

OSES2017 DAY 0 Tuesday July 11, 2017 HOLIDAY INN FALMOUTH			DAY ZERO
TIME	SESSION	ACTIVITY	
1830-2030	BK	OSES2017 ICEBREAKER! (LET'S GET THIS THING STARTED) Holiday Inn, Falmouth 1830hrs Cocktails, Hors d'oeuvres	
OSES2017 DAY 1 Wednesday July 12, 2017 507 CLARK BUILDING, WHOI QUISSETT CAMPUS			DAY ONE
TIME	SESSION	ACTIVITY	
0745-0845	BK	DELICIOUS BREAKFAST	
0845-0900	INTRO	OPENING REMARKS and WELCOME OSES CHAIRS (<i>Rupp Carriveau, Seamus Garvey, Tonio Sant</i>) and WHOI* DIRECTOR (<i>Mark Abbott</i>) *LEARN MORE ABOUT YOUR WORLD RENOWNED HOST: WOODS HOLE OCEANOGRAPHIC INSTITUTION - Schedule a WHOI Summer Walking Tour - Monday Thru Friday 1030hrs and 1330hrs. Book in Advance! http://www.whoi.edu/main/summer-walking-tours	
0900-0930	S1	SESSION 1: PLENARY TALK The Potential of US Offshore Wind <i>Dr. Jon McGowan</i> Editor in Chief, Wind Engineering Professor, University of Massachusetts Amherst	
0930-1015	S2	SESSION 2: OFFSHORE ENERGY GENERATION TECHNOLOGIES: WIND PANEL LEAD: <i>Dr. Alex Slocum</i> , Neil and Jane Pappalardo Professor of Mechanical Engineering, Mac Vicar Faculty Fellow, MIT	
0930-0945	S2.1	A Symbiotic Approach to the Design of Offshore Wind Turbines with Other Energy Harvesting Systems <i>Maha Haji, Jocelyn Kluger, Themistoklis Sapsis, Alexander Slocum</i> Massachusetts Institute of Technology	
0945-1000	S2.2	Performance Analysis of a Hybrid Offshore Floating Wind, Solar and Thermocline Energy System <i>Daniel Sant, Tonio Sant, Robert N. Farrugia and Daniel Buhagiar</i> University of Malta	
1000-1015	S2.3	Shared Mooring Systems for Floating Offshore Wind Farms <i>Matthew Hall, Patrick Connolly, Kellen Devries</i> University of Prince Edward Island	
1015-1030	BK	ENERGIZING BREAK	
1030-1130	S3	SESSION 3: OFFSHORE ENERGY GENERATION TECHNOLOGIES: WAVE AND TIDAL PANEL LEAD: <i>Dr. Cliff Merz</i> , Chairman, Marine Technology Society (MTS) Marine Renewable Energy (MRE) Committee	
1030-1045	S3.1	Study of a Novel Oscillating Surge Wave Energy Converter <i>Michael A. Choiniere, Nathan M. Tom, Krish P. Thiagarajan</i> University of Maine, National Renewable Energy Laboratory	
1045-1100	S3.2	Flow Generation in a Circular Wave/Current Basin <i>Guangming Li, David Inghram, Donald Noble, Hidemi Mutsuda and Nick Polydorides</i> University of Edinburgh, Hiroshima University	
1100-1115	S3.3	Gulf Stream Marine Hydrokinetic Energy Off Cape Hatteras, North Carolina <i>Mike Muglia, Patterson Taylor, John Bane, Harvey Seim, Sara Haines; Ruoying He, Andre Mazzoleni, Chris Vermillion</i> UNC Coastal Studies Institute, UNC Chapel Hill, N C State University, UNC Charlotte	
1115-1130	S3.4	The Effect of Supercapacitors in a Tidal Current Conversion System using a Torque Pulsation Mitigation Strategy <i>Marios Sousounis, Jonathan Shek</i> University of Edinburgh	
1130-1230	BK	NUTRITIOUS LUNCH	
1230-1300	S4	SESSION 4: PLENARY TALK Offshore Energy Economics <i>Dr. Chris Qin, (Dr. Eric Loth)</i> Research Scientist, University of Virginia	
1300-1400	S5	SESSION 5: OFFSHORE ENERGY INTEGRATION PANEL LEAD: <i>Dr. Sandy Williams</i> , OSES2017 WHOI Chair, Scientist Emeritus, Woods Hole Oceanographic Institution	
1300-1315	S5.1	Design and Analysis Tool for Power Systems with Large Scale Wind Power and Energy Storage <i>James F. Manwell, Jon G. McGowan, Dwayne Breger</i> University of Massachusetts Amherst	
1315-1330	S5.2	A Series Hybrid "Real Inertia" Energy Storage System <i>J.P. Rouse, S. D. Garvey, T. Davrenne, B. Cardenas, B. Kantharaj and J. Garvey</i> University of Nottingham	
1330-1345	S5.3	Using Electricity Storage for Peak Shaving on Low Voltage Distribution Networks <i>Andrew J. Pimm, Giorgio Locatelli</i> University of Leeds	
1345-1400	S5.4	Integration of Renewable Sources to Power Public Transport at the Island of Pantelleria <i>Biagio Passione, Giovanni Bracco</i> Politecnico di Torino	

