observations. He follows by arguing that the act of renunciation amounted to the challenging of chiefly authority and the rejection of “the ‘official’ church” (Methodist) itself, an act that leads to village friction and potentially self-imposed ostracism (p.51). A key point from Newland and Thomas’s work is that those who reject *yaqona* consumption, and especially the cultural practices surrounding it, are seen by pro-*yaqona* consumers, was his commitment to his beliefs without consuming *yaqona*. It could be argued that this ‘sacred’ member simply ‘played the game’ in order to be accepted, but I did not get that impression. He was a personable individual, although what set him apart while, simultaneously unifying him to the *yaqona* consumers, was his commitment to his beliefs without appearing to judge those consuming the indigenous substance. By “voicing his approval of the proceedings” he acknowledged cultural values and authority so, together with being an active member of the community, the non-consumption of *yaqona* was considered a minor matter. I would go further and suggest that his actions and words of cultural affirmation together with his unwavering commitment to his own beliefs was actually considered a strength of character, which in turn was rewarded with equal respect by those present.

In a similar manner to *iTaukei*, there are also ‘sacred’ members within the *Fijian* community. As discussed in Chapter 7 (p.121), the consumption of *yaqona* by *Fijians* is a recently acquired practice and still frowned upon by...
some. Miller (2008:370) states, “kava...[is] usually associated with ritual pollution in Hindu theology”. I would argue though that Hinduism is a little more relaxed regarding yaqona consumption than Miller suggests. For example, 78% of the Fijian community record themselves as Hindu (Fiji Islands Bureau of Statistics, p.7) although “significantly more... Fijians consume kava... compared with [iTaukei]” (Schultz et al., 2007:180). Additionally, a majority of my Fijian friends and teachers identify as Hindu and most have ‘healthy’ yaqona appetites, further implying a vastly more relaxed approach when compared with their iTaukei ‘sacred’ peers. A Fijian teacher who I know is Hindu and does not consume yaqona admitted during an interview, “Grog causes problems, grog makes teachers lazy, villagers don’t go to the farm, it makes family problems, but you can never stop it. This is Fiji and grog is part of Fiji” (IQ190). Although the ‘sacreds’ may be outnumbered by those who enthusiastically embrace yaqona use and consumption as part of culture and practice, they are not alone. A second group, also comprising the anti-yaqona alliance, are those I have termed the ‘seculars’.

‘SECULAR’

‘Secular’ adherents are those who hold to varying degrees of yaqona renunciation for non-religious reasons. They range from ‘secular fundamentalists’ who reject yaqona completely in the manner of the ‘sacred’ through to a more moderate grouping who partake of the indigenous substance only on special occasions such as funerals, weddings, high-level cultural events (chiefly installations) and business transactions requiring cultural affirmation due to the involvement of the vanua. What tends to solidify the ‘secular’ group is their concern regarding yaqona’s impacts on productivity and socio-cultural disruption. Although this study does not discuss the latter (see Aporosa, 2008:52 for more on this theme), yaqona and impacts on productivity have been discussed extensively. In Chapter 5 it was explained that such concerns are common, with the primary medium for discussion being the Fijian media. Although plentiful and frequent, such comment tends to be anecdotal, as focused research to date has been limited to my Master’s study and the 2007 USP study (see p.75) which is still underway. I have several friends in the Fijian media who believe that much of the debate on this subject is driven by ‘secular’ anti-yaqona ‘evangelists’ within several key organisations or solicited by ‘sacred’ journalists seeking an opportunity to push a personal agenda. I have had a firsthand experience with the latter to illustrate this.

In December 2008 I presented a summary of my Master’s findings at The Pacific History Conference held at The University of the South Pacific in Suva. Although I stated on numerous occasions throughout my presentation the need to balance the cultural importance of yaqona against educational impacts, a Fiji Times reporter focused on a single comment and quoted me out of context in a front page article the following day. Kava Abuse: Academic Blames Poor Results on Teachers (Ratubalavu, 2008:1) made no reference to culture or its importance to yaqona practice and resulted in me having to present several matanigasau (culturally appropriate apologies accompanied by yaqona) to groups who had been offended by my ‘alleged’ opinion. I followed this up with a complaint to the editor of the Times, including reference to the incorrect spelling of my surname within the article. The editor suggested that the reporter was anti-yaqona and attended a religious organisation that advocated yaqona prohibition. Further, this reporter’s denomination had been holding their annual conference in Suva at the time the article was published and it was believed the journalist had used an isolated comment from my presentation to advance the beliefs of her faith. I did not discuss the issue with the journalist and therefore the comments of the editor are open to conjecture, but by way of an apology the Fiji Times invited me to rebut the Kava Abuse:... article in a two-page weekend special (Aporosa, 2008a:15-17).

In this case the reporter was iTaukei, although such narrow rhetoric is also authored by Fijian journalists. Monika Singh’s (2007) article The Good and Bad of Kava is an example of this. I would argue her lengthy piece implies mostly bad and very little good and is supported by judgemental, unsubstantiated, emotive language such as “people have crossed the line between traditional use and abuse... concerns have been raised... but these are in vain... people are abusing it [yaqona]... Kava is mostly abused by people during their traditional functions... [and] Many men are... addicted to kava” (p.7). These comments were drawn from a very small section near the beginning of the article, and are typical of what followed. Although she is critical of iTaukei, her piece is clearly not ethnically singular, asserting “Indians are drinking kava at almost every function...
Hindus will celebrate Shri Krishan Janmashtami (birthday celebration for Lord Krishna) this week and during this time men can be seen sitting around the grog basin after the traditional puja” (p.7). During a conversation with two journalist friends, we discussed Singh’s article together with Kava Abuse: Academic Blames Poor Results on Teachers. One stated, “a lot of [journalistic] standard [in Fiji] is poor. People say what they want, push their own thing, and no one checks, and it gets published”.

REFLECTION
Two distinct and opposing voices have emerged. The ‘sacred’ and extremist ‘secular’ opinion seeks the complete abolition of yaqona while the moderate ‘secular’ advocates situational bans. Alternatively those at the other end of the spectrum, the pro-use subscribers, deem such action as a threat to their cultural expression, practices and identity, and are adamant they will not be stopped from consuming their indigenous substance. The feeling of this latter group can be best summarised by paraphrasing Thomas’s rhetorical question (regarding the Adventist): How is it possible for us to even consider prohibitions as this would seriously eschew crucial cultural values? While it could be argued that this pro-yaqona view is as militant as the ‘sacred’ opinion, this is not the case, as even those from within the anti-yaqona league have an understanding of the complexities at stake here. Several examples of this can be found in the comments of the participants mentioned earlier (IQ184,190). In another example, the “President of the Fiji employers Federation, Thomas Raju, said [that although] yaqona was a major factor in loss of productivity, both during working hours and because of its ‘hangover’ effects... employers were very conscious of the tradition behind yaqona drinking and the fact that banning it may offend some people” (Baba, 1996:2). This draws the study to a critical point. Where to from here considering all of the complexities? This will be discussed following a brief revisit to the methodological influences to this study.

ADDRESSING THE TRADITIONAL/CONTEMPORARY TENSION
In Chapter 2 I discussed the evolving ideology of post-development. This approach seeks the elimination of external hegemonic systems through locally driven processes informed by culture, traditional knowledge and self-determination. In Chapter 6 I explained Vanua Research and its application and use in investigating the research questions within this study. This led to an explanation of my own post-yaqona consumption experience as well as my role as a participating-observer. I concluded this by explaining that although some would argue my ‘insider/outsider’ position allowed me a platform for personal comment, this was not an approach I intended to take. Instead, local voices and experiences have been relied upon to investigate the final part of the last research question concerning the action that should be taken regarding teacher yaqona use in consideration of the traditional/contemporary tension that both negatively impacts quality education delivery while also being culturally centric and aiding school function.

To do this, participants were asked during the field research what, if anything, should happen if tests suggested the consumption of yaqona the previous night was impairing cognition and negatively impacting the delivery of quality education to students. The responses of teachers working at the education coal-face will now be presented.

LOCAL RESPONSES TO A LOCAL ISSUE
During the field research, 37 participants had explained to them the purpose of the psychometric assessments and then were asked what they proposed should happen if the results suggested yaqona consumption impaired cognitive function (which then impacted a teacher’s ability to deliver quality education to their students). Almost half of these informants initially responded that no matter the results of the cognitive tests or directives from the Public Service Commission (PSC) limiting yaqona consumption, there is very little that could be done. As a reminder, it was explained in Chapter 4 that the PSC, in a 2007 circular, warned that “Government employees [which include teachers] are strictly prohibited from drinking yaqona during office hours” (Appendix D). A female iTaukei yaqona consumer responded, “teachers are like all Fijians who drink grog, they will always drink, no one will stop us” (IQ191). Another female, this time Fijian, stated, “you can’t teach the old cat new tracks, so you can’t teach a Grog Swiper to stop swiping grog” (IQ192). Other comments, one from a iTaukei female and the second from an iTaukei male, both yaqona consumers, suggested, “This is hard. See, it doesn’t matter what the tests find, because we are part of the community, so we have to be there [at functions, as hosts,
Participants were also asked if further regulatory measures would be of any value in curbing heavy yaqona consumption use or encouraging alternative drinking practices. An iTaukei male who consumes yaqona argued, “that would be a waste of time, pointless, coz no one listens to the one [indicating the PSC memo] now.” (IQ196) Seven teachers commented that a MoE directive restricting yaqona consumption to the weekend would be valuable (IQ197-204), however some of these same participants immediately recanted this. For example, an iTaukei yaqona drinking female commenced by arguing, “Maybe the Ministry [of Education] could make a law”, then, as though she had had an epiphany, a realisation as to the futility of her suggestion, she began laughing and followed with, “okay, the other one [indicating the PSC memo] don’t work, so nothing will work” (IQ205). This informant was not alone in their belief that “True, laws do not work” (IQ206,207) “because grog is part of us, is part of Fiji” (IQ208). Two further participants were adamant that the Government “has no right” (a male iTaukei yaqona consumer, IQ209) to legislate what “we do in our own hours, at the night-time. I can drink grog in my house and no one can stop me” (yaqona-drinking male Fijian, IQ210). This is also a theme acknowledged and discussed in my Master’s research (Aporosa, 2008:106-7).

A second Master’s research theme resurfaced when this latest question was asked. This theme was regulatory measures as an aid to altering consumption practices, I theme I discussed in Chapter 5. Several participants felt that some within the MoE contradicted their own yaqona policy and therefore perpetuated heavy consumption. For instance, a Fijian male who consumes yaqona commented–

They [MoE] tell us not to drink in work time but then I go to the Ministry and I mix [aqueous yaqona] with one Senior Education Officer in the office. See, we are Fijians, grog is part of the culture. No grog, no culture. Grog is like the lead actor in a film. (IQ211).

A non-yaqona drinking Fijian female HoD argued that although the MoE may stipulate that yaqona is not to be consumed during working hours, they equally recognise the importance of cultural practices such as the isevusevu including the presentation and consumption of the indigenous substance. Another stated–

The Ministry does not allow grog to be mixed during working hours, yet it is happening. When the officials [from the MoE] come, we do a sevusevu. We must do this. You [indicating me the researcher] understand. And they drink and then they go away. See, the Ministry says no but they come and drink coz they know the culture. (IQ212)

As such, some Senior Education Officer’s (SEO) consume the traditional substance as part of that cultural observation and this has lent itself to the creation of ‘mixed messages’. A yaqona-consuming iTaukei male principal furthered this line of discussion–

The Minister of Education can make some rules, like no grog in the quarters of teachers. But they cannot say ‘no grog in the private house’. They [the MoE] can say no grog in the [school] compound, only for special occasions, but the problem is our lifestyle, our culture. Even when they say you can only drink on special occasions, what is a special occasion? You know kai Viti interpretation, we can always make one [meaning ‘occasion’]. See, when the guest comes, even that one from the Ministry, that is one occasion, so we sevu and mix the grog... Kai Viti life has lots of occasions. So how can the Ministry say we can only drink on the special occasion? (IQ213)

Interpretation and the creation of ‘occasion’ was a theme also alluded to by a research participant during my Master’s research. “We Fijians, when it is about grog, give us an inch, we take a mile” (Aporosa, 2008:92). The informant went on to suggest that subjective yaqona consumption would continue until defined boundaries were established which would in turn clear up ambiguities.

Since these comments were obtained, the MoE (2010) has released its own Policy in Drugs and Substance Abuse in Schools, which was discussed at the end of Chapter 4. As a reminder, Point 2.2 in that policy states,
“The MoE makes allowance for kava only to be used at ceremonial purposes [sic] in moderate amounts”. As the two previous participants suggest, “special occasions” is a broad term that can also be interpreted as “ceremonial purposes”. This, with the new MoE policy, was discussed with a Senior Education Officer (SEO) who frequently travels to schools as part of their role. The SEO commented that since the introduction of this policy they had noted a change to the isevusevu practice. While in the past it was not uncommon for aqueous yaqona to be mixed and consumed following the presentation of waka (raw yaqona root) by the SEO, “now sevusevu ga, sega na lose” (IQ214) – literally meaning the cultural presentation was still done although it now lacked the consumption aspect. This was a suggestion made in my Master’s study and discussed in Chapter 5 (p.69). However, this informant then added, “Poy! After [school hours], they try n’ kill you. Nothing changed (laughs)”, indicating that once the school day had finished heavy yaqona consumption ensued as part of the teacher’s responsibility in hosting SOEs. The participant qualified this by stating this type of heavy consumption was more common in rural areas where it was also suggested the policy had not really made much difference. “Some [teachers, he argued] still drink in the day. They just more careful now.”

The SEO was asked for their interpretation of the policy, specifically regarding what appeared to be an inconsistency between Point 2.2, which allowed moderate yaqona use for “ceremonial purposes”, and Point 2.5, which “strictly prohibited teachers... from drinking yaqona during office hours... on [school] premises”. He stated that although they had not received any specific instructions on the policy, he did not believe a contradiction existed. “Ceremonial purposes” he suggested, covered occasions such as school fundraising bazaars, end of year student graduation services and times when a chiefly or high-ranking (as in Government) guest visited a school. “Strictly prohibited” events were considered those that lacked a large scale or required cultural formalities such as chiefly acknowledgements. When it was pointed out that the policy states yaqona consumption is “strictly prohibited... on [school] premises”, despite the SOE having indicated this continued at many campuses after hours in the school hall, his response was, “see, it is ok because it is after hours”. Then, as if hearing my question afresh, the SOE added, Aww karaik [slang, in this case indicating understanding], (laughs), see, you can never stop the grog. Even after the policy, it [yaqona consumption within the campus and during schools hours] is still happening all over the place. It will always be like that. That is why it called the wainivanua [‘water infused manifestation of the land, people and culture’].

The last portion of the comment yet again alludes to the traditional substance’s link with cultural form and practice. Overall though, the SOE’s comments highlight the complexities of trying to change a culturally embedded practice (isevusevu and gunu yaqona) with a contemporary approach (policy). In attempting to create ‘black and white’ instruction and direction while simultaneously considering cultural importance, this has done little more than produce subjective ‘gray areas’ open to interpretation dependent on best practice at the time. This is simply a smaller manifestation of the overall theme of this study.

REFLECTION
Overall, the present discussion suggests that most participants believe that irrespective of the results of the cognitive tests or regulatory measures aimed at curbing yaqona consumption levels to mitigating impacts to education delivery, little will change. This is primarily because yaqona is intertwined with cultural practice and identity. For many iTaukei and some Fijians, to remove or restrict yaqona would restrict or remove aspects of culture.

This ideology has been a recurrent theme throughout the research. Additionally, the perceived futility in restricting or prohibiting yaqona, as expressed, further highlights the complexities involved in the traditional/contemporary tension that has unfolded concerning the culture of yaqona with that of education and the developmental/productivity process.

80 As discussed in Chapter 6 (p.97), this is an example of ‘deductive reasoning’, an interview technique utilised throughout the field research to aid in ‘digging’ below the subconscious and doxic thinking.
The complexity of this tension can also be seen in the new MOE *yaqona* policy. On one hand the MoE allows *yaqona* consumption within the school environment for “ceremonial purposes” while simultaneously “strictly prohibiting” on [school premises” to counter impacts to productivity. This perceived indecision or incongruence suggests the MoE are also struggling with exactly how to manage or deal with this culturally intertwined and sensitive situation. Although the SEO cited above did not initially identify an inconsistency, once this was recognised, they justified any such “strictly prohibited” *yaqona* use by pointing to culture – again highlighting the nature of this uniquely sensitive issue.

It is one that defies a simplistic approach or answer. So far, solutions to restricting *yaqona* consumption to limit suggested impacts to education delivery have ranged from prohibition to “No one can stop us from drinking…” (IQ182). Although prohibition appears to lack favour, harm reduction options are considered.

**PROHIBITION AND THE ROAD TO HARM REDUCTION**

The success of prohibition in eliminating substance use is extremely limited. According to Deitch (2003), America’s *Noble Experiment* – the alcohol prohibition of 1920–1933 – was a “miserable failure” (p.141). Rather than eliminating alcohol use, it drove consumption underground and created an organised criminal network that reaped massive profits. Deitch concluded that “Instead of uplifting everyone’s moral fiber, as it professed to do, it destroyed moral and ethical values, created disdain for the authorities, and wrecked the economy.”

Goode (1993) is just as unforgiving, arguing, “Prohibition was a catastrophic failure… [and that] while alcohol consumption did decline during Prohibition, the decline was fairly modest” (p.170).

Historically, most colonially initiated *kava* prohibition in the South Pacific have mirrored the failure of the *Noble Experiment*. The only exception to this was Kosrae, Rarotonga and Tahiti as discussed in Chapter 5. More recently, situational prohibitions in the form of directives and policies (such as the PSC and MoE bans discussed above) have also been ineffective. Deitch (2003) makes an interesting point regarding the “miserable failure” of the *Noble Experiment* which has application to the *yaqona* situation. Prohibition, he argues, fails because it tends to be based on the “moral convictions” of a few who attempt to impose these on ‘the many’, sentiments that are frequently narrow and overlook wider issues (p. 141). ‘Sacred’ and extremist ‘secular’ calls for prohibition appear to illustrate this. These advocates comprise a minority voice when compared with the moderate ‘secular’ and pro-use subscribers. Further, as participants have repeatedly suggested, *yaqona*’s union with cultural expression, practice and identity is the critical inhibitor to such prohibition. In the case of Deitch’s argument, this is the critical ‘wider issue’ frequently overlooked by the ‘sacred’ and extremist ‘secular’ advocates.

A concern with prohibition, and one that also has relevance to the Fijian setting, is ‘substance switch’ (Goode, 2003:171). Experiences following the introduction of the *Kava Management Act 1998* aimed at eliminating *kava* use among Northern Territories (Australia) Aborigines exemplify this. Academics describe the influences that led to the introduction of this *Act*, and more recently the Australia-wide *Federal Kava Ban*. Specifically concerning the theme of ‘substance switch’, O’Reilly *et al.* (2005:87-8) state that “the ban increased alcohol consumption together with marijuana usage in all communities”.

