

Day 1 (Monday, October, 1)			
	8:30-9:00	Registration	
Welcome Remarks	Opening Remarks		
	9:00-9:15	Rector Universidad de Antofagasta/ Rector Universidad de Santiago	
	9:15-9:25	Albemarle representative	
	9:25-9:30	Organizing committee IWLIME 2018	
First day: Energy storage and Lithium Batteries			
Chairman Dr. Svetlana Ushak			
Plenary Session	9:30-10:30	Advanced Energy Storage systems for enabling electrification of vehicles "lithium ion & beyond"	Dr. Khalil Amine Argonne National Laboratory- USA
	10:30-10:55	The industrial path for obtaining Lithium precursors for LIBs: High purity LiOH * H ₂ O	Dr. Mario Grágeda CELiMIN-Universidad de Antofagasta, Chile
	10:55-11:15	Coffee Break	
Oral Sessions	11:15-11:40	Storage with batteries and their contribution to the variable renewable energies integration	Dr. Marcelo Cortes SERC-Universidad de Chile, Chile
	Chairman: Dr. Marcelo Cortes		
	11:40-12:05	Previous studies of electrochemical characterization of electrode materials for Lithium-Air cells	Dr. Erika Meza Universidad Arturo Prat, Chile
	12:05-12:20	Effect of synthesis temperature on the structural and electrochemical properties of Mg doped LiMn ₂ O ₄ spinel cathode for lithium-ion batteries	Aleksei Llusco CELiMIN-Universidad de Antofagasta, Chile
	12:20-12:35	The impact of lithium on the possibility of electric mobility for military vehicles	Claudio Roberts Universidad Adolfo Ibañez, Chile
	12:35-12:50	Production of Mg(OH) ₂ of high purity from bischofite of Salar de Atacama	Adrián Quispe CELiMIN-Universidad de Antofagasta, Chile
	12:50-14:20	Lunch Break + Tea Time	
Chairman: Dr. Marcos Lujan			
Plenary Session	14:20-15:20	Solar technology innovations and opportunities of application for Li and industrial minerals	Dr. Luisa F. Cabeza Universidad de Lleida, Spain

Oral Sessions	15.20-15:50	New Li Extraction tech and production quotas. A primary analysis of their impact upon Chile Lithium Operation Contracts and Quotas.	Patricio Aguilera CChEN, Chile
	15:50-16:20	Research trends in Lithium ion-based batteries	Dr. Oscar Miguel CIDETEC Energy Storage, Spain
	16:20-16:35	Coffee Break	
	Chairman: Dr Yanio Milian		
Oral Sessions	16:35-17:05	Exergy Analysis of Solar Exergy Accumulation Systems Using PCMs for HVC and Refrigeration	Dr. Marcos Lujan Universidad Católica Boliviana "San Pablo", Bolivia
	17:05-17:20	Lithium based molten salt melting process optimization at pilot plant scale	Mauro Henríquez Universidad de Antofagasta, Chile
	17:20-17:35	Effects of Soiling on the Performance of PV Technologies in the Atacama Desert	Daniel Diaz CDEA-Universidad de Antofagasta, Chile
	19:00-21:00	<p>Reception British Embassy</p> <p>The objective is to welcome the participants of the workshop and take the possibility to make brief presentations on their topics. At the end of the event, there will be a cocktail in which all the guests will have the opportunity to make networking</p>	Address: Gertrudis Echenique 96

Day 2 (Tuesday, October, 2)			
Second day: Applications of Thermal Storage, Lithium Processes and lithium batteries			
Chairman: Dr. Luisa Cabeza			
Oral Sessions	9:00-9:25	Synergy between thermal and electrical storage: Use of PCM in Thermal control of ion batteries	Dr. Svetlana Ushak CELIMIN, Universidad de Antofagasta, Chile
	9:25-9:55	Analysis of PCM for thermal insulation and inertia	Dr. Aymeric Girard Universidad Adolfo Ibañez, Chile
	9:55-10:10	Thermodynamic prediction of eutectic inorganic mixtures as PCM for heating applications	Nicole Reinaga CELIMIN - Universidad de Antofagasta, Chile
	10:10-10:25	Synthesis of lithium salts shape stabilized phase change materials (SS-PCMs) by sol-gel process	Dr. Yanio Milian CELIMIN - Universidad de Antofagasta, Chile
	10:25-10:40	Experimental and numerical study of the implementation of MePCM modified plasterboards in the thermal performance of a test enclosure	Dr. Diego Vasco Universidad de Santiago de Chile (USACH), Chile
	10:40-10:55	Application of Potassium carnallite waste for thermochemical seasonal solar heat storage	Verónica Mamani CELIMIN-Universidad de Antofagasta, Chile
10:55-11:15 Coffee Break			
Chairman: Dr. Helena Braga			
Oral Sessions	11:15-11:35	Effect of additives on size and shape of lithium carbonate crystals	Dr. Teofilo Graber Universidad de Antofagasta, Chile
	11:35-11:50	Preparation and characterization of manganese oxide electrodes oriented to the elaboration of a lithium battery	Adrián Salazar Universidad Católica Boliviana San Pablo, Bolivia
	11:50- 12:05	Quaternary sulfides ACuFeS ₂ for lithium battery cathodes	Sergio Conejeros Universidad Católica del Norte, Chile
	12:05-12:25	Challenges of Lithium solutions and Andean Brines	Oswaldo Yañez SQM Company

