

**The Clearwater Clean Energy Conference  
THURSDAY MORNING – June 7, 2018**

**7:30 a.m. Continental Breakfast – Island Ballroom**

**8:00 a.m. – Plenary Session – Bay Room**

- **Panel: Gasification Technology – A Path Forward to Overcome Current Challenges**

*Moderator: Massood Ramezan, KeyLogic Systems, Inc.*

- *Dave Lyons, Technology Manager, National Energy Technology Laboratory, U.S. Department of Energy;*

- *Francis Lau, Chief Technology Officer, Synthesis Energy Systems*

- *Joshua Stanislawski, Energy & Environmental Research Center, University of North Dakota*

**10:00 a.m. – Break in the Island Ballroom**

**10:30 a.m. – Three Concurrent Technical Sessions**

	<b>Session 27 Beach Room Load Following Issues &amp; Turbines</b> <i>Massood Ramezan, KeyLogic, Inc.</i>	<b>Session 28 Gulf Room Emerging Analytical Approaches</b> <i>Dr. Dave Osborne, Somerset International Australia Pty Ltd., Australia</i>	<b>Session 29 Palm Room Carbon Capture Utilization &amp; Sequestration IV</b> <i>Dr. Erik Meuleman, ION Engineering</i>
<b>Thursday, 10:30</b>	<b>84. Solid Oxide Fuel Cell-Gas Turbine Hybrid Power Systems: Load Following Capability for Microgrid Applications</b> <i>David Tucker, National Energy Technology Laboratory, U.S. Department of Energy, USA</i>	<b>44. Inline Analysis of Washability Parameters for Process Control</b> <i>C. C. Bachmann, J&amp;C Bachmann GmbH, GERMANY</i>	<b>140. Diamonds from the Sky - Ready Transformation of the Greenhouse Gas CO<sub>2</sub> to Valuable Carbon Nano Materials</b> <i>Stuart Licht, Professor of Chemistry, George Washington University, USA</i>
<b>Thursday, 10:50</b>	<b>85. Effects of Compressor Isentropic Efficiency on Hybrid Power System Performance</b> <i>David Tucker, National Energy Technology Laboratory, U.S. Department of Energy, USA</i>	<b>97. Thermogravimetric Analysis (TGA) and High Temperature Furnace (HTF) as an Alternative to the CRI Test</b> <i>Ananthan Santhanakrishnan, Department of Chemical &amp; Materials Engineering, University of Alberta, CANADA</i>	<b>88. Port Arthur CO<sub>2</sub> Capture-World's First Full-Scale CCUS via CO<sub>2</sub> Adsorption from Syngas: Operational Update</b> <i>Cory Sanderson, Air Products, USA</i>
<b>Thursday, 11:10</b>	<b>166. About Control Algorithm of Gas-Fired CHP with Economic Goal Function (Result: 2.5 Increase of Income Within 10 Years)</b> <i>Dr. Janusz Lichota, Wroclaw University of Technology,</i>	<b>109. Using Quantitative Information Obtained on Individual Particles for Coal Exploration, Fine Coal Benefication, Cal Utilisation and Environmental Applications</b>	<b>151. Regional Impacts of Carbon Capture and Sequestration-Tax Revenue and Job Creation</b> <i>Joshua Stanislawski, Environmental &amp; Energy Research Center, University of</i>

	<b>POLAND</b>	<i>Michael O'Brien Enhanced Coal Processing, Mining and Processing Technologies/Coal Mining Program, Queensland Centre for Advanced Technologies (QCAT),</i> <b>AUSTRALIA</b>	<b>North Dakota, USA</b>
<b>Thursday, 11:30</b>	<b>83. Incorporating Thermal Energy Storage into Fuel Cell Turbine Hybrid Power System</b> <i>David Tucker, National Energy Technology Laboratory, U.S. Department of Energy, USA</i>	<b>174. Coarse and Fine Coal Centrifugal Dewatering Tests Organisation (CSIRO)</b> <i>Michael O'Brien, Coal Mining Program, Queensland Centre for Advanced Technologies (QCAT), CSIRO, and David Osborne, Somerset International,</i> <b>AUSTRALIA</b>	<b>160. Integrated CO<sub>2</sub> Capture Water-Gas Shift Process for IGCC Applications</b> <i>Dr. Shen Zhao, Southern Research, USA</i>
<b>Thursday, 11:50</b>	<b>OPEN</b>	<b>OPEN</b>	<b>173. Design of High Performance Contactor Column Internals Aided by Additive Manufacturing Techniques</b> <i>E.E.B. Meuleman, ION Engineering LLC, USA</i>
<p><b>11:50 a.m. – Lunch in the Island Ballroom</b>  <i>Presentation of the Best Student Paper Award – Roundtable/Wrap-up Discussion</i>  <i>Come prepared to discuss this year's conference and let us know what you want next year.</i></p>			