81 The British Medical Journal (1988:1801) reports that kava was initially introduced to the Australian Aboriginal population in the Northern Territories area in the late 1980s with the aim of curbing alcoholism and a raft of anti-social behaviours, a measure that at the time was deemed highly successful. Hunter & D’Abbs (2003:333) report that “kava offered the pleasures of mild intoxication, however it did not lead to the patterns of violence and destruction that were tearing Australian indigenous communities apart…” Having failed to halt the introduction of ‘white man’s poison’ [alcohol], they hoped that kava might provide a less destructive alternative: in modern drug policy parlance, a ‘harm reduction’ measure… No sooner had it been introduced than controversy erupted. Anecdotal and often sensational reports circulated about all-night binges, with ensuing detriment to families’ health, rising absenteeism and even breakdowns in essential community services.” Over the following twenty years the N.T. Government monitored this use of kava (Trevena-Vernon, 2001:48) resulting in further reports describing a link between excessive use and decreased levels of productivity (Alexander, Watson & Fleming, 1987:2; Trevena-Vernon, 2001:48). This prompted the introduction of the *Kava Management Act* in May 1998 aimed at controlling these problems through regulated *kava* trading systems (Trevena-Vernon, 2001:48). A 2007 ABC News article reported these controls failed to limit availability. “A new kind of illegal kava trade was created by the licensing system itself... kava was being transported into the NT illegally from southern and eastern states.” To restrict cross border *kava* importation, the Australian Government instituted what has become known as the 2007 *Federal Kava Ban* through an amendment to the *Customs (Prohibited Imports) Regulations 1990* (ABC Radio Australia, 2007:n/a; DoH&A, 2011:n/a). Singh (2007:7) reported, “In June [2007], Australia effectively banned commercial kava imports, only permitting it into the country for medical or scientific purposes or in small amounts from incoming passengers”.

DOCTORAL THESIS

CHAPTER NINE: Use Moderation

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To address the increase in alcohol usage, the Federal Government introduced a ban on this substance in these communities in 2007 (OIPC, 2009:n/a). This then led to the creation of a profitable black market selling illegal alcohol (ABC News, 2007; Pinomi, 2008:15) together with further increases in cannabis use. One commentator asserted, “simple bans are not dealing with the problem” (Bardon, 2009:n/a). In 2007 the Federal Government also instituted an Australia wide kava ban restricting imports of the indigenous substance to two kilograms per person82. This must be carried into the country on the person and cannot be shipped or posted. In early 2008 Australian Pasifikan communities began reporting an increase in violence levels (Pinomi, 2008:15): “What is now happening is alcohol has become the substitute for kava; kava’s promotion of a gentle sense of contentment is being replaced with the violence so often associated with excessive drinking.” As such, there is express concern regarding the possibility of ‘substance switch’ resulting from a yaqona ban in Fiji.

Fijians have a common saying concerning alcohol, one that originated from the Church pulpit, was picked up on by school career advisors, and has since become a catch-cry – “Ni ra gunu yaqona ni valagi sivia na kai Viti, e ra dau vakarautaka e levu na itovo kaukauwa, ka laki tini ena veivala”. This literally means, “When iTaukei drink too much alcohol, they tend to show actions which are violent and abusive and leads to confrontation (fights)”. In New Zealand this is often paraphrased, “Mix the coconut and the hotstuff and you get a big bang”; meaning, when Pacific Islanders drink alcohol (hotstuff), fights start. Violence as a result of alcohol consumption is a reason why, in the circles I mix in, its use is discouraged and yaqona, with its calming unifying effects, is encouraged.

In a 2008 ABC News (Australia) documentary entitled Kava Culture – Vanuatu, the former Vanuanuan Minister of Finance and Economic Management (Dec. 2010 to June 2011), made an interesting comment regarding kava and socio-cultural harmony. “Since we have had lots of kava drinking we have less problems. Before, drunkenness was a problem – people drink alcohol, they fight. With kava we don’t have any more of this problem” (7 min. 12 sec.). The reporter then explained that nakamal (kava bars) in Vanuatu were a post-1980 independence creation, a “product of social engineering designed to lower the crime rate. [This included] prohibitive duty...[being] slapped on alcohol making kava the affordable brew of choice” (7 min. 25 sec.). Kava expert Dr. Vincent Lebot added, “If alcohol was cheaper, readily available, we would have more crimes in Port Vila than we do have today...Because of kava I think it is maintaining society in a harmonious manner” (ABC News, 2008:7 min. 45 sec.). Additionally, in a recent TVNZ documentary (Lumsden, 2012:6min.), former rugby league team captain Rubin Wiki, nicknamed the King of Kava, explained his motives behind introducing kava to his fellow players in an attempt to “change the culture”. He stated, “there was a lot of bad publicity... due to guys going out after the game and getting caught in the [news]papers due to much alcohol. I wanted to change [this].”

The socio-cultural implications that are likely to result from substance switch, especially if regulatory measures as sought by ‘sacred’ and extremist ‘secular’ advocates were successful, must be considered. Experiences learned from prohibition would suggest that the elimination of yaqona would also be a “miserable failure”. Clandestine consumption is already occurring as a result of the PSC and MoE regulations. This would no doubt increase. A black market yaqona economy would doubtlessly develop, one that would be very difficult to police due to ideal growing conditions, the sparseness of the island nation and the remoteness of many villages. Substance switch (Goode, 2003:171) is also likely with increased alcohol use, which in turn would cause a surge in violence levels (see Footnote 81). Mental health providers in Fiji have been reporting for some time their concerns over links between cannabis use and “biopsychosocial” impacts (Norere, 2007:8).

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82 In 2007 the Australian Health Minister Tony Abbot clarified the Federal Kava Ban stating that “adults will still be allowed to bring up to two kilograms of the substance into Australia in recognition of its cultural importance to Pacific Islanders.” (ABC Radio, 2007:n/a). The Australian Customs Department appears to be actively enforcing the ban, evidenced by the arrest of a “young New Zealand man... for importing nearly 20kg of kava into Australia’s Northern Territory [in August 2011]... caught by... drug sniffer dog... in Arnhem Land.... His luggage contained 19kg of kava separated into 18 different bags. The street value of the drugs was estimated at $19,000.” (Stuff.co.nz., 2011:n/a). The 2007 Federal Kava Ban prompted the formation of The Australian Kava Movement (AKM). This Australian-based lobby group, which includes several high profile academics (including former Massey University Professor Staleke Finau), are seeking to overturn the ban arguing it “is not a health and medicinal issue but political and commercial; which is a breach of the UN Charters on Global Democracy, Human Rights and Indigenous Peoples” (AKM, 2011:n/a). Further, the AKM argue the Federal Kava Ban is hegemony veiled in political correctness. Although the Australian Government suggested they respect the “cultural importance to Pacific Islanders” by allowing them to “bring up to two kilograms of the substance into Australia”, this has been interpreted to mean, ‘we recognise the cultural importance of kava to Pacific Islanders but will dictate how they express that culture, and that will be in quantities of two kilograms’. Therefore the ban is believed to limit the cultural expression and ceremonies that mark and bless the life-events of Pacific Islanders living in Australia.
switch resulting from prohibition would potentially increase cannabis use and psychological impacts. Most importantly though, such prohibition would result in massive cultural dislocation and upheaval, a theme repeatedly alluded to by the research participants.

Gray & Wilkes (2011) make an interesting comment that hints at post-development, an approach very different to that of prohibition. They state, “blanket bans such as those imposed on remote communities [by the Australian Federal Government] are counterproductive. They take away Indigenous initiative, leading to resentment and exacerbation of existing social problems, both of which undermine willingness to work cooperatively with outsiders to address such problems” (p.508). Such calls for alternatives to prohibition have increased the popularity of harm reduction measures as discussed in Chapter 2. These include public education, needle swap programmes and decriminalisation. Key to that earlier discussion was Loue’s argument (p.46) that harm reduction is a “cultural-centric approach” which considers religion, ethnicity, class system and indigeneity and therefore considers Gray & Wilkes “Indigenous initiative”. One of the key questions then becomes, is harm reduction an option to mitigating yaqona consumption?

**HARM REDUCTION AND YAQONA USE**

Until prompted, only two of the 37 participants suggested actions other than enforced regulatory measures in order to curb yaqona consumption levels believed to impair a teacher’s ability to deliver quality education to their students. One, a male iTaukei academic and former yaqona consumer stated, “I would look at adult learning, adult education for these teachers so that they receive information on this. Looking at something like awareness programs to get them to drink less yaqona.” (IQ216). A former iTaukei school principal who consumes yaqona made a similar suggestion—

See, regulations never work. You have to come from the other side. You have to target them [teachers] to lift the standards on how they present, punctuality; then maybe this will put pressure on people to change their drinking behaviour. We need to think hard about this. But to tell people just to stop drinking, this will not work. Public awareness is good. Like the cigarettes. There is change happening for smokers because of awareness programs. In 2005 and 2006 there was an intensive awareness programmes and we are seeing some success. (IQ217)

This informant is not alone in their observations regarding tobacco use reduction. This is something I have also noted among my iTaukei family and friends, especially in the past five years. The potential of awareness programmes was put to 12 of the participants, however thoughts were mixed. Four participants, all yaqona-consuming iTaukei males, felt such a programme “wouldn’t work” (IQ218-220). One of these, a school principal, added they would be “a waste of time, pointless.” (IQ221) He justified his comment by explaining that the use of yaqona comprised cultural practices and systems that had been observed for generations and, in his opinion, could not be changed by an awareness programme. “People might come [to the programme] but the culture is more important”, he added.

Two of the participants were unsure. An iTaukei male yaqona drinker suggested, “it might be valuable, but you know kai Viti style, we just can’t do that” – again indicating the complexities of culture (IQ222). A female yaqona consumer of iTaukei ethnicity suggested that “it might be affective for some teachers, but the ones that drink will always drink” (IQ223). The remaining six participants were more encouraging. A male iTaukei who consumes yaqona believed such a programme had merit, “but it would have to be in the Fijian [vosa vakabau] language” (IQ224). A non-yaqona drinking Fijian female believed “it would have some positive effect [because] they are teachers, they are learned people; it will stick in their heads” (IQ225). A non-drinking male Fijian suggested, “don’t tell them rules and don’t give them a book coz they never read it. But awareness programme will be good for them” (IQ226). Finally, a yaqona-consuming SEO stated, “you need to target the heads of the Ministry [of Education] first. The teachers can’t change until the ‘heads’ change” (IQ227).
WHERE TO FROM HERE?

The final part of the last research question asks what action should be taken regarding teacher *yaqona* consumption, if such drinking is believed to negatively impact quality education delivery. As discussed, prohibition has essentially been ruled out as a possibility. This is chiefly because the use of *yaqona* is integral to the *vakaturaga* value system, which the stability of the culture and its identity are hinged and expressed. Secondly, it was argued that prohibition would simply lead to covert consumption and ‘substance switch’ which would mirror the “catastrophic failure” of the America’s *Noble Experiment*, the alcohol prohibition of 1920-1933 (Goode, 1993:170; also see Deitch, 2003:141). Finally, Professor Nicholas Thomas (1997:50) acknowledged what is at stake here when he commented that *yaqona* use “is visibly and manifestly a cultural practice, a ritual that is bound up with traditions, values, and social relations” and that to prohibit this “cultural keystone species” would “eschew these crucial cultural values”.

Although regulatory measures as developed by the MoE (see p.64) fared slightly better than the idea of prohibition, overall they appear to lack favour due to undefined boundaries, immeasurability and unenforceability. Additionally, although some participants felt public awareness programmes would be “a waste of time” (see IQ221 above), others felt they had some potential for success citing a reduction in tobacco use attributed to such harm reduction measures. Therefore, from the perspective of the participants who were asked what, if anything, should happen if tests suggested the consumption of *yaqona* the previous night was impairing cognition and negatively impacting the delivery of quality education to students, public awareness programmes appear the most constructive way forward.

It could be asked then, after all those weeks of field research, countless hours of *yaqona* consumption, the reading of over a thousand journal articles and almost one hundred books and multiple pages of discussion, is that it? Are there no other options except for awareness programmes (of which many participants felt would be fruitless)? The key to remember here is that this study is guided by Vanua Research – a post-development aligned approach – in which local voices were used without influence or suggestion for the purpose of encouraging internal debate. It was such domestic dialogue, originating from within the local educational arena that led to the suggestion that awareness programmes may have value. Although no further options were suggested (other than regulatory measures or prohibition) during the field research utilised (which admittedly only consulted 37 participants), this does not necessarily lead to the conclusion that alternatives are not possible.

A key to stimulating further local initiatives is the culturally embedded communicative process of *talanoa* (also see Chapter 6, p.88). Nabobo-Baba (2005:393) discusses the value of this “culturally recognised and accepted process” in conflict resolution. “Talanoa – or more accurately veitalanoa – is traditionally used in the Fijian [*iTaukei*] process of veivakaduavatataki (to make one, to connect, to re-connect to make one, to restore peace)” (p.392). Essentially *talanoa* promotes dialogue and encourages wrestling with issues, in order to expand on them together with continual regurgitation at later times in changed environments, thus building on previous progress or seeking alternative pathways where there appears to be impasse (Nabobo-Baba, 2005:396-7; Vaka’uta, 2011:8). Robinson & Robinson (2005) explain *talanoa* at length and capture its ideals when they stated–

Talanoa (‘talk’ or ‘discussion’ in Fijian, Sāmoan and Tongan) is a Pacific Island form of dialogue that brings people together to share opposing views without any predetermined expectations for agreement. Talanoa participants set the parameters for their discussions: inclusion, reconciliation and mutual respect... Sitiveni Halapua... [who acted as a moderator during post May 2000 coup d’état* talanoa* sessions... [stated], “To say people have to agree to something is starting at the wrong end. Whose fault it is for not striking an agreement...
becomes the primary focus. People are afraid of differences but they are a fact of life. The ultimate goal is living with the differences. Understanding them better is a good start’ (p.1)

Talanoa is a traditional Pacific Island deliberation process that goes round in circles; it does not follow a straight line, aiming towards a final decision like many Western processes. It involves a lot of repetition,... talanoa has no time restrictions... this does provide the opportunity for ‘slow thinkers’ to be engaged in the discussions... talanoa is centred on an open-style of deliberation, focusing on respect, tolerance, flexibility, openness and fairness... underpinned by unwritten rules and etiquette [of vakaturaga] (p.14).

I have experienced this “repetition” on numerous occasions, sometimes returning to a yaqona circle after several weeks or months to find an issue still being wrestled. This is especially so when the issue has cultural and/or political value.

Additionally Farrelly (2009) explains the importance of talanoa to “business vakavanua (p.1)... [and] local decision making processes... [as part of a successful] community-based ecotourism development” (p.2) in Taveuni, Fiji. Under normal circumstances, she explains, “the core cultural values associated with the vanua are incompatible with those of entrepreneurship” (p.2). However in this case, talanoa, with its culturally guided communication process that is “characterised by repetition and... no time constraints” (p.3) acts as the catalyst for the success of the development venture. Further, Farrelly (2009) alludes to the importance of yaqona to the talanoa process when she cites a research participant who states, “in the Fijian style – the va’vanua style, we... sit together... drink [yaqona] together and discuss” (p.3-4).

Nabobo-Baba (2005) also explains the importance of yaqona to the talanoa process of veivakaduavatataki (conflict resolution)—

At the end of the talanoa session, the yaqona prepared by the dauniveivakaduavatataki is drunk together to seal the truce and bless the relationships within the vanua. The purpose of the yaqona is to submit the agreement to the ancestors and God, and also place a curse on any party that breaks the affirmation of veiwekani (clan relationships) made in the mediation process. This curse is known to continue for generations. It is the yaqona that gives weight to the whole reconciliation process (p.393-4).

Where Nabobo-Baba explained the use of yaqona at the conclusion of talanoa to affirm agreements, the use of the “cultural keystone species” is also important to the opening of talanoa. As previously explained, the culture and use of yaqona is juxtaposed with the ethos of vakaturaga, (p.76,83,86), therefore the presentation and consumption of this indigenous substance at the commencement of talanoa also prescribes the expected atmosphere which includes the vakaturaga values of veidokai kei vakarokoroko (respect and humility). Robinson & Robinson (2005) infer this value system when they explained—

Drinking kava before the talanoa session is a ritual acknowledging and apologising for harsh words or wounds that have been inflicted by people involved. It opens up the discussion and sets a peaceful tone for the following deliberation. Once the kava has been drunk, participants are obliged to sit and talk without preconceived views (p.14).

Finally, in addition to Farrelly’s brief comment above, Mishra (2007:45) also explains that talanoa and yaqona consumption frequently go hand-in-hand, a practice common to both iTaukei and Fijians (also see Nabobo-Baba et al., 2012:110). He adds, “Talanoa/tanoa echo each other, dragging one into the other through euphonic and socially semiotic connections” (p.45).

The traditional/contemporary tension that has unfolded in this research, with its cultural importance, possibilities and potential impacts for both yaqona consumers and non-drinkers alike, I would argue, is a topic ideal for talanoa. More importantly, this locally driven and culturally guided process informed by the traditional value system knowledge base manifests self-determination in forging a way ahead. Furthermore, this is the
primary goal of this research, to stimulate internal dialogue enabling those at the post-development coal-face to wrestle and build on this culturally informed complexity.

Although the Former President of the Malvatumauri (Vanuatu’s National Council of Chiefs), Willie Bongmatur (1994), does not offer insight concerning the specifics of the tension being debated here, he does makes an important and valid statement that offers guidance to the task ahead for the Fijian Government:

Any national cultural policies must be based on local cultural ideas and practices. A national cultural policy must not be imposed from the top to the bottom, but must come from the bottom to the top. It must take into account matters such as... connections between cultural heritage and local identity, and people’s authority over their own custom.

Cultural leaders at all levels should be advisors in local and national cultural policy formulations. Policymakers need to consult closely with existing cultural leaders.

National cultural policies must address all levels of community, including the provincial and the village. These policies should coordinate all functions relating to culture that might be performed by various governmental and private bodies and agencies.

All who might be involved in cultural policy formulation and its implementation must have a clear idea of what is meant by the terms custom and culture. National cultural policies must attempt to make clear to the people that culture is a living thing; that it does not refer to archaic matters or objects such as artefacts in museums; and that it covers all aspects of people’s lives (p.85).