	12:25-13:00	SEI Chemistry, Degradation, High Rate Materials and New Approaches for Solving the Structures of Amorphous Electrode Materials	Clare Grey Cambridge University, UK
	13:00-14:30	Lunch Break + Tea Time	
	Chairman: Dr. Daniel Barraco		
Plenary Session	14:30-15:30	High-Voltage All-Solid State Rechargeable Battery	Dr. Helena Braga University of Porto, Portugal University of Texas, USA
Oral Sessions	15:30-16:00	Demand and supply of lithium for electric vehicles and energy storage	Dr. Evi Petavratzi British Geological Survey (BGS), UK
	16:00-16:15	Development and study of the transport phenomena of an electro dialysis reactor with bipolar membranes to obtain high purity LiOH	Alonso Gonzalez CELIMIN- Universidad de Antofagasta, Chile
	16:15-16:30	Coffee Break	
	Chairman: Dr. Antonio Zárate		
Oral Session	16:30-16:50	Carbon Nanotubes Modified with MN4 and MN5 catalysts for the Oxygen Reduction Reaction	Federico Tasca Universidad de Santiago de Chile (USACH), Chile
	16:50-17:20	Can Europe Produce Lithium: Current European Research?	Chris Broadbent Wardell Armstrong, UK
	17:20-17:35	The capability of national suppliers to meet the future demand for lithium	Daniel Calisaya Universidad de Antofagasta, Chile. Lappeenranta University of Technology, Finland.
	17:35-17:50	Comparison of models for the state of charge estimation of lithium-ion cell	Víctor Pizarro Universidad de Antofagasta, Chile
	17:50-18:50	Posters Session/ COCKTAIL IWLIME 2018	

Day 3 (Wednesday, October, 03)		
Third day: Energy storage and nanomaterials		
Chairman: Dr. Sergio Conejeros		
Plenary Session	9:00-10:50	Inorganic and hybrid thin-film devices for solar energy harnessing Dr. Arturo Martinez CINVESTAV-Mexico
	10:50-10:10	Plasmonic effect of metallic nanoparticles and two-dimensional materials Dr. Antonio Zarate Universidad Católica del Norte, Chile
Oral Sessions	10:10-10:40	Molecular self-assembled monolayers onto metallic and oxide metallic surfaces: a route to control the interfacial properties of Lithium-Ion Battery electrodes Dr. Marcos Flores Universidad de Chile, Chile
	10:40-11:00	The market for lithium batteries, retail, industry and transport Patricio Jarpa Nanotec Company
	11:00-11:20	Coffee Break
Chairman: Dr. Mario Grágeda		
Oral Sessions	11:20-11:40	New materials for lithium-ion batteries, perspectives and projections Dr. Domingo Ruiz Universidad de Santiago de Chile (USACH), Chile
	11:40-12:10	Lithium Market Outlook: Perspectives and Challenges Daniela Desormeaux SignumBOX
	12:10-12:40	Scaling of active materials for energy storage Dr. Daniel Barraco Universidad de Córdoba, Argentina
	12:40-13:00	Cathode materials for lithium batteries studied in LFES Francisco Herrera Universidad de Santiago de Chile (USACH), Chile
13:00-14:30 Lunch Break + Tea Time		
Chairman: Dr. Lindley Maxwell		
Oral Sessions	14:30-15:00	Argentinian Bio-carbons for lithium-sulfur batteries Dr. Guillermina Leticia Luque Universidad Nacional de Córdoba-CONICET, Argentina.
	15:00-15:20	Lithium and Industrial Minerals & Metal Mining, a virtuous interaction. Dr. María Elisa Taboada Universidad de Antofagasta, Chile
	15:20-15:35	Solubility and Physical Chemical Properties of the Additive Quaternary System LiCl+CaCl ₂ +MgCl ₂ +H ₂ O at 25 and 40°C Yuliana Michea Universidad de Antofagasta, Chile
	15:35-15:50	Application of the Hargreaves Process and crystallization to obtain Potassium Sulphate from Potassium Chloride from the Salar de Uyuni Jhoselin Contreras IIDEPROQ-Universidad Mayor San Andres, Bolivia
15:50-16:05 Coffee Break		

Short Course	16:05-18:05	Hard rock ore processing for lithium production	Martin Rosser (CEO) and Nicholas Welham (principal technical consultant) from Alexander Mining, UK
	Closure		