



MCERI Annual Meeting

La Torretta Lake Resort, Montgomery, Texas

November 3-4, 2016

Agenda

DAY 1 – Thursday, November 3, 2016

- 7:30 AM Breakfast
- 8:00 AM Opening Remarks
Akhil Datta-Gupta and Michael J. King, Texas A&M University
- 8:30 AM Rapid Simulation of Unconventional Reservoirs with Multiphase Flow and Compositional Effects Using the Fast Marching Method
Atsushi Iino (25 min.)
- 8:55 AM A Novel Approach to Production Transient Analysis and Flow Diagnostics in Unconventional Reservoirs
Xu Xue (25 min.)
- 9:20 AM Rapid Refracturing Candidate Selection in Shale Reservoirs Using Drainage Volume and Instantaneous Recovery Ratio
Changdong Yang (25 min.)
- 9:45 AM Asymptotic Solutions to the Diffusivity Equation: Rate and Boundary Effects
Zhenzhen Wang (20 min.)
- 10:05 AM Break (25 min.)
- 10:30 AM Multiwell Performance Prediction and Well Spacing Optimization Using the Fast Matching Method
Jixiang Huang (20 min.)
- 10:50 AM Time Lapse Seismic Data Integration Using Onset Times
Gil Hetz (20 min.)
- 11:10 AM A Hierarchical Multiscale History Matching Workflow Applied to a HPHT Gas Reservoir
Hongquan Chen (20 min.)
- 11:30 AM Integration of Pressure Transient Data into 3D Reservoir Models using the Fast Marching Method
Chen Li (20 min.)
- 11:50 PM Lunch (50 min.)
- 12:40 PM Demonstration of the Production Data Analysis Tool
Xu Xue (20 min.)
- 1:00 PM Poster Session (30 min.)
- 1:30 PM **Industry Presentation**
To be announced (30 min.)

- 2:00 PM Streamline Modeling of Carbon Dioxide Sequestration in Saline Aquifers
Feyisayo Olalotiti-Lawal (20 min)
- 2:20 PM Machine Learning Based Insights on Well Performance in Eagle Ford Wells
Aditya Vyas (20 min.)
- 2:40 PM Probabilistic Decline Curve Analysis in the Eagle Ford Shale
Isaac Zhukovsky (20 min.)
- 3:00 PM Break (20 min.)
- 3:20 PM History Matching of a Mature Texas Field for CO₂ Enhanced Oil Recovery and Storage
Tsubasa Onishi (15 min)
- 3:35 PM EOR From Wettability Alteration in Tight Oil Reservoirs With Multiple Hydraulic Fractures
Hye Young Jung (15 min.)
- 3:50 PM Multiscale Method for History Matching Channelized Reservoirs Using Level Sets
Rongqiang Chen (15 min.)
- 4:05 PM Wave Propagation Models to Capture Pressure Behavior in Heterogeneous Unconventional Reservoirs
Hanyu Li (15 min.)
- 4:20 PM Discussion and Wrap-up
Michael J. King and Akhil Datta-Gupta, Texas A&M University (40 min.)
- 5:00 PM Adjourn/Reception
- 6:00 PM Dinner

DAY 2 – Friday, November 4, 2016

- 7:30 AM Breakfast
- 8:00AM Opening Remarks
Akhil Datta-Gupta and Michael J. King, Texas A&M University
- 8:15AM DESTINY: Tracing and Inversion
Hongquan Chen
- 9:15 AM FMM Demonstration
Hye Young Jung
- 10:15 AM Break
- 10:45 AM LINK-WELLOPT: Fast Marching Commercial Petrel Plug-in
Changdong Yang
- 11:15 AM SWIFT: Upgridding and Upscaling
Krishna Nunna
- 12:00 PM Lunch and Adjourn