**Talanoa** is an ideal setting for the addressing of cultural policies.

**CONCLUSION**

This chapter brought a marked change to what had been, up to this point, mostly negative comment concerning *yaqona* within the teaching environment. Prior to this, the only real exception was the indigenous substance’s link with identity formation and solidification and concomitantly academic achievement (see p.61-63). By answering the first portion of the final research question, ‘Does *yaqona* play other positive roles in the school environment..?’ it would appear the removal of this cultural icon would create a number of difficulties in addition to identity limitation. Overall participants stated that *yaqona* was a critical element in the State/Community partnership where it aided community support, a necessity to school administrative and labour duties, infrastructure and maintenance, the supply of food items for boarding students and most importantly vital financial assistance. The massive loss of income at a school fundraising event due to the absence of the indigenous substance is an overt example of this. This then raises the question of how many schools could survive without *yaqona*? Admittedly though these positives can be simply negated by reasserting the impacts of *yaqona* to teacher “professional virtues”, or simply embracing the opinions of the ‘sacred’ or ‘secular fundamentalist’ oppositionist as discussed above. This theme will comprise discussion in the final chapter which will include psychologists comment that argues “people tend to remember more negative... [than]...positive... statements” (Nairne, 2011:302), a factor that add to the complexities of this traditional/contemporary tension.

When asked how *yaqona* should be handled considering cognitive impairment and impacts to quality education delivery, participants working at the education coal-face mostly responded that little could be done due to the importance of the indigenous substance to the culture. Additionally this link with culture and expression was believed to limit the effectiveness of policies aimed at restricting consumption. Moreover, this problem also appears to be both recognised and struggled with by the MoE who, in attempting to create a ‘black and white’ policy, have done little more than produce subjectivity due to acknowledging cultural importance. Collectively the comments of the participants together with ineffectual policy attempts reiterate the complexity of this traditional/contemporary tension, a predicament that also appears unlikely to be resolved through prohibition as this has the potential to create alternate socio-cultural implications such as ‘substance switch’ and increased violence. Public awareness and harm reduction programmes, especially those with a “cultural-
centric approach” (Loue, 2003:153), did receive some favourable endorsements from participants, with one participant citing tobacco use reduction in Fiji as resulting from such action. However, this idea was also criticised by a few participants who felt the cultural factors associated with yaqona use would overshadow and therefore void the value of awareness programmes. It could be argued that cultural reasoning is simply an excuse cited by yaqona-drinking iTaukei to justify consumption. However, the responses of several non-yaqona drinking Fijians, who acknowledged that the indigenous substance was importance to culture together with acknowledging authority (IQ194,190,212), would suggest otherwise. Yet again this highlights the complexity of this unique issue. Regardless of the mixed reactions to awareness programmes, there was some support for these, indicating that harm reduction measures could be worth considering by those at the educational coal-face.

Finally, talanoa was recommended as a promising way ahead in untangling this complex and culturally important issue. Talanoa is a post-development, locally driven, “culturally recognised and accepted process” (Nabobo-Baba, 2005:393), a system of dialogue argued to be ideal in disentangling this unique situation. It empowers locals from all sides of the opinion base to debate, be heard and decide on issues that directly affect them, free of external influence, domination and hegemony.

The following final chapter will summarise the aims and findings of the study, the contributions this has made to the literature, and a final concluding statement.
CHAPTER 10
THE INTERWEAVING OF CULTURE,
DEVELOPMENT AND EDUCATION

INTRODUCTION
This final chapter begins with a review of the key influences leading to this current research. This is followed by a summary of the study’s aims and a discussion of its findings as they relate to the core research questions:

- What are the *yaqona* consumption habits of Fijian teachers, and what role does culture play in this?
- Does *yaqona* impact teacher cognition, sickness and absenteeism and if so, what effect does this have on education delivery?
- Does *yaqona* play other positive roles in the school environment and if so, what action should be taken regarding teacher *yaqona* use, considering that *yaqona* is central to culture?

Contributions to developmental and educational literature are then presented. The chapter finishes with suggested areas for future research followed by my concluding statements.

KEY INFLUENCES – RESEARCH RATIONALE
This research began with a personal narrative in which I explained my struggle to teach following a night of *yaqona* consumption. Essentially, this experience led me to consider what would happen to education delivery and Fijian national development should teachers be asked to cease consuming their “cultural keystone species” (Garibaldi & Turner, 2004:5) on nights before teaching or on the school campus. The more I considered this issue it became apparent that there were layers and complexities that defied simple cause-and-effect arguments. These factors acted as the initial key influence that compelled me to undertake this research. The second came when I began researching material related to my experience. This proved difficult, as available literature was dominantly anecdotal in nature and characterised by subjectivity such as unsubstantiated reports in the Fijian media. Additionally, no research could be identified that had investigated the relationship between *yaqona* and education with the exception of a short comment in the Ministry of Education’s (MoE) review, *Learning Together* (Tavola, 2000:169) which included an earlier statement by Jenkins & Singh (1996:35).

The *Learning Together* document presented a list of factors the MoE believed had either aided or impeded academic achievement in Fiji (Williams, 2000:186-8,214-5). This included a reference to “*yaqona* drinking” (Williams, 2000:187), although it did not elaborate further on this. This review also presented discussion on “quality of teaching” and “bad teaching” (Williams, 2000:187,215), terms I drew together under the focused theme of *quality education delivery*. By drawing on other literature that discussed the role of quality education delivery in facilitating academic achievement (Fraser, 2008:1; Hall, 2008:221,225; Sewell & St. George, 2008:204) and concomitantly economic and developmental betterment (Voigt-Graf, 2003:163;Williams, 2004:133; St. Clair Skeet, 2007:31-2), a fuller understanding of this theme proved relatively simple. However, discussion or information on *yaqona* within the educational arena, other than the brief comments mentioned above, was absent within the remainder of the MoE document – in fact, this was a discussion lacking in literature generally. Moreover, what limited comment was available appeared to be confusing. For example, while the MoE acknowledged the importance of *yaqona* to Fijian cultural systems, they appeared equally concerned that its over-consumption had the potential to disrupt teacher effectiveness (Tavola, 2000:169), but had no evidence to support this. Further, in this report the MoE agreed that culture (which includes *yaqona*) and its associated values (of *vakaturaga* – cultural values based on respect) play an important role in educational attainment and guide socio-cultural processes. However, they also note that culture can displace educational importance and, in turn, hinder academic achievement and subsequently, socio-economic and political development (Williams, 2000:179,184).
These comments, together with my ancestral and identity connections with Fiji, previous experience as a teacher in that country, and more recently understandings gained as a development studies student, highlighted both a traditional/contemporary tension between the traditional use of **yaqona** and the contemporary pursuit of development, and acted as the key influence in undertaking this study. Finally, the complexities of the traditional/contemporary tension informed the aims of this research and are reviewed below with their key findings.

**SUMMARY OF STUDY AIMS AND FINDINGS**

**THE AIMS OF THE STUDY**

The MoE alluded to the complexity of a traditional/contemporary tension when they stated, “**Yaqona** drinking is important in ceremonial Fijian culture and social gatherings but excessive consumption of **yaqona** is becoming a problem... it substantially inhibits performance of duties in non-traditional professional environments, including the civil service and teaching” (Tavola, 2000:169, emphasis added). To assist with an understanding of this juxtaposition and the wider aspects of culture to Fijian education generally, the MoE requested that research be conducted to give understanding to the relationship between Fijian [iTaukei] culture and values and its system of education (Williams, 2000:188). In my case this request was formalised by a personal invitation from the Deputy Secretary for Education.

This study aimed to respond to that invitation by investigating the specific theme of **yaqona** and quality education delivery as opposed to a broad-sweeping discussion of all themes and elements presented in the *Learning Together* review. The investigation was guided by the indigenous *Vanua* Research framework, an approach that embodies the principles of post-development. Post-development is an evolving anti-hegemonic, internally theorised, initiated and applied development ideology. Further, post-development acted as a resource to assist in resolving some of the theoretical aspects of “contemporary problems created by modernization and development” (Schech & Haggis, 2000:124). The contribution this current research has made to post-development is discussed following a summary of the research findings.

**THE FINDINGS**

A total of 145 people assisted the study. Of these, 63 teachers from 18 of the schools visited, were surveyed and interviewed, providing information that enabled participant selection for cognitive assessment. 36 of these met the necessary conditions for psychometric testing, and comprised two groups ('active' and 'control'). Results of these interviews and assessments are discussed below, and are organised under headings that reflect the questions that were investigated.

**RESEARCH QUESTION 1: YAQONA CONSUMPTION AND CULTURE**

The first research question focused on gathering information regarding the **yaqona** drinking habits of Fijian teachers and then asked what role culture played in that consumption. The participants in this study reported that, on average, they had consumed **yaqona** for six hours on nights prior to teaching in the classroom. Although there was a significant difference between this average and that which was found in my earlier Master’s study (three hours) (Aporosa, 2008:24), this did not seem unrealistic. For instance, preliminary findings from a USP study suggest females consume, on average, between two and three hours and males five hours per session, whereas another researcher stated that males were observed to drink, in some cases, in excess of 40 hours per week (p.73-75; Newland, 2008:n/a; Tomlinson, cited in Aporosa, 2008:68). Admittedly two-thirds of the data indicating consumption volumes was collected during November, a time when the school year slows down due to examinations. However, some of my Master’s data was also collected during an examination period, further supporting the likelihood of an increase between this and my earlier Master’s study. The consumption period of six hours equates to an estimated 36 **bilos** and 9,576mgs of kavalactones, almost 32 times greater than the daily pharmacologically recommended dose (Mediherb, 1994b:2).

Of interest was consumption by ethnicity, which revealed what I termed the creation of *perpetual statements of inaccuracy* by iTaukei, as well as the importance of culture in promoting **yaqona** drinking. Although the
rural iTaukei participants were adamant they were the heaviest consumers of their indigenous substance, when compared to their urban and semi-urban ethnic counterparts and Fijian (formally termed Indo-Fijians) consumers in all settings, this was incorrect. Rural Fijian teachers were shown to be the heaviest consumers (averaging 8.6 hours per session prior to teaching) while urban iTaukei drinkers (averaging 6.6 hours) were found to consume more than their rural ethnic counterparts (at 5.6 hours). I argued that the creation of these misconceptions by rural iTaukei was founded in notions of identity. Factors that supported this were iTaukei statements that described yaqona use as solidifying and reinforcing a sense of place, tradition and power. These statements echo what I described as yaqona representing an ingestible manifestation of vanua (p.86). This observation was developed by drawing on commentators who stated vanua is “inextricably tied to an idealized tradition” (Tomlinson, 2012:218) through “identity… spiritual roots… relationships… knowledge and language” (Nabobo-Baba et al., 2012:23).

I further argued the iTaukei desire for identity solidification was a reaction to perceived threats to their culture from modernity, Westernisation, urbanisation and Fijian political, business and property ownership success. These threats to self are an active ingredient in the creation of these perpetual statements of inaccuracy by rural iTaukei. Essentially, rural iTaukei believe they consume more yaqona in this environment than their urban or Fijian counterparts as this solidifies their notions of traditionalism which add to their “sense of self” and identity (Brison, 2007:95). This then demonstrates the role of culture in iTaukei yaqona consumption, a function that also extends to the school campus. As discussed in earlier chapters, isevusevu is intrinsically linked to iTaukei traditional systems (Brison, 2007:15-6), is a ceremonial practice utilised on the school campus, and is therefore a key component in bolstering that sense of identity.

Similarly, Fijian yaqona consumption was shown to be influenced by culture even though they did not begin to consume this indigenous substance until the 1970s (Prasad, 2004:209-211). I argued this was due to “diaspora identity” (Hall, 199:235), a melding of traditional Indian cultural expression with that of iTaukei cultural expression and the culture of yaqona. This also includes practices such as isevusevu at some Fijian schools. This current research found that diaspora identity was linked to increased yaqona consumption as a response to cultural change, political and social instability, land loss and feelings of disempowerment.

Yaqona drinking quantities by iTaukei females, was found to be slightly greater than their male peers – an interesting finding considering consumption volumes are traditionally associated with notions of masculinity. However, it was explained in the Limitations (Chapter 6) that this may also be somewhat misleading due to the small number of females selected for consumption assessment. Finally, this research found evidence that yaqona use within the school arena was likely to increase inter-ethnic socialization, which in turn was argued to be a contributing factor to improved staff unity, with research suggesting staff cohesion and collegiality is a valuable input to quality education delivery.

The key theme to emerge from participant responses was the importance of yaqona to notions of identity for iTaukei, and to a lesser extent Fijians. Academics have argued that identity and notions of self-worth aid scholastic achievement. Cumulatively these factors strongly support a relationship between yaqona use, culture, identity and educational attainment.

**RESEARCH QUESTION 2: EFFECTS OF YAQONA ON COGNITION, ABSENTEEISM AND EDUCATION DELIVERY**

The cognitive effects, sickness and absenteeism resulting from lomaloma ca, or yaqona hangover, and how these impact quality education delivery, was the focus of the second research question. Psychometric tests were administered to compare differences in levels of concentration, short-term memory and attention between an ‘active’ (yaqona consuming) and ‘control’ (non-drinking) group of 36 teachers as they entered the classroom in the morning to commence education delivery. The results of this analysis indicated a 16.5% deficit in processing speed in the ‘active’ group. Although a number of constraining factors prevent conclusive statements being made (see Limitations), ethnographic reports add weight to these experimental findings. Specifically participants overwhelmingly reported a lack of motivation and short-term memory deficits which
interfered with their ability to provide quality teaching. These deficits also resulted in negative impacts on their non-yaqona consuming peers, including frequency of arriving late to the classroom, escalated incidents of taking sick leave and/or a lack of production while at work (presenteeism), all of which increased workloads and stresses on non-consuming peers. Overall, these impacts were described as negatively effecting teacher roles, competencies and professionalism which in turn compromised quality education delivery and impeded the achievement of developmental goals and economic growth.

When these results are considered together with the findings from the first research question, they support the notion of a traditional/contemporary tension. For example, yaqona has a positive impact on educational achievement through identity formation and solidification based in traditional systems and processes that strongly contribute to a sense of self. However, my results also suggest that the over-use of this “cultural keystone species” is simultaneously interfering with quality education delivery and, therefore, the pursuit of contemporary-styled development.

RESEARCH QUESTION 3: THE ROLE OF YAQONA IN EDUCATION DELIVERY – THE PAST, PRESENT AND FUTURE.

The third question investigated whether yaqona played any positive role within the school setting and if so, what, and if any action, should be taken with teachers when considering the traditional/contemporary tension. Research participants reported that yaqona is critical not only to identity maintenance, but also to the survival of many schools. Essentially, yaqona is both a driver to and a facilitator of the State/Community partnership by encouraging community support, infrastructure, facility maintenance and most critically, financial backing. A number of participants were clear that the loss of yaqona from the educational arena had the potential to threaten the survival of many schools. These reports again demonstrate the complexity of this issue. On one hand yaqona use is argued to be a hindrance to quality education delivery, teacher roles, competencies, professionalism and attendance, while simultaneously considered to be central to identity formation, academic achievement and now, as discussed in Chapter 9, school continuance and education provision.

With regard to how to deal with this traditional/contemporary tension, the majority of research participants were adamant that, due to the cultural embeddedness of yaqona, any regulatory action would be futile. My earlier discussion, which summarised attempts by the MoE to regulate yaqona use in schools (p.63-64), appeared to support my participant’s beliefs. However, the failure of this policy appears to be more complex than simply an issue of teachers ignoring its demands to cease consumption. This is because the MoE (2010) both acknowledge the importance of the “cultural keystone species” while simultaneously seeking its restriction. This, some participants suggest, has created a policy with mercurial boundaries which could be interpreted and applied in numerous ways. Further, most participants were opposed to any group who sought the prohibition of their indigenous substance. Again, they cited yaqona’s cultural importance with the suggestion that attempts to repress its use had the potential to lead to a ‘substance switch’ (particularly towards alcohol or marijuana) and socio-cultural disharmony.

When asked what action could be taken to assist this multi-layered and complex issue, participants had little to say, citing the cultural importance of this “keystone species”. There was strong consensus from yaqona using teachers that they would not cease to use their indigenous substance. However, there was some marginal support for locally produced and delivered awareness programmes aimed at highlighting the problems associated with teacher yaqona over-consumption to quality education delivery. Overall, the “culturally recognised and accepted process” of talanoa (Nabobo-Baba, 2005:393) was suggested as the most promising and effective way forward in untangling this important culturally complex issue. The participant comments recorded in this study, together with the discussion around the intrinsic issues related to yaqona and education, can provide informed comment to aid MoE and education stakeholder talanoa. I believe that this process is empowering and supportive to national- and local-level decision-making processes on this complex issue.
The following section will describe the contributions this study has made to the development, education and *yaqona/kava* literature prior to discussing suggested areas for further research.

**CONTRIBUTIONS TO THE LITERATURE**

This study makes a number of contributions to the literature instead of theory. This is principally because the investigation was guided by *Vanua* Research and post-development theory, with the former being a methodological and interpretive framework and the latter an evolving school of thought (Nederveen Pieterse, 2000:176,181; 2010:111; Jakimow, 2008:321). Discussion will commence with the contributions to several areas of the development literature generally before focusing on education and post-development to add to the MoE’s request for research on “culture to the current education system” (Williams, 2000:188).

**IMPORTANCE OF CULTURE TO DEVELOPMENT**

Literature on the importance of culture to development is not new (Rao & Walton, 2004:9; Nederveen Pieterse, 2010:16). However, this study has added to this literature specifically as it relates to the use of indigenous substances and their union with identity (and therefore to culture) as part of the developmental process. This has been achieved by drawing together and linking several wider themes. In Chapter 3 I established the importance of a number of indigenous substances to specific cultures and the multiple impacts that colonial contact, modernity and industrialisation had on their use systems. These changes were shown to be a catalyst to the loss of a large amount of traditional knowledge, and concomitantly, aspects of identity (Veitayaki, 1995:104; Stedman-Edwards, 2000:18; Soselisa, 2007:143). This chapter and the wider discussion on *yaqona* and education is the first on the specific theme of indigenous substance use and its tension with modernity and development and greatly expands the literature on indigenous substances and development. It challenges the predominant ideology that has historically viewed traditional preparations as primitive and a hindrance to development (Coomber & South, 2004:18). Such ideologies, by their very nature, result in impugning and challenging notions of identity.

Identity was also shown to be an important factor to successful development as it aids academic achievement and socio-cultural wellbeing (Ishemo, 2002:33). With “the loss of culture ... at the heart of our educational and social problems” (Teasdale & Teasdale, 1992a:1), local identity must be factored and legitimised to ensure sustainable development. However, the dominant contemporary development ideologies deem culture and identity “acceptable provided... [it does] not interfere with economic progress or with the conventional development indicators” (Eade, 2002:ix). This current research directly challenges such thinking, and places culture and identity at the centre of development theory and practice, rather than as a nuisance that must be managed.

This present research also contributes, albeit in a small measure, to literature on spirituality and development by linking this concept with indigenous substance use and identity. Although spirituality is often feared and/or avoided by development practitioners (Kousary, 2006:22; Nabobo-Baba, Naisilisili, Bogitini *et al*., 2012:23), there are others who understand that for many groups who embrace traditional systems, spirituality and development cannot be separated as the elements of development are “pictured inside spirituality” (Sanderson, 2006:7; also see Ver Beek, 2002:60-1). Therefore, spirituality must be a consideration to the processes of development. The neglect of spirituality by practitioners threatens local empowerment, collaboration and identity (Ver Beek, 2002:74). I contend that, successful development among those communities who use traditional substances will be impossible without the active involvement and legitimisation of spiritual systems as part of any developmental process (Verhelst & Tyndale, 2002:7).

