**USAEE Workshop**

**Unconventional Gas and Oil**

**Date & Time:** Wednesday, November 7, 2012, 1:30 – 4:30pm

**Location:** Sheraton Austin Hotel, Austin, Texas

**Cost:**
- $75.00 Conference registrants, $100.00 non-registrants
- NOTE: cost includes a light lunch from 12:15 – 1:15 and PM coffee break

**Workshop Registration:** [https://www.usaee.org/usaee2012/onlineregistration.aspx](https://www.usaee.org/usaee2012/onlineregistration.aspx)

**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 unconventional oil and gas resources. Since we intend to emphasize discussion and feedback, we anticipate that the presenters may be geological engineers who would value understanding the types of technical questions that energy economists, policy makers and energy market analysts most want answered. For a composition of the Workshop audience [click here](https://www.usaee.org/usaee2012/onlineregistration.aspx).

**Schedule**

1:15  
Workshop Opening Remarks  
Scott Tinker, Director, Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin (UT-BEG)

1:30-2:10 Session 1  
Unconventional hydrocarbon production  
Eric Potter, Associate Director, UT-BEG & Tad Patzek, Department of Petroleum and Geosystems Engineering, The University of Texas at Austin

Shale gas and oil properties and technologies: physical characteristics that define shales, and that influence decline rates and relative production of gas versus liquids, likely tail behavior for unconventional wells and technologies to improve recovery, specialized management techniques in shale fields.

2:15-2:55 Session 2  
Environmental and regulatory issues  
Robert Kleinberg, Schlumberger-Doll Research

Drilling and stimulation fluids, water availability, disclosure of chemical additives, recycling and/or disposal of flowback and produced waters, aquifer protection by improved wellbore integrity, vented and fugitive methane, radioactivity and earthquake hazards, US vs. international regulatory approaches.

2:55-3:10 Coffee break

3:10-3:50 Session 3  
Economic aspects of unconventional production  
Kenneth Medlock III, Baker Institute, Rice University and Svetlana Ikonnikova & Gürcan Gülen, UT-BEG

Differences in economic analysis of shale prospects versus other conventional and unconventional plays, costs/returns of liquids versus gas production, estimating EUR as a function of physical properties, costs and relative fuel prices, available economic analysis tools and models. Impact of potential environmental regulations and changes in oil and gas taxation (eg, intangible cost deductions).

3:55-4:35 Session 4  
Global potential for unconventional gas  
Surya Rajan, Director for Upstream Research and Global Gas, IHS

Now that North America has broken the code, can the knowledge and technology be transferred globally to reproduce an unconventional gas revolution in other parts of the world? Shale and coal-bed methane resources across the globe hold great promise, but also face daunting challenges that must be overcome in order to translate this potential into reality.