

## **MCERI Annual Meeting**

## Margaritaville Lake Resort Montgomery, Texas

November 3-4, 2022

## Agenda

## DAY 1 – Thursday, November 3, 2022

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	Multiresolution Simulation of Unconventional Reservoirs Using Fast Marching Method Hongquan Chen (25 min)
9:10 AM	Robust CO2 Plume Imaging by Joint Tomographic Inversion using Distributed Pressure and Temperature Measurements <i>Changqing Yao (25 min)</i>
9:35 AM	An Efficient Deep Learning-Based Workflow for CO2 Plume Imaging Considering Model Uncertainties Using Distributed Pressure and Temperature Measurements <i>Masahiro Nagao (25 min)</i>
10:00 AM	Field Experiences with Streamline Based Polymer Flood Optimization: The Mangala Field, India Ao Li (25 min)
10:25 AM	Break (20 min.)
10:45 AM	Multiresolution Coupled Flow and Geomechanical Modeling Using Fast Marching Method <i>Kaz Terada (25 min)</i>
11:10 AM	Application of Multi-Resolution Simulation and Multi-Objective History Matching to Austin Chalk/Eagle Ford Project Jia Fu (25 min)
11:35 AM	Identification of Key Wells for Optimization Considering Geologic Uncertainty Deepthi Sen (25 min)
12:00 PM	Lunch (75 min.)
1:15 PM	Practical Field-Scale Reservoir Surveillance and Production Optimization Using Hybrid Data- Driven and Physics-Based Reservoir Models <i>Hardikkumar Zalavadia, XECTA</i>
1:45 PM	Field-scale Multi-Objective Optimization of Rate and Concentration for Polymer Flooding <i>Ruxin Zhang (20 min)</i>

2:05 PM	A Field Application of Model-Free Production Forecasting Using Statistical Recurrent Unit <i>Prithvi Chauhan (20 min)</i>
2:25 PM	Relative Permeability Upscaling Yaser Alghawi (20 min)
2:45 PM	Break (30 min.)
3:15 PM	Physics-informed Machine Learning for Reservoir Connectivity Identification and Production Forecasting Masahiro Nagao (20 min)
3:35 PM	Model Based MTFW Shale Reservoir Production Analysis Ismail Mohamed (20 min)
3:55 PM	MCERI Participation in DOE SMART Initiative Akhil Datta-Gupta (10 min)
4:05 PM	Discussion and Wrap-up Michael J. King and Akhil Datta-Gupta, Texas A&M University
5:00 PM	Reception
6:00 PM	Dinner
DAY 2 – Friday, November 4, 2022	
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