The issues discussed here contribute to debates concerning Fijian development. The Government of Fiji have adopted elements of the Eurocentric-informed and prescribed developmental pursuit to increase national growth and economic development. However, their people also have woven into their cultural foundation spirituality and an indigenous substance which is intrinsically linked to notions of identity and cultural construction. This has created a macro-level traditional/contemporary tension, in that cultural aspects (traditional) are reported...
to hinder productivity whilst being simultaneously important to the achievement of successful development (*contemporary*). This tension is mirrored at the micro-level in this current study – specifically that the use of *yaqona* is reported to inhibit quality education delivery (*contemporary*) and is also argued to concurrently aid academic achievement through identity reinforcement (*traditional*). Although a minority argue that the retention of *yaqona* within the education system has the potential to be counter-productive to the goal of national development, it is equally clear that its removal could jeopardise that aim.

**FIJIAN EDUCATION – A HYBRIDISED FORM OF NEO-LIBERALISM AND SELF-DETERMINATION**

Although neo-liberalism is having an influence on Fijian national development and education policy through IMF and WB requirements, national reforms, the introduction of a VAT, and currency devaluation to aid foreign reserves (Nabobo, 2001:57; Tuinamuana, 2005:202; Wood & Naidu, 2009:156-7; Barr, 2012:12), practical Fijian education remains highly self-determining. Indigenous cultural systems were discussed as both important to, and in use within education (Williams, 2000:186-8), an influence that has its foundations in colonial period “education with a cultural bias” (Scarr, 1983:340; also see Tavola, 1991:21). Further, the Minister of Education explained that they have sought external collaboration and “evolved our own” education system (Bole, 2009, pers.comm., Nov. 20). This suggests a hybridised post-development styled approach taking on board elements of internal (culture and self-determination) and external (the neo-liberal focus on the State/Community educational partnership) systems.

Although the State/Community educational partnership appears to be a recent invention as it fits well with the privatisation aspects of the neo-liberal agenda, it too was a product of the colonial era (in a similar manner to “education with a cultural bias”). This partnership offers the local a high level of involvement and input into the education of their children, aiding the continuance of culture together with aspects of self-determination. Further, that partnership is extremely important to the survivability of school, a function this study has shown is highly dependent upon *yaqona*. While this current research has brought new understandings to the State/Community partnership and its function in Fiji, it also adds to the educational literature on the theoretical fit and style of Fijian education – that being a hybridised post-development styled approach.

Further, this again highlights the complex interplay between traditional practices and contemporary development endeavours. While the MoE openly state their concerns regarding *yaqona* use and education delivery (Tavola, 2000:169), they do not discuss the importance of the traditional substance to the State/Community partnership. This is a theme I will expand on in the next section which discusses the contribution this study has made to the *yaqona* literature.

**YAQONA**

This study has contributed to literature by offering new insights that update and identify misconceptions concerning teacher *yaqona* use, as reported in my previous Master’s investigation (Aporosa, 2008). To date this current research has been the sole inquiry into the theme of *yaqona* and education in Fiji. First, teacher *yaqona* consumption volumes appear to have increased, with the survey suggesting a doubling when compared with my Masters finding four years earlier in which participants were shown to consume *yaqona* on average for three hours on nights prior to teaching to six (Aporosa, 2008:77; 2010:24). The new six-hour drinking period represents an estimated consumption volume of 36 “standard” *bilo*s of the indigenous substance which equates to approximately 32 times the pharmacologically recommended daily dose. Second, it is the *Fijian* teachers who were identified as drinking the most *yaqona* in the rural and urban areas, and urban *iTaukei* who consume more than their rural ethnic peers, a finding that contradicts the beliefs of rural *iTaukei*. Such misconceptions are reported to be based on the formation and reinforcement of identity’.

Third, this investigation has made a contribution to the literature on the link between *yaqona* and *iTaukei*identity. This has been done by drawing on limited comment together with new insights – an analysis of consumption habits, a discussion of *yaqona* as *wainivanua*, and the creation of the misconceptions by *iTaukei* to aid notions of identity. Further, it has responded to assertions from members of several new Pentecostal movements who
deny this link. Identity is also recognised as a central element of empowerment (Nabobo & Teasdale, 1995:704-5; Nabobo, 2000:3), therefore adding weight to the importance of wainivanua to heightened notions of self and concomitantly academic achievement. Yaqona is also used by migrants to counter loss and disempowerment while demonstrating belonging to their homeland in absentia.

In much the same way, this study has challenged the beliefs of some commentators who report no connection between Fijian yaqona use and culture (and therefore identity) (Prasad, 2004:210-1; Mugler, 2004:243) by demonstrating this union comprises one aspect of “diapora identity” (Hall, 1990:235). Fourth, this study presented the first comparison between iTaukei and Fijian consumption styles. When combined with the discussion on the cultural aspects of Fijian yaqona use, this makes a major contribution to the understanding of this ethnicity’s use of the Fijian “keystone species”, an idea that has had little attention in the past. This also highlights the practice of bole (competitive yaqona consumption) among Fijians while contributing further to the limited comment on this theme among iTaukei.

Fifth, the analysis of yaqona presented in this study – which included comment on its associated value system of vakaturaga, its imbued possessant and transferent powers of mana and its identity formation attributes – demonstrated that this creates a sense of ownership and obligation that contrasts with Eurocentric cause-and-effect understanding. Whereas the theory of production would argue a need to restrict or prohibit yaqona use due to productivity disruption and impacts to economic development (Frisch, 1965:iv), many iTaukei (and a growing number of Fijians) struggle to conceive life-ways without this “cultural keystone species”, essentially overriding productivity concerns. Further, as repeatedly discussed, commentators point to the value of identity to academic achievement and sustainable development. This again illustrates the complex tension between this traditional preparation and the contemporary pursuit of development. This predicament is magnified further as the associated values, mana aspects and identity attributes prevent many iTaukei from speaking negatively about their indigenous substance, essentially elevating this and the user to a position that is beyond criticism. This thesis, then, adds to the limited literature on development and indigenous substances, which in the past has tended to focus on the more narrow perspective of traditional preparations as a hindrance to developmental systems or as an aid to primary health care.

Finally, a key contribution this study has made to literature concerning yaqona comes out of the results of psychometric tests administered to teachers as they entered the classroom to commence education delivery in the morning. This is the first time cognitive measures have been administered for the purpose of gathering data on the impacts of lomaloma ca (yaqona hangover). To date, comment has been either anecdotal media reports or ethnographic comment presented in my earlier Master’s research with qualitative findings restricted to the application of ingestion calculations to estimate initial point of yaqona intoxication and steady-state concentration (Aporosa, 2008:43-9,130-2; 2011:234-7). Further, this adds to the paucity of research that examines cognition following ingestion rates far in excess of pharmacologically recommended doses83. Comparative analysis suggests a 16.5% deficiency, or 0.31 second delay, in the cognitive aspect of processing speed between a ‘control’ (non-users) and ‘active’ (yaqona-drinking) group. Admittedly a number of constraints prevented ‘gold-standard’ methodological procedures, therefore necessitating this be termed explorative and experimental. However, when combined with ethnographic reports, which tends to corroborate the findings, it suggests an impact on quality education delivery by post-yaqona consuming teachers who had consumed at the average consumption duration of six hours the night prior to teaching. Further, it is suspected that these cognitive effects have the potential to last several days due to steady-state concentration. Lomaloma ca was reported to impact teacher roles, competencies and professionalism while increasing the likelihood of sickness, lateness, and/or presenteeism which in turn jeopardises the achievement of developmental goals and economic growth.

Conversely, the values and sense of obligation associated with yaqona use and the State/Community

83 As discussed in Chapter 6, the administration of cognitive tests among users who had consumed at indigenous consumption volumes and rates was conducted by Waqainabete (2003). However, these had limited applicability when assessing lomaloma ca.
partnership which functions on and through the use of this indigenous substance, reasserts the complexity of the traditional/contemporary tension. Moreover, this demonstrates yaqona’s position as the central theme of a complex web that defies simplistic cause-and-effect accusation and/or prescription, as its use and associated culture both manifest positive and negative attributes. These themes make a fresh and important addition to the literature.

POST-DEVELOPMENT

Nabobo-Baba’s (2006) Vanua Research was utilised to investigate and guide this study. She describes Vanua Research as “counter hegemonic... an indigenous theoretical approach embedded in indigenous Fijian worldviews, knowledge systems, lived experience, representation, culture and values. It gives power and recognition to things Fijian [iTaukei] as research and knowledge accumulation in its broadest sense is deeply connected to power” (p.1). Vanua Research then reflects the core principals of, and aligns with, post-development – these tenets being the elimination of hegemony, acknowledgement and endorsement of local decision making and governance systems, culture, traditional knowledge and self-determination. In utilising Vanua Research, this study therefore has contributed to the post-development literature by suggesting that the paucity of discussion on methodological approach within post-development writing can be addressed by incorporating and drawing on indigenous frameworks (such as Vanua Research, Kalaka, Māori methodologies etc.) that have a set of principles that match and align with post-development. Additionally, it joins with a limited number of academics and adds to the paucity of literature on practical post-development application (Curry, 2003; Gibson-Graham, 2005; McGregor, 2007; McKinnon, 2008), an area that some within the mainstream development community argue is a key weakness of this ideology (Nederveen Pieterse, 2010:186,187). Further, it aids to Schech & Haggis’s (2000:29) call for discussion on “what is meant by development and in whose interests it operates” as part of expanding the overall post-development debate.

This study made three specific contributions to the post-development literature.

POST-DEVELOPMENT AND INDIGENOUS SUBSTANCES

While a key strength of this ideology is the importance it places on cultural systems and traditional knowledge (Radcliffe, 2006:4), to date it has been silent on the topic of traditional preparations, regardless that indigenous substances are central to many traditional knowledge systems (Lang, 2002:1-2; Guite & Acharya, 2006:99). This study has shown the important position that yaqona has on all aspects of iTaukei (and to a lesser extent Fijian) life-ways. It is clear that this indigenous substance cannot be separated from Fijian socio-cultural, political and/or economic development due to its cultural centrality, identity, empowerment and reciprocal processes. These aspects are also essential to sustainable development, however at the same time have been criticised as hindering this possibility, notably because of yaqona’s use systems and post-consumptive lomalomaca effect to production and, specifically in terms of this study, quality education delivery. Based on historical patterns, mainstream development ideologies would recommend situational bans or the prohibition of this indigenous substance to mitigate impacts to productivity and therefore negative implications to economic development.

This study highlights the dangers of simplistic Eurocentric development prescriptions, actions that fail to consider wider issues that underpin the life-ways of non-Western peoples. It also demonstrates that cultures who embrace indigenous substance use are not necessarily “problematic population[s] in need of development assistance” (McKinnon, 2005:282). By investigating this topic through a post-development framework, it offers insights into the cultural strengths surrounding the use of Fiji’s indigenous substance to development, pointing out positives that tend to be overshadowed by the economic development perspective. Further, this study adds to literature on empowerment by recommending local decision-making systems disengage from the over-simplified hegemonic development agenda that prioritises economic development over cultural values and its related currency, and instead utilise talanoa – a locally conceived and driven dialogue process – to assist in untangling multi-layered traditional/contemporary tensions. This in turn provides local dialogue and discussion on a local issue, enabling this topic to be filtered through culture and traditional knowledge, and providing those who have the most to lose an atmosphere in which they can make their own choices. This then creates
empowerment and self-determination, aspects that are recognised from within post-development as critical to successful development (Verhelst & Tyndale, 2002:11; Radcliffe: 2006:18).

**POST-DEVELOPMENT AND EDUCATION**

The second contribution to post-development literature has been in the area of education. Although a number of commentators have discussed education processes and applications which hint at post-development – for instance commentators of post-colonial education (as discussed in Chapter 4), to date explanation on the use of, or a suggested framework for a post-development educational approach, has been absent from the literature. This study presents this by drawing on the themes from a number of commentators. Essentially, I presented a post-development framework as consisting of, and being guided by, indigenous knowledge transfer, the importance of cultural values and protocols (which in the case of Fiji is *vakaturaga* and includes the ‘culture of *yaqona*’), the utilisation of collectivism (as opposed to individual competition), local measurement and counting processes, and teacher-student collaboration based on Freire’s (1997) “dialogical education (p.78)... [and] problem posing” (p.85), all taught in the local dialect and accorded equal status with the academic achievement standards of the Eurocentric model.

The application of such a framework counters the dominant Western education belief that ‘their’ standard is the universal authority. Further, it also challenges the notion held by many development practitioners and policy-makers that all cultures are homogeneous (Eade, 2002:ix) and therefore simply require a ‘one-size-fits-all’ development prescription (that includes education) under a Eurocentric model. This is contrasted with asking ‘what do these particular people want?’ and how best do they understand this and apply it to their own surroundings and developmental desires (Escobar, 1995a:98,222; Nederveen Pieterse, 2010:16). Moreover, the attributes of this educational framework contribute to and build notions of identity and empowerment which are critical to both academic achievement and sustainable development.

**POST-DEVELOPMENT AND METHODOLOGY**

The final contribution to the post-development literature is in the area of methodology. As stated above, this study has contributed to this by incorporating and drawing on *Vanua* Research, indigenous frameworks that has the principles of hegemony elimination, endorsement and acknowledgement of local decision making and governance systems, traditional knowledge, culture and self-determination that match and align with post-development. Further, this study administered psychometric tests as a complement to the *Vanua* Research framework/post-development approach. This is believed to be a first and is argued to push post-development and its literature in a new direction. Although this quantitative method is Eurocentric in approach, design and aim, it was utilised to bring clarity to local subjectivity and uncertainty, namely the affect of post-*yaqona* consumption as raised by the MoE. Participants were compared with each other, rather than external norms which had the potential to create ‘us and them’, developed/developing, or First World/Third World comparatives. The use of this method expands on a suggested weakness of post-development, namely that this ideology is “caught in rhetorical gridlock” (Nederveen Pieterse, 2000:187-8) by expanding on “the lack of post-development alternatives” (McKinnon, 2008:281) and providing an additional practicality as part of the post-development methodological framework. In addition to aiding local uncertainty and subjectivity regarding post-*yaqona* consumption implications, it also responds to LaPorte et al’s (2011:102) request for “research... on how kava affects cognition in both acute and chronic usage... [at] larger recreation doses”.

Although the themes discussed in this study are most applicable to the Fijian context, they also have relevance to the wider Pacific and international literature.

**CONTRIBUTIONS TO WIDER PASIFICA AND INTERNATIONAL LITERATURE ON KAVA AND IDENTITY**

*Yaqona/kava/’ava/sakau et al.* are used widely across the Pacific region with reports that teachers in Tonga, Vanuatu, Sāmoa and New Zealand frequently ingest this indigenous substance on nights prior to teaching. Additionally, *Pasifika* peoples, and increasingly other ethnicities internationally*, are using this indigenous

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84 I have friends, relatives and acquaintances in a variety of vocations throughout Europe, USA, China, Thailand, Great Britain, India, Afghanistan and Iraq who regularly use *yaqona/kava* at iTaukei/Fijian ingestion rates on nights prior to working.
substance at volumes reflective of those observed during this research. This study then contributes to both the Pasifika and wider international literature concerning the use of this indigenous substance, productivity and development. Further, this study adds to the international literature on the role of indigenous substances and identity formation, especially within cultures that utilise indigenous substances such as betelnut in PNG, cocoa in South America and kawakawa in Māori society.

SUGGESTIONS FOR FURTHER RESEARCH
A key area for further research is the cognitive assessment of yaqona consumers. Although I acknowledged in the Limitations section that it is difficult to achieve a high level of test accuracy within the traditional setting due cultural constraints, this could be advanced if consumers were recruited specifically for testing in a controlled clinical environment over several days. This would allow for standardisation and randomization with a placebo control group. Such endeavours offer the opportunity to expand the literature with regards to specifying the impact of steady-state concentration and clarifying the initial point of intoxication. Further, tests of this nature could be broadened to assess yaqona effects on work place safety and driver impairment.

There is further scope to assess the use of “cultural keystone species” and spirituality and their link to identity formation and notions of empowerment within ethnic groups other than Fiji. This would offer development practitioners and policy-makers increased information when working with these communities. Additionally, it would assist in weighing potential losses and gains when formulating regulations regarding indigenous substance use, specifically as they relate to identity loss and disempowerment. This study has shown that loss of cultural identity, including forms of spirituality, can counter intended development goals.

This study also investigated yaqona use by Fijians and observed increasing usage as part of “diaspora identity” formation. There is a paucity within the literature on the use of yaqona by this ethnicity. Therefore, a great deal of latitude exists in which to build on the observations contained within this study as part of gaining a greater understanding of this theme. This also has the potential to aid developmental approaches within Fijian communities.

Further research is recommended on the State/Community partnership to evaluate the effectiveness of this approach to education delivery in Fiji. Surprisingly, this study found that yaqona both complicated and underpinned this educational relationship. It is possible then that there are other factors associated with the partnership that, once ascertained/identified, could enrich education delivery in Fiji. Further, the link between yaqona and the State/Community partnership opens up another area worthy of investigation. Foreign aid continues to assist education delivery in Fiji (St. Clair Skeet, 2007:55-59). This aid originates from an environment which prescribes a Eurocentric development and education model (St. Clair Skeet, 2007:47-8). I would argue that this designated development agenda would oppose the interference of a cultural practice such as yaqona to quality education delivery. Would that same aid system increase giving to alleviate the reliance upon the State/Community partnership which is underpinned by a culture that essentially counters the prescribed Eurocentric development agenda of the donors? Such a study has a vast scope of investigation considering the findings discussed in which identity (derived from the culture of yaqona) was noted as important to educational attainment and sustainable development.

CONCLUDING STATEMENT
Several months ago an anonymous reviewer from a prestigious journal made an interesting comment following my submission of a paper which summarised aspects of this study. They stated, “This research topic is novel, interesting, and implicitly raises the question of what is more important to the iTaukei; cultural tradition or ethical work practices” (email, 2012, April 24).

Considering that paper made several references to the importance of yaqona to identity formation together with identity being a critical element to scholastic achievement and concomitantly sustainable development,
this comment came as somewhat of a surprise. Essentially I interpreted the reviewer as suggesting that iTaukei must make a choice: the retention of yaqona, or its forfeiture to allow for appropriate and virtuous work practices to aid productivity increase. Obviously I do not know this anonymous reviewer’s opinions on culture to development. However, this type of comment tends to reflect the stereotypical ideology which views cultural practices “acceptable provided… [they do] not interfere with economic progress” (Eade, 2002:ix), a Eurocentric belief that simultaneously fails to consider wider issues such as the importance of these same cultural systems to sustainable development.

