



MCERI Annual Meeting

The Woodlands, Texas

November 6-7, 2014

Agenda

DAY 1 – Thursday, November 6, 2014

- 7:30 AM Breakfast
- 8:00 AM Opening Remarks
Akhil Datta-Gupta and Michael J. King, Texas A&M University
- 8:20 AM A Comprehensive Reservoir Simulator for Unconventional Reservoirs Based on the Fast Marching Method and Diffusive Time of Flight
Yusuke Fujita (25 min.)
- 8:45 AM Streamline-based Transport Tomography Using Novel Tracers: A Field Application
Dongjae Kam (25 min.)
- 9:10 AM History Matching and Optimal Design of Chemically Enhanced Oil Recovery
Zheng Zhang (25 min.)
- 9:35 PM Compositional Streamline Simulation with Capillarity and Gravity Effects Using Orthogonal Projection
Shusei Tanaka (25 min.)
- 10:00 AM Break
- 10:20 AM History Matching and Uncertainty Quantification Using Probabilistic Multi-objective Optimization
Feyisayo Olalotiti-Lawal (20 min.)
- 10:40 AM A Novel Approach for Rate and Pressure Transient Analysis for Shale Gas/Oil Reservoirs
Changdong Yang (20 min.)
- 11:00 AM Model Segmentation Using Spectral Clustering and Its Application to Reservoir History Matching
Suksang Kang (20 min.)
- 11:20 AM Rapid Multistage Hydraulic Fracture Design and Optimization in Unconventional Reservoirs Using the Fast Marching Method
Aditya Vyas (20 min.)
- 11:40 AM Streamline-based History Matching of Arrival Times and Bottom Hole Pressure Data for Multicomponent Compositional Systems
Shusei Tanaka and Dongjae Kam (20 min.)
- 12:00 PM Lunch
- 1:15 PM **Industry Presentation**
To be announced (35 min.)

- 1:50 PM A Closer Look at the Fast Marching Method: Causality and Boundary Effects
Jixiang Huang (20 min.)
- 2:10 PM A Comparative Analysis of Reparameterization Methods for History Matching
Jichao Han (20 min.)
- 2:30 PM History Matching with Multiple Data Types: An Analysis of Spatial Resolution
Gil Hetz (20 min)
- 2:50 PM Streamline Tracing on Unstructured Grids
Lihua Zuo (25 min.)
- 3:15 PM Break (15 min.)
- 3:30 PM Diffusive Upscaling: New Developments
Peng Zhou (15 min.)
- 3:45 PM Carbonate Reservoir Characterization
Soumyadipta Sengupta (15 min.)
- 4:00 PM Discussion and Wrap-up
Michael J. King and Akhil Datta-Gupta, Texas A&M University (45 min.)
- 4:45 PM Adjourn/Reception
- 6:00 PM Dinner

DAY 2 – Friday, November 7, 2014

- 7:30 AM Breakfast
- 8:00 AM Opening Remarks
Akhil Datta-Gupta and Michael J. King, Texas A&M University
- 8:15 AM DESTINY: Tracing and Inversion
Dongjae Kam/ Hongquan Chen
- 9:15 AM Fast Marching Demonstration
Muhammed Al-Rukabi and Hye Young Jung
- 10:15 AM Break
- 10:30 AM SWIFT: Upgridding and Upscaling
Peng Zhou
- 11:30 AM GLOBAL: Global Updates
Aditya Vyas/ Changdong Yang
- 12:30 PM Lunch and Adjourn