1400-1415	BK	INVIGORATING BREAK
1415-1500	S6	SESSION 6: OFFSHORE ENERGY ENABLEMENT: ECONOMIC TOOLS PANEL LEAD: Dr. Andrew Pimm, Research Fellow, School of Chemical and Process Engineering, University of Leeds
1415-1430	S6.1	Energy Storage Financing – Learning From and Partnering with the Renewable Energy Industry <i>Lindsay Miller, Rupp Carriveau</i> Environmental Energy Institute, University of Windsor
1430-1445	S6.2	Using Real Options for the Investment Appraisal of Large Energy Storage Systems <i>Giorgio Locatelli, Andrew Pimm; Diletta Colette Invernizzi</i> University of Leeds
1445-1500	S6.3	The Integration of Drone-Harvested and SCADA Data in Wind Energy Investment Decision Support <i>Ryan Francis, Lindsay Miller, Rupp Carriveau, Danny Ellis</i> Environmental Energy Institute, University of Windsor, SkySpecs
1500-1545	S7	SESSION 7: PLENARY TALK Massachusetts Clean Energy Centre: Leading Strategic Investment In Clean Energy Systems <i>Nils Bolgen</i> Wind Program Director, MassCEC
1700-1900	BK	OSSES2017 BEACHSIDE CLAM BAKE BANQUET GALA (IT'S A GITDOWN) Landfall Restaurant, Woods Hole *NOTE* Post Dinner Cocktails To Follow Informally At Another Exciting Village Location (TBA Night Of)
OSSES2017 DAY 2 Thursday July 13, 2017 507 CLARK BUILDING, WHOI QUISSETT CAMPUS		
TIME	SESSION	ACTIVITY
0800-0900	BK	DELICIOUS BREAKFAST
0900-0930	S8	SESSION 8: PLENARY TALK EOLINK Floating Offshore Wind <i>Dr. Marc Guyot</i> CEO EOLINK
0930-1030	S9	SESSION 9: OFFSHORE ENERGY STORAGE TECHNOLOGIES: COMPRESSED AIR PART 1 PANEL LEAD: Dr. James Manwell, Director, Wind Energy Center, University of Massachusetts Amherst
0930-0945	S9.1	Pumped Seawater Combined with Compressed Air Energy Storage System: An Integrated Solution for Co-Storage/Production of Electricity and Freshwater for Offshore Islands <i>Wei He, Yang Wang, Jihong Wang</i> University of Warwick, Coventry
0945-1000	S9.2	A Comparative Study of the Liquid, Solid and Hybrid Adiabatic Compressed Air Energy Storage (A-CAES) Systems <i>Haobai Xue, Alexander J White</i> University of Cambridge
1000-1015	S9.3	Evaluating a New Concept for Integrating Compressed Air Energy Storage in Spar-type Floating Offshore Wind Turbines <i>Tonio Sant, Daniel Buhagiar, Robert N. Farrugia</i>
1015-1030	S9.4	Micron-sized Water Spray Cooled Quasi-isothermal Compression for CAES <i>Guanwei Jia, Weiqing Xu</i> Beihang University
1030-1045	BK	ENERGIZING BREAK
1045-1130	S10	SESSION 10: OFFSHORE ENERGY STORAGE TECHNOLOGIES: PUMPED FLUID PANEL LEAD: Dr. Daniel Friedrich, Chancellors Fellow, University of Edinburgh
1045-1100	S10.1	Initial Design and Performance by CFD on a Small Pump-turbine System for Ocean Renewable ESS <i>Patrick M. Sing, Young-Do Choi</i> Mokpo National University
1100-1115	S10.2	Project Terra: Innovative Urban Pumped Hydro <i>Cameron Lewis</i> Hydrostor
1115-1130	S10.3	A New floating Energy Storage System Based on Fabric <i>Robert Klar, Bernd Steidl and Markus Aufleger</i> University of Innsbruck, Austria,
1130-1215	BK	NUTRITIOUS LUNCH
1215-1330	S11	SESSION 11: OFFSHORE ENERGY STORAGE TECHNOLOGIES: THERMAL PANEL LEAD: Dr. Alex White, Senior Lecturer, Energy Group, Cambridge University
1215-1230	S11.1	Combined Pumped-Thermal and Liquid-Air Energy Storage Cycle <i>Pau Farres-Antunez, Haobai Xue, Alexander J White</i> Cambridge University
1230-1245	S11.2	Effect of Design Parameters on the Exergy Efficiency of a Utility-Scale Packed Bed <i>B. Cárdenas, T. R. Davenne, J. P. Rouse, S. D. Garvey</i> University of Nottingham
1245-1300	S11.3	Thermodynamic Performance and Cost Optimization of a Novel Hybrid Thermal and Compressed Air Energy Storage System Design <i>S. Houssainy, M. Janbozorgi, P. Kavehpour</i> University of California, Los Angeles