Post-development purist Arturo Escobar (1988) discussed such notions. He argues that these comprise “a fictitious construct, an omnipresent discourse of power… [based on] production and circulation… of development economics” (p.429). Further, this has elevated the Eurocentric development pursuit to a position where anything deemed to counter or stymie it – such as cultural practices and systems – are simply deemed an impediment that must be regulated or eliminated (p.429-432). Such discourse feeds the complexity of the traditional/contemporary tension of yaqona and education as presented in this study. This, and the wider issue of culture to development, is clearly of concern to the Fijian Government. The Government acknowledges the importance of culture to “the Fijian way of life” (Williams, 2000:188) but is also looking to “increased levels of labour production” (TPAF, 2009:1) as part of “the achievement of [their] national development goals” (Subramani, 2000:1; also see PSC, 2003:n/a; Fiji Times, 2008a:10; MoE, 2010).

Admittedly, discussion in Chapter 8, which explained yaqona’s post consumptive impacts to cognition, absenteeism, presenteeism and quality education delivery, if considered in isolation from the remaining study, appears damning. However, they have been presented together with the positive attributes of this indigenous substance. These again were the substance’s role in identity formation, notions of empowerment, academic achievement and sustainable development. Comments, such as the reviewer’s above, suggests an ongoing “omnipresent discourse of power… within development economics” (Escobar, 1988:429-32) which tends to delineate the negatives and in turn subvert the benefits. According to psychologists, this is not unusual, and is due to a “confirmation bias” in which people mostly recall negative aspects even though reports “contain an equal number of positive and negative statements” (Nairne, 2011:302). More interesting though is that “people are more likely to remember the negative behaviors of minorities because negative behaviors and minority members are [stereotypically] salient…” (Boniecki & Britt, 2003:59). This last statement bolsters Escobar’s argument of “fictitious discourse” construction concerning the Eurocentric attitude toward developing minority countries and those who have cultural practices that do not reflect those of the developed expectation.

This study makes a clear statement that such stereotypical discourse, present within the Eurocentric development arena – which demands and expects developing countries adopt this development prescription – is unjust, imperialistic, hegemonic and fails to understand or consider wider cultural issues that often have benefit to development. The cultural life-ways of these people must be accorded the same level of value as the Eurocentric model of development. This will allow the positive attributes of culture to be considered and legitimately balanced against what is predominantly a single-minded pursuit of entrepreneurialism, industrialisation, transformation, progression, modernity and Westernisation (Cockley, 2010:149-52). Additionally, developing countries, and those whose life-ways are deeply embedded in the cultural systems and processes that comprise a sense of ‘otherness’ from a Eurocentric perspective, must be supported and encouraged to consider what is at stake for them as a people group when they pursue development based upon that Eurocentric model. Teasdale & Teasdale’s (1992a:1) warning is clear and identifies what is often not considered, that “the loss of culture is at the heart of our educational and social problems”.

This study has focused on the theme of yaqona and education. In considering historical Eurocentric responses to indigenous substance use, it delineates a warning, one that has the potential to create loss, disempowerment and disenfranchisement for the Fijian people should the Fijian Government simply pursue a national growth and economic development strategy that fails to fully embrace their cultural life-ways. This study has not provided answers, but instead has presented data that demonstrates a “simple” solution such as “just stop[ping]
teachers from drinking yaqona on nights before teaching” will not work. Most Fijian teachers, both iTaukei and Fijian, whether yaqona consumers or not, understand the importance of this indigenous substance to their identity and systems of living. Many have stated they will not cease its use regardless of MoE directives or evidence of negative implication. Talanoa has been suggested as the way ahead, an approach that is a “culturally recognised and accepted process” of dialogue (Nabobo-Baba, 2005:393). It encourages the wrestling of issues, considering all sides of the debate, in order to expand on them to seek a locally informed response (Nabobo-Baba, 2005:396-7; Vaka’uta, 2011:8).

This study commenced with a narrative. It will also conclude with one.

THE TEACHER WHO COULD BE BOTHERED

Recently I was drinking yaqona with a group of friends. One commented, “Isa kai [term indicating our vanua relationship], soon you be a doctor-teacher. We proud of you man.” I replied, “But it’s not about the qualification kai. I would give that up in a heartbeat to preserve our culture, to protect our identity”. I went on to explain that this study is much more than that; it’s about the potential for loss regardless of the chosen path. On one hand there is the possible loss of quality education to our youth and the disruption of national development through the over-consumption of our cultural icon. On the other there is the potential loss of who we are – of our cultural identity should yaqona be banned – a loss that would also hinder academic achievement and sustainable development. I added that I see Fiji currently sitting at a juncture, one that has the potential to forge a new way ahead; a ‘Fijian way’ as opposed to fully capitulating to a Eurocentric expectation of what ‘they’ consider is acceptable and appropriate. I concluded with, “Whatever path we follow we could lose. Maybe we could start by asking, what’s more important, development or ‘our’ identity?” My friend hesitated for a moment, and then in a quite contemplative voice offered his response, one that the others in the room unanimously agreed with. “Donu kai, ni sa yali ga na noda itovo, sa oti sara ga o keda”, literally meaning ‘True kai, once we lose our culture we are finished (we are no more, we account for nothing)”.

DOCTORAL THESIS

The Interweaving of Culture, Development & Education


Bole, F. (1972). *The possible conflicts which may arise as a result of individual expectations and communal demands*. Occasional Paper #8. Suva: School of Education, University of the South Pacific.


Byant, G. (1999). *Botanica: The illustrated A-Z of over 10,000 garden plans for new Zealand gardens and how to cultivate them* (3 ed.). Albany: David Bateman Ltd.


Fulton, R. (1922). *Medical practice in Otago and Southland in the early days: A description of the manner of life, trials, and difficulties of some of the pioneer doctors, of the places in which, and of the people among whom, they laboured* (2nd ed.). Dunedin: Otago Daily Times & Witness Newspapers Co. Ltd.


Neil, J. F. (1889). *The New Zealand family herb doctor: A book on the botanic eclectic system of medicine, containing the latest discoveries in medicine and surgery for cure of disease; also a description of the herbs, roots, barks, seeds, extracts, essential oils, &c; of the most important medicinal plants growing in New Zealand, Australia, and elsewhere, together with numerous carefully selected valuable remedies, recipes, &c., with a successful treatment for horses and cattle*. Dunedin: Mills, Dick &Co.


Ng, D. (1997). *How long does it take for food to go through you?* MadSci Network: Anatomy, Thu Apr 3: School of Pharmacy and Medical Sciences, University of South Australia.


Parkinson, S. (1972). *A journal of a voyage to the South Seas, in his Majesty’s ship, the Endeavour. Faithfully transcribed from the papers of the late Sydney Parkinson, draughtsman to Joseph Banks, esq. on his late expedition, with Dr. Solander, round the world. Embellished with views and designs, delineated by the author, and engraved by capital artists*. Adelaide: Australiana Facsimile Editions No. A34: Reproduced by the Libraries Board of South Australia.


Smith, W. (1813). Journal of a voyage in the missionary ship Duff to the Pacific Ocean in the years 1796, 7, 8, 9, 1800, 1,2, &c: Comprehending authentic and circumstantial narratives of the disaster which attended the first effort of the ‘London Missionary Society’. London: Collins & Co.


Vunidilo, K. (2006). Rites and practices of kava ceremonies for highland people of Fiji (The Case of Namosi). (prepared for, although not at the presentation at, the Australian Anthropological Society Annual Conference: Beyond science and art. ‘Relationality, rationality and religious experience in the contemporary Pacific’. James Cook University, Cairns.


APPENDIX A

PUBLIC SERVICE COMMISSION (PSC) ETHNICITIES MEMO (2010)

PSC CIRCULAR

Public Service Commission, Berkeley Crescent, P.O. Box 2211
Government Buildings, Suva. Telephone 3314 588

PSC Circular No. 39 /2010

TO: Permanent Secretaries and Heads of Departments

FILE: 29/685/23/2

SUBJECT: ‘ITAUKEI’ NOW REPLACES ‘FIJIAN’ AND ‘INDIGENOUS FIJIAN’

DATE: 28/07/2010

1. The Cabinet at its meeting on 30 June, 2010 approved the Fijian Affairs [Amendment] Decree 2010, which comes into effect on 1st July 2010. The new law effectively replaces the word ‘Fijian’ or ‘Indigenous’ or ‘Indigenous Fijian’ with the word ‘Itaukei’ in all written laws, and all official documentations when referring to the original and native settlers of Fiji.

2. All Fijian citizens are now called ‘Fijians’

3. It also requires all Government agencies to apply these changes in all their official communication in any form whatsoever.

4. Accordingly, the following changes become effective forthwith:

<table>
<thead>
<tr>
<th>Existing Title</th>
<th>New Title</th>
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<tbody>
<tr>
<td>1. Fijian</td>
<td>Itaukei</td>
</tr>
<tr>
<td>2. Fijian Affairs Act</td>
<td>Itaukei Affairs Act</td>
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<tr>
<td>3. Fijian Development Fund Act</td>
<td>Itaukei Development Fund Act</td>
</tr>
<tr>
<td>4. Fijian Trust Fund Act</td>
<td>Itaukei Trust Fund Act</td>
</tr>
<tr>
<td>5. Ministry of Indigenous Affairs</td>
<td>Ministry of Itaukei Affairs</td>
</tr>
<tr>
<td>6. Fijian Affairs Board</td>
<td>Itaukei Affairs Board</td>
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<tr>
<td>7. Fijian Trust Fund</td>
<td>Itaukei Trust Fund</td>
</tr>
<tr>
<td>8. Institute of Itaukei Language and Culture</td>
<td>Itaukei Institute of Language &amp; Culture</td>
</tr>
</tbody>
</table>

5. Consequentially, all State documents of any nature whatsoever, must also be amended by replacing the word “Fijian” (wherever it currently refers to indigenous Fijians) with the word “I Taukei”

6. If you require any clarification, please contact Mr. Sekove Degei on phone 3100909 ext 1043 or email-sdegei@govnet.gov.fj.

[Signature]

Pemesh Chand
Permanent Secretary for the Public Service
APPENDIX B

KAVA DISTRIBUTION ROUTES

"Distribution of kava drinking areas in the Pacific" (Crowley, 1994:88)

“Suggested routes for the introduction of kava on the basis of linguistic and non-linguistic evidence” (Crowley, 1994:97).

85 Piper wichmanii is a Papua New Guinean species of kava.
APPENDIX C

PUBLIC SERVICE COMMISSION (PSC) YAQONA MEMO 1993

P.S.C.
PUBLIC SERVICE COMMISSION
ALPORT BARTER HOUSE, BERKLEY CRESCENT OFF CARANGA ROAD
P.O. BOX 2311, SUVA, FIJI
TELEPHONE—314 585; TELEGRAMS—PSC SUVA; TELEX—FIU 2222; FAX—(679)—302379

CIRCULAR MEMORANDUM

TO: Permanent Secretaries and Heads of Departments

FILE: 29/660

SUBJECT: YAQONA DRINKING IN GOVERNMENT OFFICES

DATE: 24/8/93

In addition to its traditional significance, yaqona has come to be used as a means of maintaining interpersonal and good industrial relations in the workplace. An offer of a bilo of yaqona is a polite gesture in an office situation bringing about better understanding, not only amongst fellow workers but with the members of the public as well.

2. However, instances have been reported of yaqona drinking being abused and carried to excess. This has led to some officers leaving their desks to congregate for extended periods where yaqona is served thus unnecessarily bringing down negative reactions on the practice.

3. Permanent Secretaries/Heads of Departments are requested to monitor yaqona drinking in their Ministries/Departments and, if necessary, issue guidelines to ensure it does not become counter-productive.

(Winston Thompson)
Secretary for the Public Service
PSC CIRCULAR
Public Service Commission, Berkley Crescent, P. O. Box 2211
Government Buildings, Suva. Telephone 314-688

PSC Circular No. 22/2007

To: Permanent Secretaries and Heads of Departments

Subject: Prohibition of Drinking Yaqona in Government Workplaces

File No.: 29/660

Date: 6th July, 2007

1.0 The abuse and excessive drinking of yaqona in government offices and in the work premises is of increasing concern. This trend is bringing unnecessary negative impression on the Civil Service.

1.1 It is unprofessional
1.2 It adversely affects service delivery
1.3 It is inconsistent with the Public Service Values and the Public Service Code of Conduct.

2.0 The common abuse of yaqona drinking is also denigrating its proper place in the indigenous customs and tradition. Continued abuse of such rites is eroding its ceremonial value and the protocols and decorum of the yaqona ceremony.

3.0 Government employees are strictly prohibited from drinking yaqona during office hours including on government premises.

4.0 Permanent Secretaries and Heads of Departments are instructed to monitor full compliance of this instruction.

This Circular supersedes any prior instruction / policies issued on this subject.

[Taina Tagicakibau]
Permanent Secretary for Public Service, Public Enterprises and Public Sector Reform
APPENDIX E

PRELIMINARY FINDINGS: SOCIO-CULTURAL IMPACTS OF *YAQONA* (NEWLAND, 2008)

**Frequency of kava sessions - days per week**

- No. of respondents
- Days per week

**Average length of kava session**

- No. of hours
- No. of respondents

PowerPoint slide 12

PowerPoint slide 13
APPENDIX F

MINISTRY OF EDUCATION (FIJI) RESEARCH AUTHORITY

----- Original Message ----- 
From: Joji Qaranivalu
To: aporosa@ihug.co.nz
Sent: Tuesday, March 25, 2008 10:44 AM
Subject: Approval to Conduct Research

Mr. S.G. Aporosa,
Hamilton,
New Zealand.

Dear Sir,

Re: Approval to Conduct Research

I am pleased to inform you that your request to conduct further research work on the topic “Yaqona[kava]: A Study of its Impact upon education and development in Fiji” has been approved for 2008 and 2009.

You are to liaise directly with the target schools and personnel to conduct the research. Since “kava” is used in most of the traditional functions and ceremonies in Fiji you are asked to tread on the research work with caution bearing in mind its value and impact on the society as a whole.

As a condition of this approval it would be appreciated that all your findings remain confidential until this Ministry has been furnished with them.

As a proof that this letter is authentic is the use of my personal government e-mail address which is available to government listed users only.

Please contact the undersigned if you need further assistance in this regards. We wish you well in your research work.

Thank you.

Joji Qaranivalu [Mr]
for Permanent Secretary [Education,National Heritage,Culture&Arts]
APPENDIX G

ETHICS APPROVAL: MASSEY UNIVERSITY

31 March 2008

S.G. Aporosa

HAMILTON

Dear [Redacted]

Re: Yaqona and Education in Fiji

Thank you for your Low Risk Notification which was received on 28 March 2008.

Your project has been recorded on the Low Risk Database which is reported in the Annual Report of the Massey University Human Ethics Committee.

Please notify me if situations subsequently occur which cause you to reconsider your initial ethical analysis that it is safe to proceed without approval by one of the University’s Human Ethics Committees.

A reminder to include the following statement on all public documents:

“This project has been evaluated by peer review and judged to be low risk. Consequently, it has not been reviewed by one of the University’s Human Ethics Committees. The researcher(s) named above are responsible for the ethical conduct of this research.

If you have any concerns about the conduct of this research that you wish to raise with someone other than the researcher(s), please contact Professor Sylvia Rumball, Assistant to the Vice-Chancellor (Research Ethics), telephone 06 350 5249, e-mail humanethics@massey.ac.nz”.

Please note that if a sponsoring organisation, funding authority or a journal in which you wish to publish requires evidence of committee approval (with an approval number), you will have to provide a full application to one of the University’s Human Ethics Committees. You should also note that such an approval can only be provided prior to the commencement of the research.

Yours sincerely

Sylvia Y Rumball (Professor)
Chair, Human Ethics Chairs’ Committee and
Assistant to the Vice-Chancellor (Research Ethics)

cc Assoc Prof Regina Scheyvens
School of People, Environment and Planning
PN331

Dr Henry Barnard, HeS
School of People, Environment and Planning
PN402
APPENDIX H

PARTICIPANT INFORMATION SHEET

YAQONA (KAVA), EDUCATION AND DEVELOPMENT IN FIJI

My name is S.G. “Apo” Aporosa and I am a Doctoral student at The Institute of Development Studies at Massey University, Palmerston North, New Zealand.

As part of my Ph.D degree I am writing a thesis that is investigating yaqona, education and development in Fiji. I am required to gather information on the usage of yaqona, education and development in Fiji.

Permission has been granted to conduct this research by the Fijian Ministry of Education and has been assessed as ‘low risk’ by the Human Ethics Committee at Massey University.

I would like to invite you to participate in a brief survey (duration 5 minutes), cognitive test (duration 5 minutes), and/or interview (duration 30 minutes) in which you will be able to share your experiences as they relate to yaqona use and education.

Main apo ke dawa lai natakonai (survey) (5 minutes) ke matikina ke lova, em apani kubalata pariccha (cognitive test) (5 minutes), pih kuch sawan (30 minutes) ke mera ep apri kuch tejurbu (experience) hame bata sakto hain jo ki yaqona aur sisa ko nita hain.

This research is guided by the principles of Vanua Research, a methodology developed by Dr. Unaisi Nabobo-Baba from the University of the South Pacific.

Vanua Research takes into account indigenous knowledges and ways of understanding, relational protocols and vakaturaga.

I would like to thank you for your time and cooperation.

S.G. “Apo” Aporosa

Palmerston North, New Zealand

219
Data collected during the surveys, cognitive tests and interviews will be massed together so that individuals and schools cannot be identified.

Schools will only be named generally as part of geographic locality and school classification. In the limited cases where I wish to identify a person by name, I will first obtain permission from them.

Research means paathshaallao na zikr sarranch mein kia jaayga par keval unki ilaaka ki pahechaan diya jaayga. Agar mujhe kisi ka naam istemaal karana parega to main pahle unki izazat loonga.

Confidential data collected during the research will only be seen by myself and my supervisor.

Upon completion of my thesis, a copy will be lodged at the Massey University Library, the library at the University of the South Pacific and the Fijian Ministry of Education.

Mere is research ki samaapti par, is ka ek nakal (copy) Massey University Library, University of the South Pacific Library, aur Fiji ki siccha mantralay (Ministry of Education) ko diya jaayga.

A summary of the research findings will be made available to those who are interested.

Thank you for your assistance with this research.

S.G. “Apo” Aporosa

Ph: 0064

Associate Professor Regina Scheyvens

(Supervisor. IliuliuVakavuli, Pravechak.)

E-mail: R.A.Scheyvens@massey.ac.nz

Ph: 0064 6350 5701 ext. 2509
APPENDIX I

PARTICIPANT CONSENT FORM

FOMU NI VEVAKADONUI
BHAAG LENE KE LIYE SWIKRITI PART.

YAQONA (KAVA), EDUCATION AND DEVELOPMENT IN FIJI

This consent form will be held for a period of five (5) years.
NA FOMU QO ENA MAROROI TU ENA LOMA NI LIMA (5) NA YABAKI.
E SWIKRITI PART KO PAANCH (5) SAAL TAK KAAM ME LAAAYA JAAYGA.

