MCERI Annual Meeting
La Torretta Lake Resort, Montgomery, Texas
November 1-2, 2018

Agenda

DAY 1 – Thursday, November 1, 2018

7:30 AM   Breakfast

8:00 AM   Opening Remarks
Akhil Datta-Gupta and Michael J. King, Texas A&M University (30 min)

8:30 AM   Optimizing CO_2 and Field Gas Injection EOR in Unconventional Reservoirs Using the Fast Marching Method
Atsushi Iino (25 min)

8:55 AM   Diffuse Source Upscaling and Multiscale Simulation
Krishna Nunna (25 min)

9:20 AM   Streamline Tracing and Applications in Naturally Fractured Reservoirs Using Embedded Discrete Fracture Models
Hongquan Chen (25 min)

9:45 AM   Computing Diffusive Time of Flight in Locally Refined Grids Using the Fast Marching Method
Xu Xue (25 min)

10:10 AM   Break *(20 min.)*

10:30 AM   Post-Combustion CO_2 WAG Pilot in a Mature Field: Model Calibration and Optimization
Feyi Olalotiti-Lawal (20 min)

10:50 AM   Modeling of Injection and Production Phases of Hydraulically Fractured Shale Wells Using the Fast Marching Method
Jaeyoung Park (20 min)

11:10 AM   Production Data Analysis from Unconventional Reservoirs with a Novel Data-Driven Drainage Volume Approach
Zhenzhen Wang (20 min)

11:30 AM   Rapid Field-Scale Well Spacing Optimization in Shale Oil Reservoirs Using the Fast Marching Method
Tsubasa Onishi (20 min)

11:50 PM   Lunch *(60 min.)*
FMM Simulation: Technology Transfer Presentation

12:50 PM   Poster Session *(40 min.)*

1:30 PM   **Industry Presentation:** A Physics-Based Data-Driven Model for History Matching, Prediction, and Characterization of Unconventional Reservoirs
Yanbin Zhang, Chevron (30 min)

2:00 PM	Optimization of EOR with Wettability Alteration in Tight Oil Reservoirs for Various Hydraulic Fracture Geometries *Hye Young Jung (20 min)*
2:20 PM	Analytical Investigation of Spontaneous Imbibition *Lichi Deng (20 min)*
2:40 PM	Multiresolution Grid Connectivity-Based Transform for Efficient History Matching of Conventional and Unconventional Reservoirs *Hyunmin Kim (20 min)*
3:00 PM	Investigation of the End of Linear Flow and Onset of SRV Drainage in Unconventional Reservoirs *Andrew Malone (20 min)*
3:20 PM	Break *(20 min.)*
3:40 PM	Integration of Time-Lapse Seismic Data Using the Onset Time Approach: Impact of Frequency *Tian Liu (20 minutes)*
4:00 PM	Optimization of Fracture Completions Using Eagle Ford Field Data *Rongqiang Chen (15 min)*
4:15 PM	SWIFT Upgridding of the Amellago Carbonate Outcrop Model *Imroj Syed (15 min.)*
4:30 PM	Interpreting the Effective Permeability of Carbonate Reservoir Pore Network Using Diffuse Source Methodology *Sherry Liu (15 min)*
4:45 PM	Discussion and Wrap-up *Michael J. King and Akhil Datta-Gupta, Texas A&M University (30 min.)*
5:00 PM	Adjourn/Reception
6:00 PM	Dinner

DAY 2 – Friday, November 2, 2018

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 *Changqing "Peter" Yao*
9:15 AM	GRACE: Optimal Non-Parametric Transformation for Multiple Regression *Rongqiang Chen*
10:15 AM	Break
10:45 AM	SPADES: Production Data Analysis for Unconventional Reservoirs *Xu Xue*
11:15 AM	SWIFT: Upgridding and Upscaling *Imroj Syed*
12:00 PM	Lunch and Adjourn

Poster Presentations

History Matching and Optimization of ASP Flooding: *Hye Young Jung*

Parameterization of Embedded Discrete Fracture Model for Unconventional Tight Reservoirs with Hydraulic Fractures: *Hyunmin Kim and Tsubasa Onishi*

Fast Marching Simulation in Embedded Discrete Fracture Models: *Xu Xue*

Rapid Coupled Flow and Geomechanics Simulation Using the Fast Marching Method: *Kazuyuki Terada*

Novel Approach Toward Faulted Reservoirs with Streamline Simulation: *Kenta Nakajima*

Fast Marching Method-Based Simulation Accounting for Gravity: *Tsubasa Onishi*

Multi-well Simulation for Constant Rate Production Scenario Using the Fast Marching Method: *Atsushi Iino*

Mechanism of Seismicity at the Azle Site, Fort-worth Basin: Flow Visualization in Fine-scale and Basin-Scale Model: *Changqing "Peter" Yao*

Amellago Carbonate Outcrop Model Upscaling: *Ching-Hsien "Isaac" Liu and Krishna Nunna*