

Natural Gas Utilization Workshop:

Overcoming Hurdles of Technology Implementation

November 1-3, 2016

Marriott Morgantown Waterfront Place, Morgantown, WV



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Organizing Committee

John Hu, *West Virginia University*, Workshop Co-Chair
 Rahul Iyer, *Siluria Technologies*, Workshop Co-Chair
 Brian Anderson, *West Virginia University*
 Ajay Badhwar, *The Dow Chemical Company*
 David Berry, *NETL*
 Jim Bielenberg, *ExxonMobil*
 Johannes Lercher, *PNNL*
 Darlene Schuster, *AIChE*
 Debalina Sengupta, *Texas A&M University*
 Dushyant Shekhawat, *NETL*
 Chunshan Song, *Pennsylvania State University*

Agenda

Day 1 – Tuesday, November 1, 2016

1:00p.m.	Registration opens
3:00p.m. – 5:00p.m.	Shale Gas Site Tour (meet in hotel at workshop registration desk at 2:45PM)
5:00p.m. – 6:00p.m.	Post-Site Tour Presentation (at hotel - available to all attendees)
6:00p.m. – 7:00p.m.	Reception

Day 2 – Wednesday, November 2, 2016

7:30a.m. – 8:00a.m.	Registration and Coffee
8:00a.m. – 8:15a.m.	Welcome Remarks – Joyce McConnell, WVU Provost, and Gene Cilento, Dean of Statler College
8:15a.m. – 12:15p.m.	Session 1: Solving Challenges from the Policy and Market Perspectives
8:15a.m. – 8:30a.m.	A Natural (Gas) Evolution: Law and Policy Challenges and Opportunities in the Shale Gas Era – <i>Josh Fershee, West Virginia University</i>
8:30a.m. – 8:45a.m.	Future Energy System Transformation - Balancing Innovation, Investment and Policy – <i>Monty Alger, Pennsylvania State University</i>
8:45a.m. – 9:00a.m.	Natural Gas in the United States: An Overview of Resources and Factors Affecting the Market – <i>Justin Adder, NETL</i>

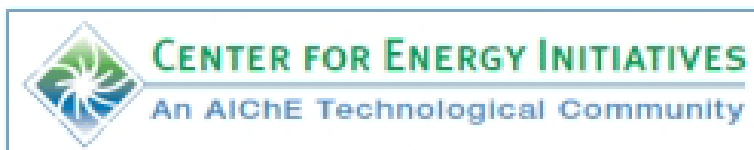
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9:00a.m. – 9:15a.m.	Technology, R&D and Policy In A Rapidly Evolving Energy Landscape – <i>Douglas Hollett, DOE</i>
9:15a.m. – 10:15a.m.	Panel Discussion
10:15a.m. – 10:45a.m.	Coffee Break
10:45a.m. – 12:00p.m.	Breakout 1
12:00p.m. – 12:15p.m.	Report Out 1
12:15p.m. – 1:15p.m.	Lunch
1:15p.m. – 5:15p.m.	Session 2: Decision Calculi at Different Nodes of the NG Value Chain
1:15p.m. – 1:30p.m.	Disrupting the Natural Gas and Petrochemical Value Chains – <i>Rahul Iyer, Siluria Technologies</i>
1:30p.m. – 1:45p.m.	Overcoming Project Finance Issues When Commercializing a New Technology – <i>Glen Rector, Amec Foster Wheeler</i>
1:45p.m. – 2:00p.m.	Challenges in Natural Gas Monetization: Qatar Experience – <i>Nimir O. Elbashir, Texas A&M University</i>
2:00p.m. – 2:15p.m.	Major Variables, Traditional and New, Affecting Decision Points Along the Natural Gas Value Chain – <i>Ken Kern, NETL</i>
2:15p.m. – 2:30p.m.	Mountaineering - Making the Traverse to the Market Summit – <i>Vann Bush, Gas Technology Institute</i>
2:30p.m. – 3:15p.m.	Panel Discussion
3:15p.m. – 3:45p.m.	Coffee Break
3:45p.m. – 5:00p.m.	Breakout 2
5:00p.m. – 5:15p.m.	Report Out 2

Day 3 – Thursday, November 3, 2016

7:30a.m. – 8:00a.m.	Registration and Coffee
8:00a.m. – 12:00p.m.	Session 3: Technology Commercialization: Developing and De-Risking
8:00a.m. – 8:15a.m.	Novel Methane Conversion Technologies - Drivers and Challenges – <i>Jim Bielenberg, ExxonMobil</i>
8:15a.m. – 8:30a.m.	Managing Risk During Technology Commercialization - Technical and Expense – <i>Jack Dever, MATRIC</i>
8:30a.m. – 8:45a.m.	Chemical Looping Technology Advancements for Natural Gas Utilization – <i>Andrew Tong, The Ohio State University</i>
8:45a.m. – 9:00a.m.	Implementation Challenges and Risk Mitigation for New Technologies – <i>Brien Stears, The Dow Chemical Company</i>
9:00a.m. – 10:00a.m.	Panel Discussion
10:00a.m. – 10:30a.m.	Coffee Break
10:30a.m. – 11:45a.m.	Breakout 3
11:45a.m. – 12:00p.m.	Report Out 3
12:00p.m.	Next Steps and Adjourn

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For more information, visit: www.aiche.org/cei