Hello, I (S.G. “Apo” Aporosa) am doing a research study on yaqona as part of my PhD at Massey University, Palmerston North, New Zealand.
SA BULA SI’A, O AU O “Apo” APOROSA KA’U CAKAVA TIKO E DUA NA VAKADIDIKE NI YAQONA. NA VAKADIDIKE NI VULI TOROCATE (KOROI NI VUKU) NI NOQU VULI ENA MASSEY UNIVESITI, PALMERSTON NORTH, NIUSILADI.

NAMASKAAR, MAIN “Apo” APOROSA APNA PhD KO PAROAHI MASSEY UNIVERSITY, PALMERSTON NORTH, NEW ZEALAND PAR NANGONA PAR EK RESEARCH KAR RAHA HOON.

My supervisor for this research is Associate Professor Regna Scheyvens.
NA NOQU LIULIU NI VAKADIDIKE O A/EPROFESSOR REGINA SCHEYVENS.
MERIE IS PAROAHI KE LIYE, MUJHE MADAD KAR RAHE HAY ASSOCIATE PROFESSOR REGNA SCHEYVENS.

This study has been approved by the Ministry of Education.
NA VAKADIDIKE QO E SA SOLIA NA KENA VEVAKADONUI MAI NA TABACAKACAKA NI VULI.
MERIE IS PAROAHI KO MINISTRY OF EDUCATION NE BHI MAOCA DIYA HAY.

Can you please assist me by allowing me to interview you so that I can better understand your school and how it functions.
AU KEREA NA NOMU VEVUKU HEU VAKATAROOG IKO ME RAVA NIU NA KILA VAVIANKA KINA NA VEVAKAVAVI ENA KOROKINULU.
KYA AAP NERI MADAD KAR SAKTE HAIN, AUR MAIN AAP SE KUCH SAWAAL KAR SAKTA HOON, JO HI MUJHE AAP HI SCHOOL KO ACHI TARAH JAANHE ME MADAD KAR SAKTA HAY.

But first I would like to tell you your rights as a participant:
TAUMADA, AU VLA WASEA NA NOMUNI DODONU KE O VAKTAVITAKI IKO:
PAMLE, MAIN AAPKO APKE ADHKAAR, ISME BHAAG LENE KE LIYE BATADE HOON.

- This study is voluntary, and you do not have to participate in it.
  NA VAKADIDIKE QO E SEGA NI VEVAKASAURATAKI.
  E AAPKO ADHKAAR HAY, AUR ISME BHAAG LENA AAF PAR NIREHAR HAI.

- The information you provide will be kept with utmost confidentiality and your name will not be used unless you first give permission.
  NA I TUKTUKU O NA SOLIA ENA MAROROI KA NA SEGA NI SOLI VAKAVITALIKA NA YACAMYA VAKA VO KE SA SOLIA TAUMADA NA NOMU VEVAKADONUI.
  JO JAANKARI AAP SE MILEGA, WHO GLPT RAKHA JAAYGA, ALR AAPKE NAAM KO BHI KAHI ISTEMAAL NAHI KUA JAAYGA.
Your participation in this research study will be greatly appreciated.

NA NOMJ VAKAITAVI E VAKAVINAVINAKATAKI SARA VAKALEVU.
AAP KA BHAAG LENA, AAP KO BAHT HI AADAR KIYA JUATA HAY.

If you have any questions now or later, please feel free to speak to me.
KE DUA NA NOMJ TARO, EI SOLI TU NA GALALA ME DARU VEITALANOA.
AGAR AAP KE PASS KOI SAAILA HAY TO AAP BE JHIIJAK HUM SE FOOCHE SAKTE HAY.

Again, your participation in this research is voluntary. You are free to say no. If you agree to participate in this research, please sign below.
NA NOMJ VAKAITAVI E SEGA NI VAKAVAURATAKI. KE O VAKADONUYA MO VAKAI-
TAVI, KEREI MO SAINT GA ERA.
EK BAAR PHR SE, IS RESEARCH ME BHAAG LENA AAP PAR NIREHAR HAY. AAP INKAAR EHI KAR SAKTE HAY. AGAR AAP
BHAAG LENA CHAHTA HAY, KIRPYA NICHE SIGN KI JIVEGA.

Thank you very much.
VINAKA VAKALEVU SARA.
DHANYAVAAD.

My signature confirms that I have read and understand my rights, and I am happy to participate in
Aporosa's PhD research entitled Yagona (kava), Education and Development in Fiji.
NA NOQU SAINI ESA VAKADINADINATAKI NIU SA WILIKI KA KILA NA NOQU DOODU
KAU SA MARAU NEU VAKAITAVI TAKI AU ENA VADIDIKI NEI APOROSA NA Yagona
(kava), Education and Development in Fiji.
MAIN VAHAAN SIGN KAR KE YE MAANTA HOON KI MAIN APOROSA KI PHD JO HI NANGONA PAR HAY, USBME BHAAG LENE SE
KHUSH HOON.

_________________________                        ______________________________
Sign. SIGN. SIGN.                        Print. NA YAGONU NAAM.            15/1/08
APPENDIX J

TEACHER SURVEY FORM

CONFIDENTIAL

Your answers will be kept CONFIDENTIAL and individual results will not be discussed or disclosed.

◆ Your participation in this research is greatly appreciated.
◆ NA NOMU VAKAITAVI E VAKAVINAVINAKATIKI SARA VAKALEVU.
◆ AAP KA BHAAG LENA, AAP KO BAHOT HI AADAR KIYA JAATA HAY.

◆ Your participation in this research is voluntary. You are free not to participate.
◆ NA NOMU VAKAITAVI E SEGA NI VAKASAURARATAKI.
◆ EK BAAR PHIR SE, IS RESEARCH ME BHAAG LENA AAP PAR NIRBHAR HAY.
AAP INKAAR BHI KAR SAKTE HAY.

PLEASE PRINT CLEARLY

NAME: __________________________ AGE: ____________

SCHOOL: __________________________ No. OF YEARS TEACHING: __________

MALE: ☐ FEMALE: ☐ ETHNICITY: Indigenous Fijian ☐ Indo-Fijian ☐ Other ☐

ARE YOU MARRIED? NO ☐ YES ☐ HOW MANY DAYS DID YOU TAKE OFF LAST YEAR BECAUSE OF SICKNESS? __________

DO YOU DRINK YAQONA? NO ☐ YES ☐

WHY NOT? ______________________________________________________________

THANK YOU FOR COMPLETING THIS SURVEY. YOUR ASSISTANCE MAY BE REQUIRED AT A LATER DATE.

PLEASE TURN OVER AND CONTINUE ON THE NEXT PAGE
## Teacher Survey - Page 2

Thank you for assisting my research and filling in the following questionnaire. Your answers will be kept confidential and individual results will not be discussed or disclosed.

### Please answer the questions in the following table. The questions relate to **the last 7 days.**

If any of the questions are not clear, please feel free to ask me to clarify them.

<table>
<thead>
<tr>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
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<tbody>
<tr>
<td><strong>During the past 7 days, on which days did you drink yaqona? Please indicate with a tick ✓.</strong></td>
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<tr>
<td><strong>On each of the days you drank yaqona, please indicate your main reason for drinking (traditional, formal/ceremonial, meeting, social, etc.)</strong></td>
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<tr>
<td><strong>On each of the days you drank yaqona, please indicate the time you started drinking.</strong></td>
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<tr>
<td><strong>On each of the days you drank yaqona, please indicate the time you stopped drinking.</strong></td>
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</tr>
<tr>
<td><strong>On each of the days you drank yaqona, please indicate how drunk or intoxicated you felt you were when you finished drinking. Circle one.</strong></td>
<td></td>
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</tr>
</tbody>
</table>

### Do you consider yourself **light**, **medium**, or **heavy** a yaqona drinker?

**Please label one box.**

### Do you currently have kanikani? **No** **Yes**

**Please describe how your kanikani has manifested (e.g. peeling hands, dry flaky arms, sore eyes, etc)?**

---

Thank you for completing this survey. Your assistance may be required at a later date.
APPENDIX K

SEMI-STRUCTURED INTERVIEW QUESTIONS

A) SCHOOL PRINCIPAL INTERVIEW:

1. School description/demographic:
   a Religious affiliation/community board, rural isolated/semi-urban/urban.
   b Student numbers, student demographic?
   c Teacher numbers, teacher demographic?

2. How many years have you been teaching? Rural/urban? Boarding/day scholar? Government/community? (vocational overview)

3. Can you please explain, as a iTaukei/Fijian, the importance of yaqona to your ethnicity?

4. Do you drink yaqona?
   a No – why not?
   b Yes – frequency?
      i How do you feel, body and mind, after a big night of yaqona consumption?
      ii. Do you drink yaqona on nights prior to teaching?
      iii. How many hours, on average, would you drink yaqona on a night before teaching?

5. Is there a difference between the yaqona drinking styles of rural teachers and urban teachers? Please explain?

6. Is there a difference between the yaqona drinking styles of iTaukei and Fijian teachers? Please explain?

7. Is there a difference between the yaqona drinking styles of men and women? Please explain?

8. What about Fijian and iTaukei women? Please explain?

9. Does yaqona play a role in the activities of this school? How/what? How would you explain the importance of yaqona to the functioning of your school (identity, cultural, community...)?

10. If a teachers drinks yaqona for more than 5 hours, finishing at midnight, do you think that this has an impact on the teacher and their teaching as they enter the classroom in the morning?
    a Yes - explain.
    b No – have you noticed a difference between the performance standards of a yaqona drinking teaching and a non-yaqona drinking teacher?
       i Yes - explain.
       ii. No - (go to next question).

11. During my Masters field research in 2006 several teacher supervisors commented that teachers who consumed yaqona tended to score low in the Performance Management System, especially measure one: Initiative and Resourcefulness, and measure five, Punctuality and Attendance. What is your comment regarding this?
a Agree – have you ever spoken to a teacher about the impact that yaqona appears to be having on their teaching?
   i No – why not?
   ii Yes – please explain?

12 Do you allow the consumption of yaqona within the school compound? Under what circumstances? (Board meeting, sporting events, fundraisers, during/after school hours?)

13 Is it standard practice for visitors to the school to present isevevusevu?
   a Do presentations include the mixing and consumption of yaqona?
   b Do teachers attend the isevevusevu? What about their students during this time?
   c How often is yaqona consumed on the school campus? Once a week, once a month?

14 (Show PSC Circular 22/2007): This PSC memo forbids the consumption of yaqona within government establishments, which includes schools in Fiji. However yaqona is being consumed in many school compounds around the country. Can you explain why this is?

15 The MoE, in their Learning Together (2000:214-5) report cited 15 “barriers that impede student learning” and lead to under-achievement in Fiji. These “include: poor attitude to learning, truancy, failure, lack of parental support, conflict between parental expectations and school programmes, family problems, financial problems, environmental restrictions, poor health and nutrition, bad teaching, inadequate student support, insufficient learning resources, and lack of study and learning skills”. There is no specific mention of yaqona.
   a Why do you think this was not added as a factor?
   b Do you think it should be added as a factor? Why, why not?

16 Research has found that Fijian students perform academically better than iTaukei students. However, at the same time research has also shows that more Fijians drink grog than iTaukei. How do you explain this? (day v.s night drinking – longer recovery, solo drinking limits intake).

17 What about Fijian teachers and yaqona consumption? If they are drinking more, is this impacting their teaching?

18 During my research I have often heard the term “grog abuse”. I would like to now talk about the abuse of yaqona and what is meant by this term.
   a Do you think people around here abuse grog?
      i (Yes). Please explain?
      ii (No). Do you know any grog abusers? (Yes). Please explain?
   b How much grog do you have to drink to be an abuser? (Quantify acceptable/non-acceptable use levels).
   c How can I tell an abuser from a non-abuser?

19 If tests on teachers revealed that the consumption of yaqona the previous night was impairing memory and processing speed in the brain and impacting a teacher’s ability to teach, what would you suggest should happen?
   a Nothing – why? (Individual choice – what about student learning choice?)
   b Forbid – how do you police this? What about cultural obligations?
   c Any other suggestions?
   d Value of culturally appropriate awareness programmes?
20 Explain my desire to compare sick leave between yqona drinkers and non-consumers. Is it possible to have those records which will be merged with other schools so as not to identify individuals of schools?
   a Do you think there is link between yqona consumption and sickness? Why/why not?

21 Comments you would like to add?

B) YAQONA DRINKING TEACHER PARTICIPANT INTERVIEW:

1 How many years have you been teaching? Rural/urban? Boarding/day scholar? Government/community? (vocational overview).

2 Is yqona grown in this area? Do teachers farm yqona here?

3 How far would I have to travel to purchase yqona?

4 What is the standard quantity in which yqona is purchased here and what is the price?

5 How much would you estimate the average teacher at this school spends on yqona per week?

6 When there is a drinking session, who mainly supplies the yqona for consumption?

7 You have worked at different schools. What are the differences in yqona drinking styles and habits between the schools you have worked at?
   a What reasons do you believe contributed to these differences?

8 Fiji (questions specifically for):
   a Is yqona important to your culture? What function does it serve?
   b I have consumed a lot of yqona with iTaukei and with Fijians in rural (predominantly) iTaukei schools but I have very little understanding regarding the consumption styles and habits of Fijians in their own communities. Is there a difference in drinking styles between Fijians and iTaukei when you drink as a group? Please explain. (Consumption hours, taki style,...)
   c Do you have tauvu type relationships that encourage competitive drinking? Explain?
   d Do you have cultural obligations that encourage heavy drinking?
   e Please explain the yqona consumption habits of Fijian women?

9 iTaukei (questions specifically for):
   a Is there a difference in drinking styles between Fijians and iTaukei? Please explain. (Consumption hours, taki style,...)
   b What is the difference between competitive consumption driven by masculinity and that driven by culture?

10 Female (questions specifically for):
   a Have you noticed a difference in the teaching styles between male yqona drinkers and non-drinkers? Explain?
   b Have you noticed a difference in the teaching styles between female yqona drinkers and non-drinkers? Explain?
   c Do you feel that male teachers who drink yqona impact female teachers in any way? How?
   d Issues of masculinity (bole) are major aspects in male yqona consumption. Do women have similar pressures? Explain?
   e What is the difference between competitive consumption driven by masculinity and that driven by culture?
11 How do you feel, body and mind, after a big night of *yaqona* consumption?

12 Do you drink *yaqona* on nights prior to teaching?

13 How many hours, on average, would you drink *yaqona* on a night before teaching?

14 Do you ever drink *yaqona* in the school compound? Explain (during working hours, Board meeting, sports events).

15 During the past month, were you ever late for work?
   A IF YES, how many times?
      i. were you drinking *yaqona* the previous night?
      ii. do you believe the *yaqona* was a factor in your lateness? Explain.

16 How many sick days have you had in the past 12 months?
   a Have any of these sick days been because of *yaqona*?
      i. IF YES, how many sick days would you attribute to *yaqona*?
      ii. Do you believe the *yaqona* was a factor in your lateness? Please explain?
   b Do you believe *yaqona* drinkers take more sick days than non-drinkers?

17 Have you ever been spoken to by a supervisor, or a Principal, or HOD, regarding your *yaqona* consumption and work performance? (when, discipline action?)

18 Do you believe teachers who come to work *lomaloma ca* impact the learning of their students? How?

19 Research has found that *Fijian* students perform academically better than *iTaukei* students. However, at the same time research has also shows that more Fijians drink *yaqona* than *iTaukei*. How do you explain this? (day v.s night drinking – longer recovery, solo drinking limits intake).

20 What about *Fijian* teachers and *yaqona* consumption? If they are drinking more, is this impacting their teaching?

21 During my research I have often heard the term “grog abuse”. I would like to now talk about the abuse of *yaqona* and what is meant by this term.
   a Do you think people around here abuse *grog*?
      i. (Yes). Please explain?
      ii. (No). Do you know any *grog* abusers? (Yes). Please explain?
   b How much *grog* do you have to drink to be an abuser? (Quantify acceptable/non-acceptable use levels).
   c How can I tell an abuser from a non-abuser?

22 If tests on teachers revealed that the consumption of *yaqona* the previous night was impairing memory and processing speed in the brain and impacting a teacher’s ability to teach, what would you suggest should happen?
   a Nothing – why? Individual choice – what about student choice?
   b Forbid – how do you police this? What about cultural obligations?
   c Any other suggestions?
   d Value of culturally appropriate awareness programmes?

Comment you would like to add?
C) SPOUSE OF TEACHER:

1 I am trying to understand lomaloma ca and thought that it would be good to speak to the wife/husband of a yaqona drinker. Can you please think about when your husband/wife wakes in the morning after drinking yaqona and when they have not drunk yaqona. Is there a difference in their mood, alertness? What do you notice? (motivation, sleep late, fail to attend to duties, interaction with spouse and kids, eat/don’t eat?)

2 Do you believe your husband/wife teaches the same or worst after drinking yaqona the night before? Please explain?

3 During my research I have often heard the term “grog abuse”. I would like to now talk about the abuse of yaqona and what is meant by this term.
   a Do you think people around here abuse grog?
      i (Yes). Please explain?
      ii (No). Do you know any grog abusers? (Yes). Please explain?
   b How much grog do you have to drink to be an abuser? (Quantify acceptable/non-acceptable use levels).
   c How can I tell an abuser from a non-abuser?

D) QUESTIONS FOR NON-YAQONA DRINKING TEACHER:

1 Why don’t you drink yaqona?

2 What do you think about teachers who drink yaqona?

3 What do you think of teachers who drink yaqona the night before they teach?

4 Do you believe that drinking yaqona the night before teaching has an impact on a teacher’s ability to deliver education? Please explain?

5 Do you feel that teachers who drink yaqona impact you in any way? How?

6 During my research I have often heard the term “grog abuse”. I would like to now talk about the abuse of yaqona and what is meant by this term.
   a Do you think people around here abuse grog?
      i (Yes). Please explain?
      ii (No). Do you know any grog abusers? (Yes). Please explain?
   b How much grog do you have to drink to be an abuser? (Quantify acceptable/non-acceptable use levels).
   c How can I tell an abuser from a non-abuser?

7 Do you feel that teachers who drink yaqona impact you in any way? How?

8 Research has found that Fijian students perform academically better than iTaukei students. Research has also shows that more Fijians drink yaqona than iTaukei. How do you explain this? (day v.s night drinking – longer recovery, solo drinking limits intake).

9 What about Fijians teachers and yaqona consumption? If they are drinking more, is this impacting their teaching?
MINISTER OF EDUCATION, Mr. Filipe Bole.

1. What do you see as the role of education in Fijian national development?

2. What education model/country most influences contemporary Fijian education?

3. What theoretical basis do you believe most influences contemporary education in Fiji? (Modernisation/Human Capital collectivist approach in order to stimulating growth / Freir-ian influenced education for human development, associated with the ideals of individual difference and empowerment)

4. What does the MoE consider as being the role of yaqona within the education system? (i-sevusevu, meeting facilitator, build cultural identity..)?

