



**RPSEA UNCONVENTIONAL GAS CONFERENCE 2012:
Geology, the Environment, Hydraulic Fracturing**

**April 17-18, 2012
Hilton Garden Inn Pittsburgh/Southpointe
Canonsburg, PA**

Day One Agenda – Tuesday, April 17

- 7 a.m. Continental Breakfast
- 8:00 a.m. Welcome - Bob Siegfried, President, RPSEA
- 8:05 a.m. **Opening Session Speaker - David Spigelmyer, Vice President, Government Affairs, Chesapeake Energy Corporation & Chair, Marcellus Shale Coalition**
- 8:30 a.m. Meeting Overview & Agenda - Kent Perry, Vice President, Onshore Programs, RPSEA

Environmental Topics, Land Footprint, Produced Water

- 9 a.m. Produced Water Pretreatment for Water Recovery and Salt Production - Jim Silva, GE Oil & Gas
- 9:30 a.m. Appalachian Shale and Barnett Area Water Management and Reuse Technologies - Tom Hayes, Gas Technology Institute
- 10 a.m. **Break**

- 10:30 a.m. Environmentally Friendly Drilling Program Results - Rich Haut, Houston Area Research Center
- 11 a.m. Novel Gas Isotope Interpretation Tools to Optimize Gas Shale Production - Yongchun Tang, PEER Institute

Shale Gas Resources

- 11:30 a.m. Multiazimuth Seismic Diffraction Imaging for Fracture Characterization in Low-Permeability Gas Formations - Sergey Fomel and Peter Eichbuhl, The University of Texas at Austin, Bureau of Economic Geology
- Noon **Lunch**
- 1 p.m. **Keynote Speaker – Joseph H. Frantz, Jr., Vice President Engineering, Southern Marcellus Shale Division, Range Resources – Appalachia, LLC**
- 1:30 p.m. Hydraulic Fracturing and Induced Seismic; Current State of the Art – Fred Aminzadeh, University of Southern California
- 2 p.m. EPA Act Unconventional Gas Complementary Program Overview – J. Alexandra Hakala, Geosciences Division, Office of Research and Development, NETL
- 2:30 p.m. Marcellus Shale Geophysical Characteristics - Bob Hardage, The University of Texas at Austin, Bureau of Economic Geology
- 3 p.m. **Break**
- 3:15 p.m. Marcellus Shale Geologic Considerations and Gas Resource Estimates - Terry Engelder, The Pennsylvania State University

Marcellus Shale Hydraulic Fracturing Experiment – Gas Technology Institute and Range Resources

- 3:45 p.m. Marcellus Shale Hydraulic Fracturing Experiment Overview - Iraj Salehi, Gas Technology Institute
- 4 p.m. Marcellus Geology – Natural Fracture Considerations; Range Resources Test Site - Julia Gale, The University of Texas at Austin, Bureau of Economic Geology
- 4:30 p.m. Marcellus Hydraulic Fracturing Research Results - Jordan Ciezobka, Gas Technology Institute
- 5 p.m. Downhole and Surface Microseismic Results, Marcellus Shale – Jaime Rector, University of California, Berkeley
- 5:30 p.m. Adjourn for the Day

6-8 p.m. **Reception at the Hotel**

Day Two Agenda – Wednesday, April 18

7 a.m. Continental Breakfast

8 a.m. Agenda Overview - Kent Perry, Vice President Onshore Programs, RPSEA

Hydraulic Fracturing

8:15 a.m. Re-Fracturing of Tight Sand and Gas Shale Wells - Mukul Sharma, The University of Texas at Austin

8:45 a.m. Fracturing with Light Weight Proppants - Kishore Mohanty, The University of Texas at Austin

9:15 a.m. Sustaining Fracture Area and Conductivity of Gas Shale Reservoirs for Enhancing Long-Term Production and Recovery - Hugo Morales, Terra Tek & Ahmad Ghassemi, Texas A&M University

9:45 a.m. Characterizing Stimulation Domains for Improved Well Completions in Gas Shales - Ian Palmer, Higgs Palmer

10:15 a.m. **Break**

10:30 a.m. Gas Production Forecasting From Tight Gas Reservoirs: Integrating Natural Fracture Networks and Hydraulic Fractures - Milind Deo, The University of Utah

11 a.m. Coupled Flow-Geo-Mechanical-Geophysical-Geochemical (F3G) Analysis of Tight Gas Production - Lawrence Berkeley National Laboratory

11:30 a.m. Prediction of Fault Reactivation in Hydraulic Fracturing of Horizontal Wells in Shale Gas Reservoirs - Yueming Cheng, West Virginia University

Noon **Lunch & Speaker – Chris Smith, Deputy Assistant Secretary Oil and Gas, U.S. Department of Energy**

1 p.m. Hydraulic Fracturing - Tight Gas Reservoirs - Dan Hill & Ding Zhu, Texas A&M University

Flow Through Low k Formations; Physics and Modeling

1:30 p.m. Using Single-Molecule Imaging System Combined with Nano-Fluidic Chips to Understand Fluid Flow in Tight and Shale Gas - Baojun Bai, Missouri University of Science and Technology

- 2 p.m. Integrated Experimental and Modeling Approaches to Studying the Fracture-Matrix Interaction in Gas Recovery from Gas Shale - Qinhong (Max) Hu, The University of Texas at Arlington
- 2:30 p.m. **Break**
- 2:45 p.m. Simulation of Shale Gas Reservoirs Incorporating Appropriate Pore Geometry and the Correct Physics of Capillarity and Fluid Transport - Deepak Devegowda, The University of Oklahoma
- 3:15 p.m. High Resolution Imaging for Gas Shales - Dmitry Silin, Lawrence Berkeley National Laboratory
- 3:45 p.m. Overflow Items as Needed
- 4:30 p.m. Summary & Adjourn