

# INFORMATIONAL BRIEFING ON SUBSURFACE TECHNOLOGY AND ENGINEERING CHALLENGES AND R&D OPPORTUNITIES:

## **New Subsurface Signals**

**Thursday December 18, 2014  
8:30AM – 12:00 PM**

**VENUE:**

Executive Conference Room  
United States Energy Association  
1300 Pennsylvania Ave. NW  
Suite 550  
Washington, DC 20004

**ORGANIZED BY:**

United States Energy Association

**SUPPORTED BY:**

U.S. Department of Energy

## **BRIEFING ON SUBSURFACE TECHNOLOGY ENGINEERING CHALLENGES AND R&D OPPORTUNITIES: NEW SUBSURFACE SIGNALS**

**8:30 AM Introduction and Overview**

Barry Worthington, Executive Director

United States Energy Association

**8:35 AM U.S. Department of Energy Subsurface Technology and Engineering (SubTER) Crosscut Technical Team – Status and Activities, Workshop Goals**

TBD

**8:45 AM Can Ambient Seismic Waves Provide Information on Subsurface Fluid Reservoirs?**

Robert M. Habiger, Geophysical Consultant, RMHabiger Consultants LLC

**9:25 AM High Resolution Imaging of the Subsurface using Fiber Optic Seismic Vector Sensor Technology**

Björn N.P. Paulsson, Ph.D., CEO & President, Paulsson Inc. (PI)

**10:05 AM Monitoring Systems for Deep Geological Repositories and Unconventional Gas Development: Similarities and Differences**

Richard Jackson, Principal, Geofirma Engineering Ltd.

**10:45 AM Subsurface Monitoring of Carbon Sequestration - Recent Advances and Research Frontiers**

Dr. Barry Freifeld, Mechanical Engineer, Lawrence Berkeley National Laboratory

**11:25 AM Wrap-up discussion**

**12:00 PM Conclusion**