5. Apologise for the story in the Fiji Times “Academic blames poor results on teachers” which required a rebuttal to clarify this miss-quote. Therefore, realising that the media often misrepresents sources, can I please ask you some questions regarding comments in the Fiji Times which quote you. (Refer article Dec. 12. 08) - This article appeared in the Fiji Times last December in which you “advised [teachers] against yaqona”.

   a. “He responded...... saying yaqona abuse by rural teachers...” Please explain.
   b. The article quotes you as saying “teachers should not in any way be affected by over-consumption of yaqona”. What do you consider to be “over-consumption”?
   c. You were also quoted as saying that for teachers, “it [was] absolutely vital that minds are alert and in tune to the daily classroom procedures.” Do you consider that the “over-consumption” of yaqona alters a teacher’s alertness? Please explain?
   d. The article finishes by quoting you as saying that “We should take yaqona... in moderate amounts.” Can you please quantify “moderate amounts”.

6. The MoE, in their Learning Together (2000:214-5) publication, cited 15 “barriers that impede student learning” and lead to under-achievement in Fiji. These “include: poor attitude to learning, truancy, failure, lack of parental support, conflict between parental expectations and school programmes, family problems, financial problems, environmental restrictions, poor health and nutrition, bad teaching, inadequate student support, insufficient learning resources, and lack of study and learning skills”. There is no specific mention of yaqona.

   a. Why do you think this was not added as a factor?
   b. Do you think it should be added as a factor? Why, why not?

7. In May last year you were quoted in the Fiji Times as saying that 90 “The Education Ministry has identified 72 under-performing schools”. I realise that the main reason cited was a lack of resources, but do you consider yaqona also played a role in the under-performance? Why, why not?

8. During my previous research several teacher supervisors commented that teachers who consumed yaqona tended to score low in the Performance Management System, especially measure one: Initiative and Resourcefulness, and measure five, Punctuality and Attendance. Is this something that has ever been discussed with you? What are your thoughts regarding this?

9. Does the MoE have a policy regarding the consumption of yaqona by teachers during working hours?

10. What about after hours?

11. The PSC in their Circular 22/2007: “Prohibition of drinking of yaqona in Government workplaces”, “strictly prohibit[s the] drinking [of] yaqona during office hours on government premises”. Do you consider that this directive also applies to schools?

12. What about the isevusevu, especially during formal occasions or the visiting of dignitaries?

13. Research has found that Fijian students perform academically better than iTaukei students. Do you believe yaqona plays a role in this? How? What about teacher’s yaqona consumption?

14. If cognitive tests on teachers revealed that the consumption of yaqona the previous night was impairing memory and processing speed in the brain and impacting a teacher’s ability to teach, what would you suggest would be the response of the MoE?
   b. Forbid – how do you police this? What about cultural obligations?
   c. Any other suggestions?
   d. Value of a culturally appropriate awareness programme?

