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 AM  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