



# MCERI Annual Meeting

910 Richardson Building  
College Station, Texas

November 4-5, 2021

## Agenda

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### DAY 1 – Thursday, November 4, 2021

- 7:30 AM Breakfast
- 8:30 AM Opening Remarks  
*Akhil Datta-Gupta and Michael J. King, Texas A&M University (15 min)*
- 8:45 AM An Efficient Deep Learning-Based Workflow Incorporating a Reduced Physics Model for Subsurface Imaging in Unconventional Reservoirs  
*Tsubasa Onishi (25 min)*
- 9:10 AM Quantitative Assessment of Induced Seismicity from Hydrocarbon Production and Produced Water Disposal in Azle Area, North Texas  
*Jaeyoung Park (25 min)*
- 9:35 AM Model-Free Assessment of Inter-Well Connectivity in CO<sub>2</sub> WAG Projects Using Statistical Recurrent Unit Models  
*Deepthi Sen (25 min)*
- 10:00 AM Field Implementation and Demonstration of Streamline Based Polymerflood Rate Optimization: The Mangala Field, India  
*Ao Li (25 min)*
- 10:25 AM Break (20 min.)
- 10:45 AM Fast Marching Formulation and Implementation in Complex Fracture Systems  
*Hongquan Chen (25 min)*
- 11:10 AM Robust CO<sub>2</sub> Plume Imaging Using Joint Tomographic Inversion Of Distributed Pressure And Temperature Measurements  
*Changqing Yao (25 min)*
- 11:35 AM Development and Application of Fast Simulation Based on the PSS Pressure as a Spatial Coordinate  
*Kenta Nakajima (25 min)*
- 12:00 PM Lunch (75 min.)
- 1:15 PM **Industry Presentation**  
*Shusei Tanaka, Chevron (30 min)*  
Deep Reinforcement Learning for Generalizable Field Development Plan Optimization
- 1:45 PM Multi-resolution Modeling by DTOF for Rapid Simulation of Unconventional Reservoirs  
*Kazuyuki Terada (25 min)*



- 2:10 PM      Physics-Combined Data-Driven Method for Robust Reservoir Surveillance Workflow  
*Masahiro Nagao (25 min)*
- 2:35 PM      Break (20 min.)
- 2:55 PM      Well Performance and Completion Efficiency Assessment in the Delaware Basin using the Diffusive Time of Flight  
*Jaeyoung Park (25 min)*
- 3:20 PM      Multi-Stage History Matching of GOR for CCUS Applications  
*Ruxin Zhang (15 min)*
- 3:35 PM      Model-Free Assessment of Cumulative Injection and Production Allocation for Well-Pairs  
*Prithvi Chauhan (15 min)*
- 3:50 PM      Discussion and Wrap-up  
*Michael J. King and Akhil Datta-Gupta, Texas A&M University (30 min.)*
- 5:00 PM      Reception
- 6:00 PM      Dinner

**DAY 2 – Friday, November 5, 2021**

- 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  
*Masahiro Nagao*
- 10:15 AM      Break
- 10:45 AM      SPADES: Production Data Analysis for Unconventional Reservoirs  
*Venkata Chavali*
- 11:15 AM      SWIFT: Upgridding and Upscaling  
*Ching-Hsien “Issac” Liu*
- 12:00 PM      Lunch and Adjourn