

**2014 Martz Summer Conference Poster Session**  
**June 5, 2014**

**Addressing Gas Flaring: Utilizing Novel Technologies to Monetize Gas at the Wellhead**  
Houston Advanced Research Center

**Assessment of the Environmental, Performance and Economic Impact of a High-performance, Water-based Drilling Fluids System in the Marcellus and Utica Shale Play**  
The Ohio State University and West Virginia University Partnership

**Biological Treatment of Flowback and Produced Waters**  
Daniel E. Freedman and Tzahi Y. Cath, Colorado School of Mines, Department of Civil & Environmental Engineering

**Community Perceptions of Low-temperature Geothermal Energy in an Environmentally Sensitive area**  
Urs P. Kreuter and Marian Higgins, Department of Ecosystem Science and Management, Texas A&M University and David Burnett, Global Petroleum Research Institute, Texas A&M University

**Dopefree Pipe**  
Houston Advanced Research Center

**East Regional EFD Center: Technology Integration Project**  
Doug Patchen, Department of Geology and Geography, West Virginia University

**ECH20- Energy Conserving Water**  
Mark Boling, Southwestern Energy

**EFD Scorecard: What gets measured gets done. What gets identified gets dealt with**  
Houston Advanced Research Center

**Coastal Impacts Technology Program -- Emissions Differences between Diesel and Natural Gas Powered Drilling Rigs**  
Susan Stuver, Texas A&M Institute of Renewable Natural Resources

**Environment 24/7, Building a Culture of Environmental Awareness**  
Houston Advanced Research Center

**Environmentally Friendly Drilling, West Regional Center**  
Susan Stuver, Texas A&M Institute of Renewable Natural Resources

**Fostering Continuous Improvement through Collaboration**  
Susan LeGros, Center for Sustainable Shale Development

## **FracFocus 2.0 Training**

Houston Advanced Research Center

## **Groundwater Quality in Relation to Unconventional Oil and Gas Development: Insights from a Colorado Oil and Gas Conservation Commission Database**

Stable Isotope Lab, Institute of Arctic and Alpine Research (INSTAAR) and Department of Civil, Environmental, and Architectural Engineering (CEAE), University of Colorado, Boulder  
Owen Sherwood (INSTAAR), Jessica Dehart (CEAE), Greg Lackey (CEAE), Andrea Sack (INSTAAR), Kenneth Eggering (INSTAAR), Bruce Vaughn (INSTAAR), and Joe Ryan (CEAE)

## **Hydraulic Fracturing: The Battle of Two Narratives**

Programming and Communications, University Libraries, Boulder

## **Integrated Microseismic and 3D Seismic Interpretation**

Thomas H. Wilson and Ariel K. Hart, Department of Geology and Geography, West Virginia University, Pete Sullivan, Energy Corporation of America, and Doug Patchen, National Research Center for Coal and Energy

## **Jurisdictional Questions Associated with Groundwater in Oil & Gas Development on Indian Lands**

Daniel Cordalis, Institute of Arctic and Alpine Research, University of Colorado, Boulder

## **Methane and Hydrogen Sulfide Measurements in Colorado**

Joanna Gordon, Kelsi Middleton, John Ortega, Ricardo Piedrahita, Jana B. Milford, and Michael P. Hannigan, University of Colorado, Boulder

## **Powered by Natural Gas: Natural Gas Power for Shale Development**

Carolyn J. LaFleur and Thomas E. Williams, Environmentally Friendly Drilling Systems Program; and John O. Allen and James Stewart, Keane Group

## **North Fork Valley Air Monitoring Project**

Ashley Collier, Michael Hannigan, Ricardo Piedrahita, and Nicholas Masson, University of Colorado, Boulder; John Ortega, National Center for Atmospheric Research; Joanna Gordon and Michael Russel, University of Colorado, Boulder; and Brian Amstutz, The Western Slope Conservation Center, Paonia CO.

## **Numerical Model of Hydraulic Fracturing Fluid Transport in the Subsurface with Pressure Transient, Density Effects, and Imbibition**

Daniel Birdsell, Gregory Lackey, Harihar Rajaram, Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder

## **Optimizing Flow-back Water Re-use with Microsoft Excel**

L Peter Galusky, Jr., Texerra LLC

## **Osage County, Oklahoma- the Effectiveness of Oil and Gas Regulatory Oversight on Oil and Gas Operations**

Tom Williams, The Environmentally Friendly Drilling Program

**The Hydraulic Fracturing Process: Real Concern or Misdirected Focus Concerning Threats to Drinking Water Supplies**

Peter E. Penoyer, Natural Resource Stewardship and Science Directorate, National Park Service

**Thermal-Swing Adsorption to Capture Toxic Air Emissions from Point Sources**

Oluwatosin A Oyelakin and Dr. David Ramirez, Department of Environmental Engineering, Texas A&M University

**Transport of Four Frequently Used Hydraulic Fracturing Fluid Organic Compounds through Aquifer Sediment in Laboratory Columns**

Jessica Dehart, Department of Civil, Environmental and Architectural Engineering, University of Colorado, Boulder, Stephen Osborn-Department of Geological Sciences, California State Polytechnic University, Pomona, and Joseph Ryan, Department of Civil, Environmental and Architectural Engineering, University of Colorado, Boulder

**Treating Fracturing Flowback by Biological and Advanced Oxidation Processes**

Yaal Lester, Tesfayohanes Yacob, Kurban Sitterley, Ian Morrissey, and Karl G. Linden, University of Colorado, Boulder and Clara Duca, University of British Columbia

**Water Quality Regulations for Shale Oil and Gas: A Comparative Legal Database (Computer Demonstration)**

Matt Samelson, Getches-Wilkinson Center for Natural Resources, Energy and the Environment