

CPGE2018

Research Showcase in Petroleum and Geosystems Engineering

August 23, 2018 | POB 2.302 and The Avaya Auditorium | The University of Texas at Austin



Time	Location	Event	Speaker
8:00 am	POB 2.302	Continental breakfast	
8:25 am	POB 2.302	Welcome	Dr. Kishore Mohanty
8:30-9:00 am	POB 2.302	Enhanced Reservoir Characterization and Modeling with Big Data Analytics	Dr. Michael Pyrcz
9:00 - 11:00 am		Session 1: Unconventional Reservoirs and Fracturing	
9:00-9:20 am	POB 2.302	Experimental Study on the Reservoir Dynamics of the Invaded Gas as Fracturing Fluids	Xiao Luo
9:20-9:40 am	POB 2.302	3D Micro-Scale Flow Simulation of Shear-Thinning Fluids in a Rough Fracture	Min Zhang
9:40-10:00 am	POB 2.302	CFD-DEM Modeling of Fracture Initiation Induced by Fluid Injection	Zhuang Sun
10:00-10:20 am	POB 2.302	In Situ Proppants for Hydraulic Fracturing	Songyang Tong
10:20-10:40 am	POB 2.302	Diffusive Fracture Networks	Mohamad Jammoul
10:40-11:00 am	POB 2.302	Simulation of Solvent Treatments of Water and Condensate Blockage in Tight Formations	Sajjad Neshat
11:00 am -1:00 pm	TBD	Poster Session & Lunch	
1:00-2:30 pm		Session 2: Enhanced Oil Recovery	
1:00-1:30 pm	POB 2.302	Prediction of Microemulsion Phase Behavior from Surfactant and Co-solvent Structures	Dr. Gary A. Pope
1:30-1:50 pm	POB 2.302	Multiscale Microfluidic Investigation of Low Salinity Effects During Oil Recovery	Yujing Du
1:50-2:10 pm	POB 2.302	Impact of Field Development Strategies on CO2 Trapping Mechanisms in a CO2-EOR Field: A Case Study in Permian Basin (SACROC unit)	Pooneh Hosseinioosheri
2:10-2:30 pm	POB 2.302	CO2 Sequestration and Geomechanics	Xueying Lu
2:30-2:40 pm	POB 2.302	Break	
2:40 - 4:00 pm		Session 3: Petrophysics	
2:40-3:00 pm	POB 2.302	Grain-scale Modeling of Seal Capacity in Heterogeneous Mudrock	Abhishek Bihani
3:00-3:20 pm	POB 2.302	Effects of Vuggy Porosity on Particle Straining in Porous Media	Hasan Khan
3:20-3:40 pm	POB 2.302	Feature Detection for Digital Images using Machine Learning Algorithms and Image Processing	Xiao Tian
3:40-4:00 pm	POB 2.302	Study of Reservoir Heterogeneity from Petrophysical Data	Jose Salazar
		Schechter Award Ceremony and Lecture	
	POB 2.302	The Global Energy Transition	Dr. Franklin Orr