USAEE Workshop
Methane Hydrates

Date & Time:	Wednesday, July 31, 2013, 1:45 – 5:15pm
Location:	Fore Deck Room, Captain Cook Hotel
Cost:	$50.00 Conference registrants, $75.00 non-registrants
	Includes a light lunch at the beginning of the workshop and coffee break
Approx. # of participants:	40-50

Objective

The primary goal of the workshop is to inform engineers & energy economists, policy makers, legal practitioners, regulators and energy market analysts of some of the technical issues surrounding the development of gas resources in methane hydrates.

Composition of Audience

Energy economists and engineers in industry, government and academia, students completing PhD degrees in energy economics or engineering, banking professionals and other financial institutions trading energy derivatives, engineering & energy consulting firms, government regulatory or advisory agencies, or law firms.

Schedule

Gas Hydrate Fundamentals

Presenter: Brian Anderson, NETL-RUA Faculty Fellow, National Energy Technology Laboratory, and GE Plastics Professor in Chemical Engineering, Statler College of Engineering and Mineral Resources, West Virginia University

- What they are?
- Where they are found?
- Types of occurrences
- Potential Implications (Resources, GeoHazards, Climate)

Gas Hydrate Petroleum Systems

Presenter: Ray Boswell, Technology Manager, Natural Gas Technology, U.S. Department of Energy, National Energy Technology Laboratory, Pittsburgh, PA

- Prospective occurrence types
- Exploration/Characterization technologies
- Potential Volumes
- Case Study of Assessments:
    - 1. Alaska, 2. Japan, 3. Gulf of Mexico, 4. U.S. Atlantic

Gas Hydrate Production Concepts

Presenter: Brian Anderson

- Potential Methods
    - 1. Depressurization, 2. Chemical Injection, 3. Thermal
    - Focus on the cost benefit of each method.
- Field Experiments
    - 1. Canada, 2. Alaska, 3. Japan
- Numerical Simulation/Production Prediction Gulf of Mexico and ANS
- Future test design and nature of likely future production approaches
- Production challenges in obtaining and sustaining commercial production rates
- AK ANS life-cycle assessment

Coffee Break

Future

Presenter: Ray Boswell

- Status/Goals of International Programs:
    - 1. Japan, 2. India, 3. Korea, 4. China, 5. Others
- Potential timelines for production

Discussion