

OSES2024 DAY 2   Thursday July 11, 2024   SMAST EAST   836 South Rodney French Blvd. New Bedford		
TIME	SESSION	ACTIVITY
0800-0900	BK	FABULOUS BREAKFAST
0900-0930	S9	<p><b>SESSION 9: PLENARY TALK</b>  <b>Offshore Wind: Why Aren't We Going Faster?</b>  <b>Dr. Chris Niezrecki</b>  Dean and Professor  Distinguished University Professor; Director, Center for Energy Innovation; Co-director, Structural Dynamics &amp; Acoustic Systems Laboratory; Co-director, RIST Institute for Sustainability and Energy  University of Massachusetts Lowell</p>
0930-1030	S10	<p><b>SESSION 10: OFFSHORE ENERGY STORAGE TECHNOLOGIES 1</b>  <b>SESSION CHAIR: Mr. Bill Hurley</b>, Hurley Maritime Consulting</p>
0930-0945	S10.1	<p><b>Simulation of a Decentralized Offshore Wind Hydrogen Production System With Hydro-Pneumatic Energy Storage And Subsea Isobaric Hydrogen Storage</b>  <i>Hu Wang*, Wei Xiong*, Rupp Carriveau*, David S-K Ting*, Tonio Sant** and Zhiwen Wang*</i>  *<sup>a</sup>Dalian Maritime University, <sup>b</sup>University of Windsor, <sup>**</sup>University of Malta</p>
0945-1000	S10.2	<p><b>Low Cost Locally Manufactured Marine Pumped Hydro Energy Storage Systems</b>  <i>Gabriel Falzone, Jacob Blum, Jason Cotrell</i>  RCAM Technologies</p>
1000-1015	S10.3	<p><b>Investigating the Thermal Performance of a Subsea Liquid Piston Air Compressor Operating at Very High Pressure Ratios</b>  <i>C. Cutajar, T. Sant, and L. Aquilina</i>  University of Malta</p>
1015-1030	S10.4	<p><b>Experimental Results of Small-Scale Isochoric Compressed Air Energy Storage Prototype</b>  <i>D.L. Pottie, M.M. Oliveira Jr., E.R. Barbour</i>  CREST Loughborough University</p>
1030-1045	BK	CONTEMPLATIVE 15MIN BREAK
1045-1145	S11	<p><b>SESSION 9: OFFSHORE ENERGY GENERATION TECHNOLOGIES 2</b>  <b>SESSION CHAIR: Dr. Gabriel Falzone</b>, Chief Operating Officer, RCAM Technologies</p>
1045-1100	S11.1	<p><b>A Living Breakwater CSI-WEC For Low-Cost Coastal Power, Protection, and Restoration</b>  <i>Gabriel Falzone, Jacob Blum, Jason Cotrell</i>  RCAM Technologies</p>
1100-1115	S11.2	<p><b>Auxiliary Augmentation Approach of Dual Rotor Vertical Axis Wind Turbines with a Common Rotation Axis for Offshore Energy Generation Optimization</b>  <i>Belal H. Shanab*, Muhammad Mubashar Ashraf*, Aarthi Sekarann**, and Alexandrina Untaroiu*</i>  *<sup>a</sup>Virginia Tech, <sup>**</sup>SUNY Polytechnic Institute</p>
1115-1130	S11.3	<p><b>Navigating Self-Starting Challenges in a Cutting-Edge Offshore Hybrid Vertical Axis Wind Turbine Design</b>  <i>Aarthi Sekaran**, Belal H. Shanab*, and Alexandrina Untaroiu*</i>  <sup>**</sup>SUNY Polytechnic Insitute, <sup>*</sup>Virginia Tech</p>
1130-1145	S11.4	<p><b>Experimental Study on the Load Shedding Characteristics of a Variable Geometry Oscillating Wave Energy Converter</b>  <i>H.K. Yau, K. Thiagarajan, F.I. Callisaya, and M.A. Shabara</i>  University of Massachusetts Amherst</p>
1145-1230	BK	WHOLESOME 45MIN LUNCH
