



Annual Industrial Affiliates Meeting 2016

TUESDAY, NOV. 1, 2016

TUESDAY, NOV. 1, 2016	MORNING	CLASSROOM 101
7:45-8:20	REGISTRATION AND BREAKFAST	
8:20-8:45	Mary F. Wheeler	<i>Overview of CSM research and outreach activities</i>
8:45-9:15	Todd Arbogast	<i>Some new approaches to simulating two-phase flow in porous media on hexahedral meshes</i>
9:15-9:45	Mrinal Sen	<i>Simulation of seismic wave propagation in fractured media: challenges and opportunities</i>
9:45-10:15	BREAK	
10:15-10:45	Sanghyun Lee	<i>Hydraulic fracture propagation in porous media with phase field approach</i>
10:45-11:15	Young-Ju Lee	<i>Enriched Galerkin approximation methods for flow and transport</i>
11:15-11:45	Sogo Shiozawa	<i>A mass conservative proppant transport model in phase-field fracture</i>
11:45-12:45	LUNCH	TEJAS DINING ROOM, LEVEL 2
	AFTERNOON	CLASSROOM 101
1:00-1:30	Tameem Almani	<i>Efficient algorithms for flow models coupled with geomechanics for porous media applications</i>
1:30-2:00	Deandra White	<i>A modeling study of CO₂ injection at Cranfield with compositional flow and elastoplasticity</i>
2:00-2:30	Ruijie Liu	<i>Coupled continuous/discontinuous elements for fracture propagation</i>
2:30-3:00	Ivan Yotov	<i>Modeling of flow in fractured poroelastic media</i>
3:00-3:30	BREAK	
3:30-4:00	Himanshu Sharma	<i>Study of low salinity wettability alteration in carbonates</i>
4:00-4:30	Gurpreet Singh	<i>A fully implicit framework for coupled reactive flow and transport</i>
4:30-5:00	Gergina Pencheva	<i>Numerical modeling of low salinity water flooding process: challenges and advances</i>
5:00-5:30	Ashwin Venkatraman	<i>Compositional flow and reactive flow modeling: developments and applications</i>
5:30-7:00	POSTER SESSION	CONFERENCE ROOM 108
6:30-7:30	WINE & CHEESE	COURTYARD (WEATHER PERMITTING) OR INTERIOR COURTYARD
7:30-9:30	DINNER	CONFERENCE ROOM 301



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WEDNESDAY, NOV. 2, 2016

WEDNESDAY, NOV. 2, 2016	MORNING	CLASSROOM 101
8:00-8:30	BREAKFAST	
8:30-9:00	Sanjay Srinivasan	<i>Reservoir modeling using spatial cumulants and polyspectra</i>
9:00-9:30	Baehyun Min	<i>Numerical simulation of pulse testing and uncertainty quantification based on multi-objective optimization for CO₂ leakage detection in a CO₂-EOR field</i>
9:30-10:00	Jing Ping	<i>Ensemble based uncertainty quantification for fractured reservoirs</i>
10:00-10:30	BREAK	
10:30-11:00	Mohammad Reza Beygi	<i>Compositional and hysteretic relative permeability: recent insights and applications</i>
11:00-11:30	Ben Ganis	<i>Recent enhancements to multipoint flux mixed finite elements in IPARS: parallel compositional flow and the local flux method for non-matching hexahedral grids</i>
11:30-12:00	Ani Anciaux- Sedrakian	<i>Linear solver for numerical simulations running on the multi-cores processors accelerated by GP-GPUs</i>
12:00-1:00	LUNCH	TEJAS DINING ROOM, LEVEL 2
	AFTERNOON	CLASSROOM 301
1:15-1:45	Guillaume Enchery	<i>Multiscale finite element and reduced basis techniques to accelerate simulations of porous media flows</i>
1:45-2:15	Maurizio Chiaramonte	<i>Mapped finite element methods: high-order approximations of problems on domains with cracks and corners</i>
2:15-3:00	Mary F. Wheeler	<i>Wrap-up</i>