

<b>DAY 1   THURSDAY JULY 10<sup>TH</sup> (All Sessions in CEI 1101)</b>		
<b>SLOT</b>	<b>TIME</b>	<b>ACTIVITY</b>
1	0745	Lancer Coach Departs Caesars Windsor Hotel For University of Windsor Centre for Engineering Innovation (CEI)
2	0800-0845	Breakfast and Registration
3	0900-0940	Keynote 1: The Global Growth of Offshore Wind   Professor Jon McGowan, University of Massachusetts Amherst, Chief Editor Wind Engineering
4	0945-1015	A Panel Conversation: What's Driving the Growth of Offshore Energy Generation and Storage   Panel Lead: Rupp Carriveau
		<i>Featuring Commentary From:</i> Jon McGowan, Professor, University of Massachusetts Amherst, Seamus Garvey, Neville Rieger Professor of Dynamics, University of Nottingham, and Rupp Carriveau, Director, Turbulence and Energy Laboratory [Panel Lead].
5	1015-1030	Refreshment Break
6	1030-1115	Panel Presentations and Discussion: Offshore Energy Storage: The State of the Art - Hydrostor and Toronto Hydro Commercial UWCAES Facility   Panel Lead: Rupp Carriveau
		<i>From Concept to Construction: The World's First Grid Connected UWCAES Facility,</i> Curtis VanWalleghem, CEO, Hydrostor Inc.
		<i>Offshore Energy Storage - A Utility Perspective,</i> Gary Thompson, Lead Generation Planning and System Studies, Toronto Hydro.
		<i>Tools for Optimization of a UWCAES Facility,</i> Rupp Carriveau, Director, Turbulence and Energy Laboratory [Panel Lead].
7	1120-1150	Panel Presentations and Discussion: Challenges Facing the Industry   Panel Lead: Mark Tinkler
		<i>Planning and Integration Challenges for Offshore Storage,</i> Gary Thompson, Lead Generation Planning and System Studies, Toronto Hydro.
		<i>Coastal/Offshore Regulatory Considerations,</i> Joe Van Overberghe, Manager, Petroleum Operations Section, MNR.
		<i>Featuring Commentary From:</i> Curtis VanWalleghem, CEO Hydrostor), Gary Thompson, Lead Generation Planning and System Studies, Toronto Hydro, and Mark Tinkler, Senior Energy Consultant, Customized Energy Solutions, [Panel Lead].
8	1200-1300	Lunch and Keynote 2: Symbiotic Offshore Energy Harvesting and Storage Systems   Professor Alex Slocum, Massachusetts Institute of Technology, Pappalardo Professor of Mechanical Engineering, MacVicar Faculty Teaching Fellow
9	1300-1345	Panel Presentations and Discussion: Lessons From Other Sectors   Panel Lead: Mark MacKew
		<i>Structuring Policy to Incubate and Sustainably Grow a New Sector,</i> William Fyfe, McCarthy Tétrault LLP.
		<i>Large Grid Scale Renewables and the Municipality,</i> The Honorable Randy Hope, Mayor, Chatham-Kent.
		<i>The Importance of Social License to Operate,</i> Mark Michael MacKew, MacKew Law [Panel Lead].

