

FY13 Carbon Storage Peer Review



**Pittsburgh Airport Marriott
Pittsburgh, PA
October 22-26, 2012**

AGENDA

Monday, October 22, 2012 – Coraopolis/Findlay/Moon Rooms

- 7:00 – 8:00 a.m. **Registration – Moon Foyer**
- 8:00 – 9:30 a.m. **Peer Review Panel Kick Off Meeting**
Open to National Energy Technology Laboratory (NETL) and American Society of Mechanical Engineers (ASME) staff only
- Review of ASME Process – Michael Tinkleman, ASME
 - Role of Panel Chair – Ravi Prasad and James C. Sorensen, ASME
 - Role of NETL – José Figueroa, NETL
 - Meeting logistics/completion of forms – Justin Strock/Nicole Ryan/Dave Wildman, LTI
- 9:30 – 10:15 a.m. **Overview Open to NETL and ASME staff only**
- Carbon Storage Technology Manager – John Litynski, NETL
- 10:15 – 10:30 a.m. **BREAK**
- 10:30 – 11:15 a.m. **01 - Project # FE0001163 – In Situ MVA of CO₂ Sequestration Using Smart Field Technology – Shahab D. Mohaghegh, West Virginia University Research Corporation**
- 11:15 – 11:45 a.m. Q&A
- 11:45 – 12:35 p.m. Discussion
- 12:35 – 12:45 p.m. Evaluation entry
- 12:45 – 1:45 p.m. **Lunch (on your own)**
- 1:45 – 2:30 p.m. **02 - Project # FE0004522 – Development and Test of a 1,000 Level 3C Fiber Optic Borehole Seismic Receiver Array Applied to Carbon Sequestration – Björn Paulsson, Paulsson, Inc.**
- 2:30 – 3:00 p.m. Q&A
- 3:00 – 3:50 p.m. Discussion
- 3:50 – 4:00 p.m. Evaluation entry
- 4:00 – 4:15 p.m. **BREAK**

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- 4:15 – 5:00 p.m. **03 - Project # FE0004542** – Proof of Feasibility of Using Well Bore Deformation as a Diagnostic Tool to Improve CO₂ Sequestration –
Larry Murdoch, Clemson University
- 5:00 – 5:30 p.m. Q&A
- 5:30 – 6:20 p.m. Discussion
- 6:20 – 6:30 p.m. Evaluation entry

Tuesday, October 23, 2012 – Coraopolis/Findlay/Moon Rooms

- 7:00 – 8:00 a.m. **Registration – Moon Foyer**
- 8:00 – 8:45 a.m. **04 - Project # FE0001922** – Recovery Act: Characterization of Pliocene and Miocene Formations in the Wilmington Graben, Offshore Los Angeles, for Large Scale Geologic Storage of CO₂ –
Michael Bruno, Terralog Technologies
- 8:45 – 9:15 a.m. Q&A
- 9:15 – 9:55 a.m. Discussion
- 9:55 – 10:05 a.m. Evaluation entry
- 10:05 – 10:20 a.m. **BREAK**
- 10:20 – 11:05 a.m. **05 - Project # FE0002068** – Recovery Act: An Evaluation of the Carbon Sequestration Potential of the Cambro-Ordovician Strata of the Illinois and Michigan Basins –
Hannes E. Leetaru, University of Illinois
- 11:05 – 11:35 a.m. Q&A
- 11:35 – 12:15 p.m. Discussion
- 12:15 – 12:25 p.m. Evaluation entry
- 12:25 – 1:25 p.m. **Lunch (on your own)**
- 1:25 – 2:10 p.m. **06 - Project # FE0001159** – Advanced Technologies for Monitoring CO₂ Saturation and Pore Pressure in Geologic Formations: Linking the Chemical and Physical Effects to Elastic and Transport Properties –
Gary Mavko, Stanford University
- 2:10 – 2:40 p.m. Q&A
- 2:40 – 3:20 p.m. Discussion
- 3:20 – 3:30 p.m. Evaluation entry
- 3:30 – 3:45 p.m. **BREAK**
- 3:45 – 4:30 p.m. **07 - Project # FE0001580** – Combining Space Geodesy, Seismology, and Geochemistry for Monitoring, Verification and Accounting of CO₂ in Sequestration Sites –
Timothy Hugh Dixon, University of Miami
- 4:30 – 5:00 p.m. Q&A
- 5:00 – 5:40 p.m. Discussion
- 5:40 – 5:50 p.m. Evaluation entry

