

**Wednesday, October 14, 2020**

Moderator: Gary Covatch, National Energy Technology Laboratory

**1:00 PM Fully Distributed Acoustic and Magnetic Field Monitoring Via a Single Fiber Line\ for Optimized Production of Unconventional Resource Plays**  
Gary Pickrell, Virginia Tech University

**1:20 PM Large-Volume Stimulation of Rock for Greatly Enhanced Fluids Recovery Using Targeted Seismic-Assisted Hydraulic Fracturing**  
Raman Singh, Oklahoma State University

**1:40 PM Demonstration of Proof of Concept of a Multi-Physics Approach for Real-Time Remote Monitoring of Dynamic Changes in Pressure and Salinity in Hydraulically Fractured Networks**  
Mohsen Ahmadian, University of Texas at Austin

**2:00 PM Dynamic Binary Complexes (DBC) as Super-Adjustable Viscosity Modifiers for Hydraulic Fracturing Fluids**  
Mustafa Akbulut, Texas A&M University

**2:20 PM BREAK**

Moderator: William Fincham, National Energy Technology Laboratory

**2:40 PM Using Natural Gas Liquids to Recover Unconventional Oil and Gas Resources**  
Mark Moody, Battelle

**3:00 PM All-Digital Sensor System for Distributed Downhole Pressure Monitoring in Unconventional Fields**  
Hai Xiao, Clemson University

**3:20 PM Development and Field-Testing Novel Natural Gas Surface Process Equipment for Replacement of Water as Primary Hydraulic Fracturing Fluid**  
Griffin Beck, Southwest Research Institute

**3:40 PM Development of an Optical Based Single Well Seismic System (OSWS) for Improved Characterization and Monitoring of Fractures in UOG Systems**  
Bjorn Paulsson, Paulsson



**HYDRAULIC FRACTURING TECHNOLOGIES  
PROJECT REVIEW MEETING  
Virtual Agenda  
October 14, 2020**

- 4:00 PM      BREAK**
  
- 4:20 PM      Passive Acoustic Metamaterial Proppants for Advanced Hydraulic Fracture Diagnostics**  
Jacob Pollock, Oceanit
  
- 4:40 PM      Acoustic Smart Cement for Well Integrity Diagnostics**  
Jacob Pollock, Oceanit
  
- 5:00 PM      ADJOURN**