10	1355-1440	<b>Panel Presentations and Discussion: Emerging Science and Technology for Coastal/Offshore Generation and Storage   Part A   Panel Lead: Andrew Pimm</b>
		<i>Demonstration of a Utility Scale Storage System in a 10 MW Wind R&amp;D Park, Marianne Rogers, (Wind Energy Institute of Canada).</i>
		<i>Thermodynamic Analysis of a Hybrid Energy Storage System Based on Compressed Air and Liquid Air, Bharath Kantharaj*, Seamus Garvey, Andrew Pimm [Panel Lead] (University of Nottingham).</i>
		<i>Economic Benefits of Hydraulic-Electric Energy Storage Wind Turbines, Elijah Innes-Wismatt*, Chao Qin, Eric Loth (University of Virginia).</i>
		<i>Flow Induced Vibrations of an Underwater Energy Accumulator, Ahmadreza Vasel-Be-Hagh*, Rupp Carriveau, David S-K Ting (Turbulence and Energy Laboratory).</i>
11	1440-1455	<b>Refreshment Break</b>
12	1455-1540	<b>Panel Presentations and Discussion: Emerging Science and Technology for Coastal/Offshore Generation and Storage   Part B   Panel Lead: Tim Newson</b>
		<i>North Sea Offshore Network and Energy Storage for Large Scale Integration of Renewables Ole Christian Spro *, Raymundo E. Torres-Olguin (SINTEF Energy Research), Magnus Korpås (Nowegian University of Science and Technology).</i>
		<i>Effects of Pre-Tension on Flow-Induced Vibration of a Flexible Circular Cylinder Subjected to Uniform Cross Flow, Hoayang Cen, Mojtaba Ahmadi-Baloutaki*, David S-K Ting, Rupp Carriveau (Turbulence and Energy Laboratory).</i>
		<i>Evaluating the Underwater Compressed Air Energy Storage Potential in the Gulf of Maine, Carson Pete*, Jon G. McGowan, Walter Jaslanek, (University of Massachusetts, Amherst).</i>
		<i>Surface response investigation of parameters in the development of FeS based iron electrodes, Jorge Omar Gil Posada*, Peter J. Hall (University of Sheffield).</i>
13	1545-1700	<b>OPTION 1A:</b> Alex Slocum's 5k RiverView 'Trot and Talk' Ending at Caesars Windsor [See Details In Your Registration Package]
		<b>OPTION 1B:</b> 3.9k CampusView Walkloop Ending at St. Denis Athletic Centre [See Details In Your Registration Package]
	1545-1700	<b>OPTION 2:</b> University of Windsor, Centre for Engineering Innovation Tour
14	1700	<b>Lancer Coach Departs St. Denis Athletic Centre for UWin CEI</b>
15	1715	<b>Lancer Coach Departs UWin CEI for Caesars Windsor Hotel</b>
16	1730	<b>Lancer Coach Departs Caesars Windsor Hotel for Pelee Island Wineries Tasting and Banquet</b>
17	2130	<b>Lancer Coach Departs Banquet for Caesars Windsor Hotel</b>

<b>DAY 2   FRIDAY JULY 11<sup>TH</sup> (All Sessions in CEI 1101)</b>		
<b>SLOT</b>	<b>TIME</b>	<b>ACTIVITY</b>
18	0745	<b>Lancer Coach Departs Caesars Windsor Hotel For University of Windsor Centre for Engineering Innovation (CEI)</b>
19	0800-0845	<b>Breakfast and Registration</b>
20	0900-0940	<b>Keynote 3: Marine Renewables and Energy Storage - The Case for Integration   Professor Seamus Garvey, Neville Rieger Professor of Dynamics, Director of the Rolls-Royce UTC in Gas Turbine Transmissions</b>
21	0945-1030	<b>Panel Presentations and Discussion: Emerging Science and Technology for Coastal/Offshore Generation and Storage   Part C   Panel Lead: Graham Reader</b>
		<i>A Novel Concept for Isobaric CAES, Edward Barbour*, Yongliang Li, Yulong Ding, Jonathan Radcliffe, (University of Birmingham)</i>
		<i>Estimating the Capital Costs of Energy Storage Technologies for Levelling the Output of Renewable Energy Sources, Dimitri Mignard* (The University of Edinburgh)</i>
		<i>CFD Analysis on the Compressed Air Energy Storage Process by Multistage Pump, Ji-Hoon Park*, Byeong-Jun Kim, Chang-Goo Kim, Young-Ho Lee (Korea Maritime and Ocean University)</i>
		<i>The Economics of a Hybrid Energy Storage Plant, Andrew J. Pimm*, Seamus D. Garvey (University of Nottingham)</i>

22	1030-1045	<b>Refreshment Break</b>
23	1045-1145	<b>Panel Presentations and Discussion: Moving Energy Innovation into the Commercial Coastal/Offshore Space   Panel Lead: Carole Champion</b>
		<i>Strategic Sparking of Fundamental Research</i> , Alexandra Reid, Research and Innovation Development Officer, NSERC.