DAY ONE

DAY TWO

1300-1315	S11.4	A Novel Approach to Thermal Storage for CAES Systems <i>Seamus Garvey, B. Kantharaj, B Cardenas, M. Simpson, J.E. Garvey, P. Codd, and T. Davenne</i> University of Nottingham	DAY TWO
1315-1330	S11.5	The Stability of Packed Bed Thermoclines <i>T. Davenne, S. D. Garvey, B. Cardenas, J.P. Rouse</i> University of Nottingham	
1330-1345	BK	INVIGORATING BREAK	
1345-1415	S12	SESSION 12: PLENARY TALK Revolutionary Freshwater Offshore Wind in Ohio <i>Dr. Lorry Wagner</i> CEO, Lake Erie Energy Development Corporation (LEEDCO)	
1415-1500	S13	SESSION 14: OFFSHORE ENERGY STORAGE TECHNOLOGIES: COMPRESSED AIR PART 2 PANEL LEAD: <i>Cameron Lewis</i>, Founder and CTO, Hydrostor Inc.	
1415-1430	S13.1	Energy Regulation of an Offshore Floating Wind Turbine Through Variable Production of Desalinated Water and Compressed Air Storage <i>A. Stefanakou, I. Dagkinis, E. Antoniou, T. Lilas, N. Nikitakos; A. Maglara, A. Vatistas</i> University of the Aegean and ECOWINDWATER LTD	
1430-1445	S13.2	Tubular Bags <i>Javier Mas</i> Universidad de Santiago de Compostela, Spain	
1445-1500	S13.3	Exergetic Analysis of Cavern-Related Phenomena for CAES <i>Alexander J White</i> University of Cambridge	
1500-1600	S14	SESSION 14: INTERACTIVE WORKSHOP: OFFSHORE ENERGY and STORAGE SECTOR: BARRIERS AND OPPORTUNITIES WORKSHOP LEADS: <i>Dr. Rupp Carriveau</i>, Director, Environmental Energy Institute, Professor, University of Windsor <i>Dr. Seamus Garvey</i>, Director of the Rolls-Royce UTC in Gas Turbine Transmission Systems, Professor, University of Nottingham	
1615-1715	BK	OSSES2017 POWER OPTION: TALK AND TROT WITH ALEX SLOCUM Ironman Athlete Alex will lead a <u>friendly</u> (right Alex?) jaunt around the Village. Bring your activewear to change into directly at Conference Site (CLARK BUILDING, WHOI QUISSETT).	
OSSES2017 DAY 3 Friday July 14, 2017 507 CLARK BUILDING, WHOI QUISSETT CAMPUS			
TIME	SESSION	ACTIVITY	DAY THREE
0800-0900	BK	DELICIOUS BREAKFAST	
0900-0945	S15	SESSION 15: OFFSHORE ENERGY SYSTEM ENABLEMENT: TECHNICAL TOOLS PANEL LEAD: <i>Dr. Tonio Sant</i>, Mechanical Engineering Head, Professor, University of Malta	
0900-0915	S16.1	SurfROVER: An ROV for Littoral Zone Survey Work <i>Timothy Crandle, Matthew Cook, Geoffrey Cook, Edward Celkis</i> SeaView Systems, Inc.	
0915-0930	S16.2	Flow Velocity Mapping with Acoustic Tomography in a Circular Wave/Current Basin <i>Guangming Li, David Ingram, Arata Kaneko and Noriaki Gohd, N.Polydorides</i> University of Edinburgh	
0930-0945	S16.3	Numerical Analysis on Mooring Tension of Offshore Submerged Floating-Type Mechanical Hybrid ESS <i>Ji-Hoon Park, P. Chanaka Hasitha Weerasena; Young-Ho Lee</i> Korea Maritime and Ocean University	
0945-1000	BK	ENERGIZING BREAK	
1000-1030	S17	SESSION 17: PLENARY TALK THE LEADING EDGE OF OFFSHORE AUTONOMOUS DRONE DATA COLLECTION <i>Danny Ellis</i> CEO, SkySpecs	
1030-1130	S18	SESSION 18: OSSES SOCIETY: INDUSTRY PROGRESS AND FUTURES PANEL PANEL LEADS: <i>Rupp Carriveau, Seamus Garvey, Tonio Sant</i> OSSES2017 Chairs	
1130-1230	BK	LUNCH TO GO!	
1330-1515	BK	WHOI RESEARCH VESSEL BOARDING TOUR R/V Atlantis or R/V Neil Armstrong Tour Will Be Arranged Pending Ship Availability. Transportation To The DOCKS Will Leave at *Roughly 1330hrs from CLARK. Transportation From the DOCKS to CLARK will Leave at *Roughly 1500hrs. *CONFIRM FINAL TIMING AND LOCATION DETAILS DAY-OF WITH OSSES/WHOI STAFF.	