Wednesday, October 24, 2012 – Coraopolis/Findlay/Moon Rooms

- 7:00 – 8:00 a.m. **Registration – Moon Foyer**
- 8:00 – 8:45 a.m. **08 - Project # FE0004962** – Inexpensive Monitoring and Uncertainty Assessment of CO₂ Plume Migration –
Steven Bryant and Sanjay Srinivasan, University of Texas at Austin
- 8:45 – 9:15 a.m. Q&A
- 9:15 – 9:55 a.m. Discussion
- 9:55 – 10:05 a.m. Evaluation entry
- 10:05 – 10:20 a.m. **BREAK**
- 10:20 – 11:05 a.m. **09 - Project # FE0004832** – Maximization of Permanent Trapping of CO₂ in the Highest-Porosity Formations of the Rock Springs Uplift –
Felipe Pereira, Fred Furtado, Victor Ginting, and Marcos Alcoforado, University of Wyoming
- 11:05 – 11:35 a.m. Q&A
- 11:35 – 12:15 p.m. Discussion
- 12:15 – 12:25 p.m. Evaluation entry
- 12:25 – 1:25 p.m. **Lunch (on your own)**
- 1:25 – 2:10 p.m. **10 - Project # FE0004956** – Influence of Local Capillary Trapping on Containment System Effectiveness –
Steven Bryant, University of Texas at Austin
- 2:10 – 2:40 p.m. Q&A
- 2:40 – 3:20 p.m. Discussion
- 3:20 – 3:30 p.m. Evaluation entry
- 3:30 – 3:45 p.m. **BREAK**
- 3:45 – 4:30 p.m. **11 - Project # FE0004566** – Prototype and Testing a New Volumetric Curvature Tool for Modeling Reservoir Compartments and Leakage Pathways in the Arbuckle Saline Aquifer: Reducing Uncertainty in CO₂ Storage and Permanence –
Jason Rush, University of Kansas Center for Research
- 4:30 – 5:00 p.m. Q&A
- 5:00 – 5:40 p.m. Discussion
- 5:40 – 5:50 p.m. Evaluation entry

Thursday, October 25, 2012 – Coraopolis/Findlay/Moon Rooms

- 7:00 – 8:00 a.m. **Registration – Moon Foyer**
- 8:00 – 8:45 a.m. **12 - Project # FE0004630** – Validation of Models Simulating Capillary and Dissolution Trapping During Injection and Post-Injection of CO₂ in Heterogeneous Geological Formations Using Data from Intermediate Scale Test Systems –
Tissa Illangasekare, Colorado School of Mines
- 8:45 – 9:15 a.m. Q&A
- 9:15 – 9:55 a.m. Discussion
- 9:55 – 10:05 a.m. Evaluation entry

Thursday, October 25, 2012 – Coraopolis/Findlay/Moon Rooms

- 10:05 – 10:20 a.m. **BREAK**
- 10:20 – 11:05 a.m. **13 - Project # ORD-2012.02.00 Task 5.1** – Verifying Storage Performance - Natural Geochemical Signals to Monitor Leakage to Groundwater –
Karl Schroeder, National Energy Technology Laboratory (NETL)
- 11:05 – 11:35 a.m. Q&A
- 11:35 – 12:15 p.m. Discussion
- 12:15 – 12:25 p.m. Evaluation entry
- 12:25 – 1:25 p.m. **Lunch (on your own)**
- 1:25 – 2:10 p.m. **14 - Project # FE0004478** – Advanced CO₂ Leakage Mitigation Using Engineered Biomineralization Sealing Technologies –
Lee Spangler and Robin Gerlach, Montana State University
- 2:10 – 2:40 p.m. Q&A
- 2:40 – 3:20 p.m. Discussion
- 3:20 – 3:30 p.m. Evaluation entry
- 3:30 – 3:45 p.m. **BREAK**
- 3:45 – 4:30 p.m. **15 - Project # FE0001040** – Quantification of Wellbore Leakage Risk Using Non-Destructive Borehole Logging Techniques –
Andrew Duguid, Schlumberger Carbon Services
- 4:30 – 5:00 p.m. Q&A
- 5:00 – 5:40 p.m. Discussion
- 5:40 – 5:50 p.m. Evaluation entry

Friday, October 26, 2012 – Coraopolis/Findlay/Moon Rooms

- 7:00 – 8:00 a.m. **Registration – Moon Foyer**
- 8:00 – 8:45 a.m. **16 - Project # FWP-58159 Task 2** – Advanced Co-sequestration Studies –
Pete McGrail, Pacific Northwest National Laboratory (PNNL)
- 8:45 – 9:15 a.m. Q&A
- 9:15 – 9:55 a.m. Discussion
- 9:55 – 10:05 a.m. Evaluation entry
- 10:05 – 10:20 a.m. **BREAK**
- 10:20 – 12:20 p.m. **Meeting Wrap-up Session**

