

*Program*

# Science and Technology Issues In Methane Hydrate R&D

**March 5 - 9, 2006**

**Sheraton Kauai Resort Hotel**

**Kauai, Hawaii**

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***Ponisseril Somasundaran, Co-Chair***

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**Sunday, March 5, 2006**

17:00 - 19:00	Registration
19:00 – 19:30	Reception
19:30 – 21:00	Dinner

**NOTES**

- **Please observe “No Smoking” at ECI technical sessions, meals and social hours.**
- **Speakers should allow time at the end of their presentation for questions and discussion.**
- **Please silence your cell phone during technical sessions.**

**Monday, March 6, 2006**

- 08:00 – 09:00 Breakfast
- 09:00 – 09:15 Welcome  
Devinder Mahajan and P. Somasundaran
- 09:15 – 10:15 **Keynote Lecture**  
**Edith Allison**, Manager, Office of Fossil Energy, United States  
Department Of Energy (U.S. DOE), Washington, DC  
*“U.S. Department of Energy Methane Hydrate Research: Progress and Potential”*
- Plenary Lectures I: Global Gas Hydrate Occurrences**  
Session Chair: **Richard Coffin**, Naval Research Lab
- 10:15 – 10:50 **Emrys Jones**, Chevron, USA  
*“Overview of GOM JIP Leg 1 Drilling”*
- 10:50 – 11:15 Coffee Break
- 11:15 – 11:50 **Ray M. Boswell**, U.S. Department of Energy, USA  
TBA
- 11:50 – 12:25 **Juan Diaz Naveas**, Universidad Catolica de Valparaiso, Chile.  
*“Preliminary seismic and bathymetric results of VG06 cruise off Central Chile”*
- 12:25 – 13:00 **Ingo Pecher**, Institute of Geological and Nuclear Sciences, Wellington, New Zealand  
*“Seafloor Erosion and Methane Release Close to the Top of the Gas Hydrate Stability Zone on the Hikurangi Margin”*
- 13:00 – 14:00 Lunch
- Plenary Lectures II: Field Data Analysis and Observations**  
Session Chair: **Ray Boswell**, NETL/U.S. DOE
- 14:00 – 14:35 **E. Dendy Sloan, Jr.**, Colorado School of Mines, Golden, USA  
*“Hydrate knowledge development”*
- 14:35 – 15:10 **A. C. Colvine**, National Resources Canada  
*“Reservoir controls on gas hydrate occurrence at the Mallik field, N.W.T., Canada: Implications for exploration and production of terrestrial and marine deposits”*
- 15:10 – 15:45 **Debbie Hutchinson**, United States Geological Survey, Woods Hole, USA  
*“Heterogeneity and dynamics in gas hydrate occurrence: lessons learned from the northern Gulf of Mexico”*

**Monday, March 6, 2006 (continued)**

- 15:45 – 16:20      **Georgy Cherkashov**, Institute for Geology and Mineral Resources of the Ocean (VNIIOkeangeologia), St.Petersburg, *Russia*  
*“Near Sea-Bottom Gas Hydrate Accumulations as Priority Object for Investigation and Possible Utilization”*
- 16:20 – 16:55      **Charlie Paul**, Monterey Bay Aquarium Research Institute, Moss Landing, *USA*  
*“Does gas escape from gas hydrate deposits?”*
- 17:00 – 18:30      **Poster Session I with coffee**
- 18:30 – 20:00      Dinner
- 20:00 – 21:00      Social Hour/Discussion

**Tuesday, March 7, 2006**

- 08:00 – 09:00 Breakfast
- Plenary Lectures III: Data Collection and Analysis Techniques**  
Session Chair: **John Ripmeester**, National Research Council, Canada
- 09:00 – 09:35 **Peter Brewer**, Monterrey Bay Aquarium Research Institute, Moss Landing, USA  
*“Laser Raman Measurement of Methane Hydrates on the Seafloor”*
- 09:35 – 10:10 **Arne Graue**, University of Bergen, Norway  
*“Experimental MRI-Visualization of Methane Production from Hydrates in Porous Rock during CO<sub>2</sub> Storage”*
- 10:10 – 10:45 **Yuri Makogon**, Texas A&M University, USA  
*“Evaluation of the Efficiency of Bottom Hole Heaters at Gas Hydrate Dissociation”*
- 10:45 – 11:15 Coffee Break
- Plenary Lectures IV: Modeling and Laboratory Studies**  
Session Chair: **Evgeny Chuvilin**, Moscow State University, Russia
- 11:15 – 11:50 **Bjørn Kvamme**, University of Bergen, Norway  
*“Kinetic Modeling of Hydrate Phase Transitions by Phase Field Approaches”*
- 11:50 – 12:20 **George Moridis**, Lawrence Berkeley National Laboratory, USA  
*“Depressurization-Induced Gas Production from Class 1 and Class 2 Hydrate Deposits”*
- 12:20 – 12:50 **Douglas Bartlett**, Scripps Institute of Oceanography-UC San Diego, USA  
*“Laboratory Exploration of Microbial Growth on Methane Hydrate”*
- 12:50 – 13:50 Lunch
- 13:50 – 14:25 **Peter Englezos**, University of British Columbia, Vancouver, Canada  
*“Morphology of Natural Gas Hydrate Crystals”*
- 14:25 – 14:50 **C. Aaron Lai**, Los Alamos National Laboratory, USA  
*“Effect of Biogeochemistry and Clathrate Hydrates on Ocean Warming”*
- 14:50 – 15:25 **Miriam Kastner**, Scripps Institute of Oceanography-UC San Diego, USA  
*“Gas Hydrates: Outstanding Questions”*
- 15:25 – 17:00 Free Time
- 17:00 – 19:00 **Poster Session II with coffee**
- 19:00 – 20:30 Dinner
- 20:30 – 21:30 **Special Session: International Collaborations**  
Chairs:  
**Edith Allison**, U.S. DOE/HQ

**Robert LaBelle**, Mineral Management Services, U.S. Department of Interior

21:30 – 22:30 Social Hour/Discussion

**Wednesday, March 8, 2006**

08:00 – 09:00 Breakfast

09:30 – 12:30 **Breakout Sessions 1 - 4**

Session I: Global Hydrate Occurrences and *in situ* Measurements

Chairs:

Arthur Johnson, Hydrate International  
Kimberly Juenger, ConocoPhillips

Session II: Laboratory Studies and Techniques

Chairs:

William Winters, USGS  
Charles Taylor, NETL/U.S. DOE

Session III: Environmental Aspects

Chairs:

Tsutomu Uchida, Hokkaido University  
Kelly Rose, NETL/U.S. DOE

Session IV: Modeling and Methane Production

Chairs:

Georgy Cherkashov  
George Moridis, LBL

10:30 – 11:00 Coffee Break

12:30 – 13:30 Lunch

13:30 – 16:00 Free time

16:00 – 19:00 **Breakout Sessions (continued)**

20:00 - **Conference Banquet**

**Thursday, March 9, 2006**

08:00 – 09:00	Breakfast
09:00 – 12:30	<u>Chairs:</u> D. Mahajan and P. Somasundaran <b>Breakout Session Presentations (Sessions 1-4)</b>
10:30 – 11:00	Coffee Break
12:30 – 12:45	Concluding Remarks and Adjournment
13:00	Lunch