		<i>Connecting the Applied Academic Lab to Industry</i> , Carole Champion, Energy Industrial Sector Lead, Ontario Centres of Excellence.
		<i>Marching Industry Innovation Into Market</i> , Ian Philp, Director of Operations, Advanced Energy Centre at MaRS Discovery District.
24	1150-1250	<b>Lunch and Elevator Pitches</b>
25	1255-1355	<b>Panel Presentations and Discussion: Storage Market Dynamics   Panel Lead: Matt Davison</b>
		<i>An Overview of Energy Storage Ontario</i> , Bob Stasko, Executive Director, Energy Storage Ontario.
		<i>Valuing Storage in a Deregulated Market</i> , Matt Davison, Canada Research Chair in Quantitative Finance, Western University.
		<i>Storage Origins and Long Term Prospects</i> , Mark Tinkler, Senior Consultant, Customized Energy Solutions.
		<i>Storage Market Insights for Emerging Regions</i> , Rahul Walawalkar, VP, Emerging Tech & Markets, Customized Energy Solutions.
26	1355-1440	<b>Panel Presentations and Discussion: Emerging Science and Technology for Coastal/Offshore Generation and Storage   Part D   Panel Lead: Horia Hangan</b>
		<i>Wind Resource Assessment in Complex Urban Environments</i> , Ashkan Rasouli, DJordan Romanic, Horia Hangan* [Panel Lead] (WindEEE Research Institute)
		<i>Assessment of OWC Performance Using 3D Finite Difference Numerical Modelling</i> , Mohammad Javad Ketabdari* (Amirkabir University of Technology), Farzan Khorasani (Ferdowsi University of Mashad), Sayyad Boreyri (Amirkabir University of Technology), Vahid Karami (Sahand University of Technology).
		<i>Interruption in Oil and Gas Energy Supply due to Failure in Pipeline</i> , Hossein Ghaednia*, Sreekanta Das, Sudip Battacharjee (University of Windsor).
		<i>Thermosyphon Thermal Capacitor Storage System</i> , Joseph Ouellette (The Acrolab Group).
27	1440-1455	<b>Refreshment Break</b>
28	1455-1540	<b>Panel Presentations and Discussion: Emerging Science and Technology for Coastal/Offshore Generation and Storage   Part E   Panel Lead: David S-K Ting</b>
		<i>Tower Mass Savings and Energy Storage Capacity of Hydraulic-Electric Hybrid Wind Turbines</i> , Chao Qin* and Eric Loth (University of Virginia).
		<i>Power Generation from Airflow Induced Vibrations</i> , Abishek Nayyar*, Vesselin Stoilov (University of Windsor).
		<i>From Oil to Renewable - The Potential of the Mexico Shoreline</i> , Gerardo Martínez Narro*, Paul H. Henshaw, David S-K Ting [Panel Lead] (Turbulence and Energy Laboratory).
		<i>Optimization of Storage Revenues</i> , Adam Hutchinson (University of Warwick).
		<i>Commercial Grid Scaling of Energy Bags for UWCAES</i> , Maxim de Jong (Thin Red Line Aerospace).
29	1545-1605	<b>Synthesis by Delegation: The Road Ahead   Agenda for Growth   Lead: Jamie C. Smith</b>
30	1615	<b>Lancer Coach Departs UWin CEI for Caesars Windsor and/or Homebound Transportation Hubs</b>