

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**
Daniel Homa and 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 Sinh and Pankaj Sarin, Oklahoma State University, Rami Younis, The University of Tulsa
- 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**

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| 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 |