1230-1300	S12	<p><b>SESSION 12: PLENARY TALK</b>  <b>The Impacts of Clean Energy Transitions on Maritime Shipping</b>  <b>Mr. Bill Hurley</b>  Chief Executive Officer, Hurley Maritime Consulting</p>
1300-1400	S13	<p><b>SESSION 13: OFFSHORE ENERGY STORAGE TECHNOLOGIES 2</b>  <b>SESSION CHAIR: Dr. Alex White</b>, Director of Studies in Engineering, Cambridge University</p>
1300-1315	S13.1	<p><b>Proposal and thermodynamic analysis of a Trigeneration Adiabatic Compressed Air Energy Storage</b>  <i>Sunku Prasad Jenne*, Chenghao Li*, Jihong Wang*, Wei He**, Joe Spencer***, Yulong Ding***</i>  <sup>*</sup>University of Warwick, <sup>**</sup>Kings College London, <sup>***</sup>University of Birmingham</p>
1315-1330	S13.2	<p><b>Modelling The Performance of an Array of Centrifugal Pumps Operating Under a Variable Pressure in a Hydro-Pneumatic Energy Storage System</b>  <i>A. Cassar, A. Borg, and T. Sant</i>  University of Malta</p>
1330-1345	S13.3	<p><b>Low Cost Locally Manufactured Marine Pumped Hydro Energy Storage Systems</b>  <i>Gabriel Falzone, Jacob Blum, Jason Cotrell</i>  RCAM Technologies</p>
1345-1400	S13.4	<p><b>Revolutionizing Data Centre Backup: Exploring Sustainable Alternatives to Diesel Generators</b>  <i>Viswambher Kambhampati, Andy van den Dobbeltstein, Joep Schild</i>  Technische Universiteit Delft</p>
1330-1345	BK	INVIGORATING 15MIN BREAK
1345-1415	S14	<p><b>SESSION 14: PLENARY TALK</b>  <b>How To Measure Energy in Units of Cheesecake</b>  <b>Dr. Seamus Garvey</b>  Professor, Director of the Rolls-Royce UTC in Gas Turbine Transmission Systems, University of Nottingham</p>
1415-1500	S15	<p><b>SESSION 15: OFFSHORE ENERGY TRANSPORT AND STORAGE</b>  <b>SESSION CHAIR: Dr. Jenne Sunku Prasad</b>, Research Fellow, University of Warwick</p>
1415-1430	S15.1	<p><b>A Combined Liquid CO2 and Thermochemical Energy Storage System</b>  <i>Alexander J. White</i>  University of Cambridge</p>
1430-1445	S15.2	<p><b>Review of Power Transmission Options For Offshore Wind Complemented With Energy Storage</b>  <i>Zahra Baniamerian, Seamus Garvey, James Rouse, Ramin Mehdipour</i>  University of Nottingham</p>
1445-1500	S15.3	<p><b>Numerical Analysis of Uplift Bearing Capacity of Composite Suction Caisson Foundation Used For Large-Scale Underwater Compressed Gas Energy Storage</b>  <i>Hu Wang*, Wei Xiong*, Rupp Carriveau**, David S-K Ting**, Tonio Sant*** and Zhiwen Wang*</i>  *<sup>a</sup>Dalian Maritime University, <sup>**</sup>University of Windsor, <sup>***</sup>University of Malta</p>
1500-1600	S16	<p><b>SESSION 8: INTERACTIVE PANEL: OVERCOMING OBSTACLES TO COASTAL/OFFSHORE PROJECTS: FINANCE, POLICY, ENVIRONMENT</b>  <b>SESSION CHAIR: Jason Cotrell</b>, Founder, CEO RCAM Technologies</p>
1630-2100	BK	<p><b>OSES2024 BANQUET EXTRAVAGANZA</b>  Thrilling Details Being Advanced. Updates Coming Here Soon!</p>

DAY TWO

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