15. Any comments you would like to make.
APPENDIX L

DIGIT SYMBOL-CODING SUBTEST

Digit Symbol - Coding Test

NAME: ____________________________

SCHOOL: __________________________

<table>
<thead>
<tr>
<th>Consumption hours previous night: Start:</th>
<th>Finish:</th>
<th>TOTAL: ______ hrs</th>
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Sample Items

```
+ 1 2 3 4 5 6 7 8 9
\_ L L L O \_ \_ X X =
```

```
2 1 3 7 2 4 8 2 1 3 2 1 4 2 3 5 2 3 1 4
5 6 3 1 4 1 5 4 2 7 6 3 5 7 2 8 5 4 6 3
7 2 8 1 9 5 8 4 7 3 6 2 5 1 9 2 8 3 7 4
6 5 9 4 8 3 7 2 6 1 5 4 6 3 7 9 2 8 1 7
9 4 6 8 5 9 7 1 8 5 2 9 4 8 6 3 7 9 8 6
2 7 3 6 5 1 9 8 4 5 7 3 1 4 8 7 9 1 4 5
7 1 8 2 9 3 6 7 2 8 5 2 3 1 4 8 4 2 7 6
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This test has been adapted and modified from the Wechsler Adult Intelligence Scale (WAIS-III):
### Digit Span Test

**Digit Forward**

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<tr>
<td>2</td>
<td>1-6</td>
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<td>7-9-3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>6-2-8-7</td>
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**Digits Backward**

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**Digits Forward Total Score**

(Number = 16)

**Digits Backward Total Score**

(Number = 16)

This test has been adapted and modified from the Wechsler Adult Intelligence Scale (WAIS-III): Third Edition (Wechsler, 1997:133-5).
APPENDIX N

COGNITIVE TEST CUE CARD

Cognitive test instructions:

(participant must be aged between 20-24 years of age)

DIGIT SPAN TEST (this test second)

**Digits Forward** - “I will say some numbers. Please listen carefully and when I finish, I want you to say them strait after me. Just repeat what I say. So if I say 9-6 (ciwa-ono/nor-chee), you will say?“ “Correct.”

**Digits Backward** – “I am now going to say some more numbers. But this time, when I finish, I want you to repeat the numbers backward. Let’s practice. If I say 9-1-7 (ciwa-dua-vitu/nor-eek-saat), what would say?“ Participant, “7-1-9” (vitu-dua-ciwa/saat-eek-nor). “Yes, that is correct. Ok, here we go”.

**Discontinue test** when participant scores 0 on both trial items.
**Appendix O**

**Full SPSS Output File of Digit-Span Subtest Independent Samples t-test.**

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<th>Digit-Span Scaled Score</th>
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<th>t-test for Equality of Means</th>
<th>95% Confidence Interval of the Difference</th>
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<td>F</td>
<td>Sig.</td>
<td>t</td>
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<td>.357</td>
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<td>Equal variances not assumed</td>
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<td>32.755</td>
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</table>

The Sig. value within the “Levene’s Test for Equality of Variances” is greater than .05, therefore the “Equal variances assumed” are used and the “Equal variances not assumed” are ignored (Pallant, 2007:234-5).

$t$ indicates the “number of degrees of freedom” (Griffith, 2007:328).

The ‘95% Confidence Interval of the Difference’ is the “range around an average into which a specified percentage of the values appear” (Griffith, 2007:324). An example this is the upper and lower quartiles of Figures 8.3 and 8.4.
Appendix P

Full SPSS Output File of Digit Symbol-Coding Subtest Independent Samples t-test.

The Sig. value within the “Levene’s Test for Equality of Variances” is greater than .05, therefore the “Equal variances assumed” are used and the “Equal variances not assumed” are ignored (Pallant, 2007:234-5).

$t$ indicates the “number of degrees of freedom” (Griffith, 2007:328).

The ‘95% Confidence Interval of the Difference’ is the “range around an average into which a specified percentage of the values appear” (Griffith, 2007:324). An example this is the upper and lower quartiles of Figures 8.3 and 8.4.
THESIS EXAMINATION REPORT: PROFESSOR LAMONT LINDSTROM.

THESIS ASSESSMENT REPORT
S. Aporosa, PhD Candidate
“Yaqona (kava) and education in Fiji: Investigating ‘cultural complexities’ from a post-development perspective”
Massey University Dept. of Development Studies

Lamont Lindstrom
Kendall Professor of Anthropology
University of Tulsa
Tulsa, OK, USA 74104

23 January 2013

This is a solid account of Fiji school teachers’ use and understandings of yaqona (kava, *Piper methysticum*) the indigenous Pacific drug substance, its place within school organization, and its possible effects on teacher performance. Mr. Aporosa has used ethnographic, survey, interview, and cognitive testing methods to collect his data and he situates his analysis within a critical, ‘post-development’ theoretical paradigm—a frame increasingly common among Pacific academics and scholars. This PhD work draws on and expands MA research into yaqona’s place within Fijian education that Aporosa previously pursued. He locates his Fiji school research within the compendious literatures of development studies and kava/substance use, demonstrating useful familiarity with both. I can suggest, below, just a few additional sources that might usefully connect up with his research.

Given my own discipline, I read the thesis with an anthropological perspective that colors my remarks and questions. As good theses should, Aporosa’s work calls forth reflection and stimulates interesting questions and, as the overseas examiner, I summarize and focus such reflection in several comments followed by questions that the other examiners might ask during the upcoming oral examination.

A. Traditional/Contemporary Tension: Aporosa introduces the problem of yaqona in schools as one of contradictory appreciation of its cultural importance and its negative effects on teacher productivity. He quotes several Fiji Ministry of Education (MoE) documents and edicts that appear both to prohibit and to allow yaqona use in schools as evidence of this ambiguity and tension in bureaucratic appreciation of the drug: The MoE “both acknowledges the cultural importance of *yaqona*, but questions whether the over-consumption of this indigenous substance is impeding academic achievement through impacts to quality education delivery” (p. iii). Local consumers, whether indigenous Fijian (iTaukei) or Indo-Fijian (Aporosa labels these folks *Fijian*) appear less conflicted in their assessments and many embrace and use yaqona enthusiastically.

Aporosa builds his research around this tension: yaqona is traditional, important for local identity, and otherwise socially functional and yaqona is a cultural impediment to effective teaching insofar as many teachers experience hangovers, or remain in some “steady-state concentration” of kava intoxication and this leads to absenteeism, lethargy, and slower thinking with harmful impact on teaching effectiveness. This sets up an opposition between yaqona (as traditional, cultural, local) and effective education and its demands (as modern, bureaucratic, alien/global). Aporosa does question these simple oppositions and one could further pursue remarks by Brison, Tomlinson, and others he cites to explore and scrutinize simplistic traditional/modern oppositions. Although Fijians themselves certainly appreciate yaqona as part of their local identity, culture, and heritage, and have in fact promoted yaqona as a key symbol of all this, it is clear that the ways in which people use the substance today are not, in fact, primeval traditions inherited from the past but rather practices that
have been deeply and fundamentally shaped by historic colonial and now post-colonial experience. Yaqona is no more traditional than are other everyday social practices in Fiji. Once used by priests and communities mostly at ritual occasions, yaqona today is a recreational drug. Few people in the pre-contact era would have indulged in the 12-hour long marathon drinking sessions and liters of yaqona that Aporosa describes. I suspect also that Indo-Fijians’ use of yaqona predates considerably the 1970s (p. 170) as they too adopted yaqona drinking as a markedly modern, recreational, and sometimes official ritual practice during the colonial era (see Brij Lal’s Chalo Jahaji (2000) and other Girmitiya histories).

Beginning with Fiji’s Deed of Cession in 1874 if not before, yaqona has become an integral part of colonial modernity in that country, working its way into many government, bureaucratic, and business office, typically serving there to refresh and conjoin drinkers both during the working day and afterwards. (Not to deny that marathon evening drinking might indeed affect productivity.) This sort of official yaqona use, at least, resembles the historic place of caffeinated substances (coffee, tea, colas) within modern Western enterprises. Aporosa (chapter 3) summarizes contemporary official hostility to and suspicion of other drug substances within productive enterprises: alcohol (although use of this was indeed widespread in early modern organizations), coca, kawakawa, and betel. In important ways, however, productive modern enterprises have indeed embraced caffeine and (until recently) nicotine as useful stimulants and yaqona, in the Fijian context, might be usefully compared with tea, coffee, and caffeinated soft drinks. In the West, school administrators, teachers, and students alike do themselves regularly with caffeine and nicotine.

The thesis’ most important, contribution, I believe, is an ethnography of kava use in contemporary Fijian educational contexts. It would be interesting also to know more about yaqona’s use, significance, and appreciation or deprecation in other sorts of contemporary government and business organizations in Fiji; I suspect significant parallels would be discovered.

QUESTION: Fijians appreciate yaqona and its use as a key symbol of enduring tradition, cultural identity, and vakavanua. But would you agree that it today has become a key component of everyday modernity with different meanings and importance than it once had? Why or why not (or otherwise comment)?

B. Yaqona’s Effects: Aporosa, a good ethnographer, pursues his subjects’ own belief that overindulgence in kava does indeed affect one’s moods, motivations, and productivity. As he points out, though, clinical evidence here is ambiguous. Studies elsewhere have found that kava intoxication fades fairly quickly, does not have longer-term physiological effects, and is non-addictive. These, though, have been conducted with lower doses of the psychoactive kavalactone components than appear to be typically consumed by Fijian teachers some of whom can down 75 cups and 19,950 mgs of kavalactones during one evening.

One might well suspect that these large doses do indeed affect physiological and cognitive processes and Aporosa deployed two standard cognitive tests (of working memory and of word/symbol matching) to measure this. His results, however, also are ambiguous. One admires Aporosa’s success in collecting cognitive data which must have been difficult outside a cognitive-psych lab and also difficult given local drinkers’ cultural and social commitments to yaqona. In his conclusion, he proposes future research that might employ a placebo (although one wonders, given kava’s notable flavor, what might serve as such). He compared results from a control group of young male and female non-drinkers with drinkers. Another approach, although perhaps not a feasible one, would be to test the same subjects after drinking and also after some period of abstention in some randomized approach. This might have addressed some of the small n worries. Nonetheless, cognitive testing of 18 active users, compared with 18 nonusers, found somewhat slower symbol-coding skills. But median difference between nonusers and active drinkers in symbol-coding timing wasn’t huge; testing identified no significant difference in working memory skills between drinkers and nondrinkers and, in fact, some drinkers did better here than non-drinkers and this could lead one to argue that kava improves working memory; Official records, at least (p. 140), indicate that kava-drinkers take fewer sick leave days than non-drinkers and one

91 See Appendix T, p.248.
thus could argue that yaqona *improves* teacher attendance (although Aporosa is no doubt right to suspect these data); and, given the underlying MoE concern that iTaukei children do less well in school than Indo-Fijian children, Aporosa’s finding that Indo-Fijian teachers (who tend to teach in schools that serve their own community) drink *more* kava than do iTaukei needs further exploration. Their higher yaqona use isn’t lowering pedagogic productivity, it seems, at least when it comes to student success with testing and progression through the educational system.

I agree with Aporosa that more research into yaqona’s cognitive and behavioral effects is needed to tease out whether kava use does indeed cause such performance effects or merely correlates with them. Those teachers who turn to serious yaqona use could already be the most committed and productive teachers (and Aporosa documents the importance of sharing yaqona for school and community spirit); or heavy yaqona users might come from the most politically and socially disaffected teachers (given bad governance, Fiji’s ethnic strife and conflict) and they already may be less engaged, hostile, and less productive than teachers who are more committed to the system, turning to heavy yaqona drinking in response to their disaffection with educational bureaucracy and leadership. More school ethnography would help address these possibilities.

Whatever kava’s physiological and cognitive effects turn out to be, the fact that Fijians *believe* that yaqona has those effects is a significant one. Here, I could suggest a classic examination of drug use (the history of alcohol, in this case, among Native Americans), *Drunken Comportment: A Social Explanation* (1969) by R. Edgerton, C. MacAndrew, and D. Heath. This study suggests that alongside a drug’s actual chemical effects, people’s responses to these substances depend also on their shared cultural expectations. Different cultures, for example, have presumed alcohol to lead to peaceful sociability or to brawling and strife; or marijuana either to dreaminess or to intense readiness for hard work. Likewise with yaqona. If one believes that it can cause hangover and dopiness, it no doubt does—especially if one can use yaqona indulgence as an excuse for “can’t be bothered” the next day. It is notable that Fijians have a term for yaqona hangover (*lomaloma ca*) that Aporosa explores. In Vanuatu, in comparison, where kava drinking practices and expectations differ from those of Fiji, there is no common term for kava hangover and T. Crowley’s Bislama dictionaries do not include one.

**QUESTION:** Are there ways that yaqona might *improve* teacher productivity given what you know about its physiological/cognitive effects or Fijian cultural expectations of those effects?

C. *Self-Worth and Academic Achievement*: Chapter 9 does a good job making a case for yaqona’s educational functions. These include ensuring parental and community school support and cooperation, school fees payment and fundraising, encouraging cooperative meetings and consensual decision-making, teaching students national identity and vakavanua, and improving relations among iTaukei and Indo-Fijian staff (especially since they often live together in school-provided housing) in a recent political context where these have been seriously conflicted. Aporosa also argues that Fijian identity and self-worth themselves (p. 61) are important factors in successful student learning and achievement. But the research he cites comes generally from studies of minority students who struggle in larger metropolitan systems in Australia, North America, and elsewhere. iTaukei students, instead, are the majority community and yet they still do less well in school, on average, than their Indo-Fijian compatriots.

**QUESTIONS:** How much can we rely on studies of the importance of self-esteem and a positive cultural identity for educational success in minority communities elsewhere to explain the situation in Fiji where iTaukei children, bureaucrats, policy-makers, and political leaders are in the majority? Why, after several generations during which the state (colonial and postcolonial) and local communities together have managed and governed schooling are Fiji schools still seen by iTaukei children as alien or forbidding, as you imply?
D. **Modernity, Personhood, Religion**: Some of the fiercest critics of yaqona/kava in Fiji, as elsewhere in the Pacific, are members of the newer, evangelical Christian churches. These folks embrace modernity and ideals of the person, the family, tradition, and the community in ways different from the more established churches (and from activist scholars like Aporosa, Nabobo-Baba, etc.). The most serious attacks on kava use come not from government bureaucrats or business leaders seeking to improve productivity, but from evangelical Christians pushing personal responsibility and social morality. These attacks paint a positive image of modernity and imagine drug-free persons and families inhabiting this. Aporosa gives several examples of such attacks in Fiji (including one from a former police commissioner) but how serious are they? He argues that abolition is no solution, given yaqona’s symbolic weight in Fiji and given that this would merely invite people to switch to other recreational substances. (And here he might have a look at the theory of “alien poisons”—that substances used in some sort of balanced manner are often harmful when imported into a new society that lacks a network of coping mechanisms.) Instead of abolition, he suggests (although he leaves it to Fijians to propose) possible harm reduction strategies.

How likely is such prohibition? Will New Methodists and others succeed in erasing yaqona as key symbol of Fijian identity more easily to ban its use? If yaqona can be reframed to be old-fashioned, stale, uncool, this becomes a simpler task. More specifically, how is yaqona holding up in the face of marijuana? In Vanuatu, for instance, young men are rapidly turning to marijuana use although they add this to their kava drinking rather than replace this.

QUESTIONS: What of yaqona futures? Will yaqona remain a key symbol of Fijian identity, or will Christian and other attacks on its use encourage people to shift to other substances? What are the students doing (and I’m sure not all wait until age 16 to drink yaqona)? Are they still committed to yaqona or are they shifting to other available substances that better signify enhanced modernity and shared global identity? Comment.

E. **Vanua Research**: Aporosa identifies his project with parallel attempts among Pacific scholars to establish local forms of research and academic practice. (Such concern that research both reflect local community concerns and contribute to locally-defined needs, actually, is not much different from that expressed by the American Anthropological Association’s own code of ethics, or by national research policies (e.g., Vanuatu’s).) Aporosa (chapter 2) provides a history of development paradigms beginning with post-WW2 modernization theory and then running through underdevelopment theory, dependency theory, world systems theory, neoliberal globalization, to various contemporary local criticisms of development per se that he labels “post-development.” His citation of the relevant literature in development studies looks good to me although there are important parallel studies coming from history, economics and anthropology (by F. Fanon, I. Wallerstein, E. Wolf, G. Spivak, J. Scott and many others) that one could cite. When it comes to criticism of old-fashioned modernist educational practice and policy, Aporosa relies on Paulo Freire who is indeed a standard source although the thesis connects this criticism with the post-development wave of the 1990s when Freire, actually, began back in 1970 with *Pedagogy of the Oppressed*.

Fiji’s Vanua Research model, that Aporosa has borrowed from Nabobo-Baba, as a critique of Western research practice shares much in common with Linda Smith’s demands for *Decolonizing Methodologies: Research and Indigenous Peoples* in Aotearoa/New Zealand, ‘Okusitino Mahina’s Tongan-centric history, or much of the work of younger Pacific scholars presented at recent ASAO meetings (see *Anthropological Forum* 15(3) Special Issue: Critical Ethnography in the Pacific: Transformations in Pacific Moral Orders).

Aporosa is committed to the Fijian version of such localization of research and he is careful to document that his own research was invited (by the Fiji MoE) and to write for and share his results with a local as well as an academic readership. He is also wary of making suggestions for improving educational practice that might follow upon his results but rather suggests leaving these decisions to local actors who might determine by themselves whether to respond to teacher yaqona consumption, and how, in consensual *talanoa* events. He has a point that many calls for Vanua research or otherwise locally-informed investigations have been more
programmatic than specific, and his yaqona research does offer a case study by someone who has taken the post-development paradigm and Vanua research seriously.

Aporosa situates himself as a member of the iTaukei community which helped facilitate his research. If I calculate correctly, he has a Fijian great-great-great-great-grandmother. In that he worked with both indigenous Fijian (iTurkai) and Indo-Fijian (Fijian) school staff, I wonder if he believes these local identity claims colored his relations with the later. (And it seems he has Fijian language skills but must have used English with Indo-Fijians unless he also has ability in Fiji Bat?)

**QUESTIONS:** Given your identification with the iTaukei community, did this affect your access to and relations with Fijian (Indo-Fijian) teaching staff? How does one pursue Vanua research where the Vanua is politically divided?

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Finally, I note here a few items in the thesis that could lead to misunderstanding; I’ll let the other examiners decide whether these are significant enough to request minor emendations:

- p. 31: the “leaf” component of the betel plug is not *Areca* palm leaf but rather the leaf, stem, or catkin of the *Piper Betle* vine.
- p. 32: The PNG Tok Pisin term for betel is *buai*, not *buwa*
- p. 37: Vanuatu’s official council of chiefs is the Malvatumauri (or National Council of Chiefs), and not “Great Council of Chiefs” or (later) Vanuatuan Council of Chiefs.
- p. 38: Margaret Titcomb is a she.
- p. 161: In addition to the Cook Islands, colonial Christian-influenced kava prohibition also succeeded on Kosrae in Micronesia.
APPENDIX R

THESIS EXAMINATION REPORT: ASSOCIATE PROFESSOR KABINI SANGA.

New Zealand Examiner’s Report

Candidate: S. Aporosa


Doctor of Philosophy (in Development Studies),
Massey University.

Introductory comments

This is a commendable thesis which has satisfied the requirements for a PhD. Except for the length and a few other issues (which could well be clarified during oral), the thesis is outstanding, overall. The work started off with a real life episode which introduces well, the complex issue under investigation. The thesis posed three useful and insightful questions and thoroughly investigated these with independence and insight. The research approach used and the findings obtained have both been original, significant and intellectually stimulating. Technically, the work is comprehensive and, generally thorough. The writing is of the highest professional standards.

I had enjoyed reading this thesis for a number of reasons. First, this work is among the first to apply an indigenous Pacific research framework (Vanua Research Framework) as part of a doctoral study; thereby contributing to the further development of this particular research approach. Second, consistent with Vanua research philosophy; the research is like a breath of fresh air in its respectful stance, its honouring of people and in the evidences of generosity portrayed in this work. Third, I have also appreciated this research for its perceptive and balanced insights to complex contextual issues and for its exemplary scholarship. I therefore congratulate Aporosa and his supervisors for a job, done well.

Specific comments

In line with the recommended criteria of Massey University, I offer the following further comments:

Literature

Undoubtedly, the researcher has clearly demonstrated command of comprehension and understanding of a diverse, yet relevant body of literature. The areas canvassed have included development and culture, indigenous substance, education and development in Fiji and yaqona and education. The texts identified are of quality and reviews of these are consistently comprehensive and effective. There is an obvious mastery in the use and citation of key literature sources. As well, the researcher has shown a high level of analytical yet balanced evaluation of supporting and alternative viewpoints.

Study of the topic

Both the general topic of culture and schooling and the specific topic of yaqona use and schooling in Fiji and the Pacific are fascinating for Fiji/Pacific educators, policy or development specialists. Consequently, the researcher’s tackling of these topics is admirable. The study appears to reflect a sophisticated and tactful approach to a complex and loaded topic. The researcher has also clearly outlined and maintained the idea of sites of tension in tradition-contemporary and yaqona-school teaching delivery in this work.

For the Fiji Ministry of Education, the specific idea of the research is worth exploring through an empirical study. For countries of the Pacific region, including Australia and New Zealand and other developing nation states, the culture-schooling tension is a key educational issue, again, worthy of attention. The practical,
cultural and policy values of this work are therefore of considerable interest to Fiji and the wider Pacific region.

As stated, the thesis has provided a comprehensive study of the topic. The three research questions posed appear to have been very well-thought out. Their answers are equally clear, insightful and appropriate. Throughout, the researcher has shown an adequate examination of the topic with insight and a great deal of sensitivity. For me, however, two issues remain unclear, as represented by the following questions:

1. In the narratives of the researcher as well as in the descriptive study data, there appear to be this consistent deferring to culture and, this is partly justified as vakaturanga. Is this a case of iTaukei enslavement to culture?
2. The research project ended without a clear or definite “action” answer to the particular culture-schooling tension dealt with in the study. Instead, “talanoa” is suggested as a useful means to start looking into this complex issue. What does this “process” and “dancing” oriented answer tell us about culture? …about researching in indigenous contexts? …about post-development scholarship?

Methodology
Using Nabobo-Baba’s Vanua Research Framework (VRF), this thesis exposes the richness of researching from a post-development perspective. As well, this work stretches the Vanua Research Framework by including cognitive assessment into a paradigmatically subjectivist research orientation. A further positive point is that at an operational level, the VRF and its associated methods, practices and practicalities have been clearly and soundly described and appropriately applied.

Some issues of methodology, however, are not as clear, hence, these questions:
1. What if any, was/were the reason(s) for the absence of a discussion on the philosophical paradigm within which this research sits?
2. Given the substantive experience of this project and its rich application of the VRF, what is needed for an initial theorization of VRF to be included in the methodology section?
3. How was the qualitative data analysed?

Findings
The findings of the study are presented according to the three research questions in an orderly and thorough manner. Covering chapters 7, 8 and 9, the findings are coherently presented with supporting evidence, counter evidence and balance. In Chapter 10, the findings are beautifully woven in summary form in answer to the research questions. As stated, the findings do reflect highly developed analytical and synthesizing skills on the part of the researcher. More so, the extent of sensitivity and maturity in reading and reporting the findings more broadly; are evidences of vakaturanga!

Presentation/Language
Undoubtedly, this thesis is of a very high literary quality. The overall presentation appears thorough and meticulous. Each chapter begins with a clear introductory overview, an ordered body and a concise conclusion. Section headings are clearly marked and justified. Paragraphs are well-presented. The writing style is appropriate, accurate and of a very high professional standard. Referencing is consistent and appendices carefully checked and presented.

As a scholarly work, the report descriptions, analyses and insights are clear, coherent and defendable. In the end, the finished report is highly organized and professionally presented.

As a scholarly Pacific work, the presentation and language are very pleasing and commendable.

Contribution
As stated in my opening comments, this work is commended. In my view, it has made significant original contributions to global scholarship generally and specifically (to development, education, research frameworks, culture and all the associated middle grounds of these areas). The final chapter has offered an impressive
list of the specific ways in which this work has (1), put a stake on the ground (as in starting a new area of development) or (2), added to our knowledge and or (3), offered significantly new interpretations to existing understandings in the subject matters covered.
The suggested list of further research is well-thought out and valuable.

As a piece of Fiji, Pacific and indigenous work, this thesis is original in its nature and contributions; and pivotal to the further development of indigenous Pacific research frameworks and their usefulness to inform the negotiation of complex development tensions, in-context.

Undoubtedly, the researcher is familiar with the subject matter of his thesis and can be assured that he is making important contributions to the relevant global scholarship on schooling, cultural identity and living in a more complex and open world.

Many parts of this work, if appropriately captured, are of considerable educational value to every-day parents, teachers and villagers in Fiji, Vanuatu, wider regional and the Pacific diaspora. More so, this work is publishable in scholarly avenues and the author is encouraged to disseminate the findings and the insights contained in this thesis to the Fiji MOE and other local, regional, New Zealand and wider global audiences.

Kabini Sanga, PhD.
Associate Professor
Faculty of Education
17 March, 2013.
APPENDIX S

THESIS EXAMINATION REPORT: DOCTOR ROCHELLE STEWART-WITHERS.

Examiners Report

**Student:** S. ‘Apo’ Aporosa

**Title:** Yaqona (kava) and education in Fiji: Investigating ‘cultural complexities’ from a post-development perspective

**Examiner:** Dr Rochelle Stewart-Withers, IDS, School of PEP, Massey University

**Overview**
This is most definitely a fantastic piece of work. I really enjoyed reading this thesis and I look forward to discussing this work further during the oral.

This report is written in a reflective manner as I muse over ideas and points made by the candidate and is underpinned by two key questions I asked myself constantly while examining the work. Firstly, does the candidate do what he set out to do, does he do this well, in terms of conceptualisation and methodology, and secondly, in what ways does this work contribute in a cutting edge way to development studies and again, does the candidate argue the case well, linking the findings back to earlier and further literature, generating new knowledge? Which to answer both these questions up front, yes, he absolutely does! Therefore any critique I offer in this report is mostly minor, and my main goal as part of the oral will be to have dialogue about the work/process.

While marking the thesis I have made a number of pencil marks throughout regarding inconsistencies with presentation and stylistic issues for change, and typos, none of which disrupts the narrative or the power of the argument. This marking throughout the thesis may not be as comprehensive as it ought to be because my reading and examining of this work occurred over a period of time and was not at all linear. There were definitely sections that I read quickly, sections I read word for word and other sections I read and re-read numerous times. The candidate should look to address these in presenting the final polished copy.

**Specifics**
The introductory chapter is planned and written very well, the language of the thesis is clear, with the patterns to be used regarding presentations stated. I also enjoyed the playing with language and the adapting of phrases to suit, e.g. participating-interpreter and perpetual statements of inaccuracy. It is obvious that attention to detail has occurred. The personal story at the beginning captured my attention immediately and the chapter in its entirety sets the scene for the thesis as it should do. Given this, and to get straight to the point, this thesis seeks to untangle (with all its layers and complexities) the traditional/contemporary tension of yaqona (a cultural keystone species) use and quality education delivery. It is understood to represent a tension due to the fact it is a traditional Fijian cultural practice, yet evidence would suggest that excessive consumption of yaqona is becoming problematic because it inhibits performance of duties in non-traditional professional environments, such as the civil service and teaching. Thus in terms of education it impacts the contemporary pursuit of development informed by education. To aid in this untangling 3 key research questions are asked.

1. What are the yaqona consumption habits of Fijian teachers, and what role does culture play in this?
2. Does yaqona impact teacher cognition, sickness and absenteeism and if so, what effect does this have on education delivery?
3. Does yaqona play other positive roles in the school environment, and if so, what action should be taken regarding teacher yaqona use, considering that yaqona is central to culture?
Literature (topic, theory, context)
The candidate demonstrates a nuanced reading and understanding of the literature and has been able to identify, extract and synthesis the critical elements and themes from an extremely wide range of materials. I am very impressed with the length the candidate has gone to in terms of reading, drawing upon, interrogating literature to construct his argument. The argument is systematically developed and I enjoyed reading all of these early chapters. I definitely felt I learnt something. As an ex-clinician in mental health with a background in substance misuse/abuse I particularly enjoyed reading Chap. 3 which unpacked indigenous substances (culturally and in terms of modernity) and these debates also resonate with me. I would agree with the powerful concluding point that to forgo their indigenous substance is not that simple, given this relationship with culture/identity/relationships/the land etc.

The use of a post-development lens is something I am also familiar with. It is good to see a solid critique of post-development and recognition of various limitations as post-development debates definitely sit along a spectrum, with some ideas such as McKinnon’s etc., about the need to move beyond critique and consider practical post-development applications, holding more weight. This is not to diminish the important contribution made by the likes of Escobar etc. Chap. 4 is well presented and comprehensive, as is Chap. 5. Again Chap. 5 is another fascinating chapter whereby I learnt a lot.

Methodology
This thesis uses post-development thinking and a Vanua research framework to guide the study and this alignment works. The way that the candidate has sought to innovatively use, for example cognitive assessment, as a part of this methodology also works, and as I understand it is also a first. In the mental health/psychology arena there is definitely evidence of indigenous people (Māori) adapting Western assessment tools and critiquing and theorising in terms of their worldview or developing their own culturally relevant tools, however the alignment in this thesis is definitely a first. This is something I am interested in discussing in more detail during the oral.

The methodology chapter illustrates a clear level of reflexivity and awareness about a number of really important issues, e.g. positionality (insider/outsider issues, depth of membership), issues of power, the potential for self-experimentation and the rationale for why not. This chapter alone could be worked up into a really nice publication and could make a major contribute to the ‘research methodology’, or ‘fieldwork’ literature.

I definitely feel this thesis is very strong, perhaps indeed stronger because the candidate was an insider and also an outsider. Again this is an area that I would enjoy having a discussion about at the oral exam. The ethics process is clearly articulated, again showing a deep level of reflection.

Use of the word anonymity may need reconsideration as I think what the candidate is talking about is confidentiality. Anonymity generally lends itself to a situation where even the researcher doesn’t know the identity of the participants, such as in an online survey or postal survey. I am happy to discuss this idea.

The methods used to collect the data are suitable and the candidate has gone to great lengths to ensure what occurs is valid and rigorous by planning well and also seeking support or advice from experts. Triangulation occurs which adds value and credibility to the process and the results.

Sometimes while reading the methodology I did have to return to areas to remind myself about how many participants, the sampling process, the sample size, in relation to a particular data collection method. Some areas felt a little cumbersome due to the detail, however I also note the detail is important in terms of understanding process. I think a table summarizing all or perhaps a diagram might help, it is clearer in the concluding chapter. I will look to discuss this during the oral too.

I liked the use of cognitive testing, something I am familiar with, as a means of data collection to answer RQ 2.
Extensive consideration has obviously been given to the appropriateness of this too and the limitations of the tools. It is good to see methodology limitations outlined. I did laugh when reading about the candidates potential for impairment, and own tensions with data collection, thesis writing and *yaqona* consumption. Nothing quite like the lived experience!!

**Findings**

The findings are interesting and valuable and make a major contribution to new knowledge, not only because this study actually provides research evidence as oppose to anecdotal evidence, but because some of the findings are surprising, e.g. consumption by ethnicity and some evidence of higher consumption related to gender. I like the way that the candidate has really sought to make sense of, unpack these findings, in relation to the earlier literature and in terms of offering a deeper more critical analysis to the subject.

With respects to RQ 1: The importance of culture and *yaqona* consumption is made explicit, particularly as this relates to identity for both *itaukei* and Fijians and identity and notion of self-worth are integral to scholastic achievement. Also noted is the importance of *yaqona* use in the school arena to inter-ethnic socialisation. Quality education delivery requires strong staff cohesion and collegiality. Hence there is an explicit relationship between *yaqona* use, culture, identity and educational attainment. This is illustrated well.

With respects to RQ 2: Drawing on evidence from psychometric testing comparing the concentration, S/T memory and attention ability etc between active (*yaqona* consuming) and control (non-consuming) teachers as they enter the classroom to deliver education there are some differences recorded and while not conclusive I would agree the narratives tell a compelling story. When these findings are considered also in relation to RQ 1 there is clearly a traditional/contemporary tension.

With respects to RQ 3: The positive role of *yaqona* use within the school setting is clear, many schools depend on *yaqona* for survival and consumption and *isevusevu* is essential to school maintenance, gaining financial backing, encouraging community support and so forth. The contrasting opinions sections only further highlights why the issue is so complex with respects to action. The importance of local voices and local responses to local issues is privileged, which is in keeping with post-development principles. The fact that the issue defies a simplistic answer or approach and the bringing in of talanoa to untangle further the complexities also works. I note the possibilities of awareness rising programmes also.

Finally the conclusion to the thesis is strong given the clear tensions. The findings are reiterated and as I wrote at the start of this report the research contributes to new knowledge in a number of ways. To end where I commenced this report, this is a really impressive thesis, conceptually, and empirically. It is eloquently written, the reflection sections were really helpful, the thesis does have some small corrections to ensure it is a polished end product, however as I said these do not distract from the reading of the thesis. I really enjoyed reading this work and I would like to thank-you for giving me the opportunity to examine it. I look forward to discussing the research further during the oral.

Dr Rochelle Stewart-Withers
26th March 2013
APPENDIX T

INDENTURE PERIOD USE OF YAQONA BY FIJIAN'S: A POST-STUDY FIND.

In his report that followed the examination of this thesis, Professor Lamont Lindstrom (Appendix Q, p.238) stated, I “suspect... [Fijian] use of yaqona predates considerably the 1970s”, suggesting I consult Chalo Jahaji: On a journey through indenture in Fiji (Lal, 2000). This text contains five references to yaqona. One of these is yaqona use by a post-girmitya store owner during the resolution of a land dispute (p.372) prior to Independence, suggesting the 1960s (p.369). The second is the drinking of yaqona in 1992 (p.378,382,385). However, the third is specific to the indenture period. It commences by presenting several songs that had been written and sung during that time which described the “miseries” of plantation life (p.115) for the Girmitya. Lal (2000:115) then explains that in the midst of the “crowded and ugly ‘coolie lines’”, songs were also sung to “create fleeting niches of happiness”. One of these was about yaqona. The lyrics include—

I have left my country, and my caste,
I have left my parents behind also,
But I cannot leave yaqona.
Yaqona is the Bhang (drug) of this island,
Which we drink to pass our nights.
I cannot leave yaqona. (p.116).

This clearly demonstrates the use of yaqona by Fijians during the indenture period, some 70 years before commentators such as Prasad (2004: 209-211) and Voigt-Graf (personal communication, April 25, 2010) suggest yaqona was first adopted by this ethnicity.

The ‘yaqona song’ though raises a second point of interest. It suggests that this use may have comprised part of compensatory strategies (together with ‘songs of happiness’) to assist the “miseries” experienced by the indentured Fijians. This then supports my argument in which I suggested yaqona has been used by contemporary Fijians as a soothing anxiolytic to assist post-Independence challenges (see p.121).