



Annual Industrial Affiliates Meeting 2015

TUESDAY, NOV. 3, 2015

TUESDAY, NOV. 3, 2015	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>Locally Conservative Approximations on Quadrilaterals</i>
9:15-9:45	Sanjay Srinivasan	<i>Pattern Statistics Inference and Modeling via the Indicator Formalism</i>
9:45-10:15	BREAK	
10:15-10:45	Baehyun Min	<i>Application of Multi-Objective Optimization to Reservoir Characterization and Production Optimization</i>
10:45-11:15	Ben Ganis	<i>Implementing Multipoint Flux Mixed Finite Elements on Non-matching Hexahedral Grids Using the Local Flux Method</i>
11:15-11:45	Joe Eaton	<i>Accelerating Linear Solvers Using Krylov + AMG on GPUs</i>
11:45-12:45	LUNCH	TEJAS DINING ROOM, LEVEL 2
	AFTERNOON	CLASSROOM 101
1:00-1:30	Young-Ju Lee	<i>A Locally Conservative Enriched Galerkin Approximation and User-Friendly Efficient Solver for Elliptic and Parabolic Problems</i>
1:30-2:00	Sanghyun Lee	<i>Phase Field Modeling for Fluid Filled Fractures in Porous Media</i>
2:00-2:30	Prashant Mital	<i>The Enriched Galerkin Method for Linear Elasticity</i>
2:30-3:00	Tameem Almani	<i>Analysis of Multirate Coupling Schemes for Coupled Flow-Geomechanics in Fractured Poroelastic Media</i>
3:00-3:30	BREAK	
3:30-4:00	Ruijie Liu & Deandra White	<i>Numerical Formulation and Application on Drucker-Prager Plasticity Model in IPARS</i>
4:00-4:30	Ivan Yotov	<i>Coupled Multipoint Flux and Multipoint Stress Mixed Finite Element Methods for Poroelasticity</i>
4:30-5:00	Omar Al-Hinai	<i>Mimetic Finite Differences and Fracture Modeling</i>
5:00-5:30	Jing Ping	<i>Ensemble-based History Matching Method for Fractured Reservoirs</i>
5:30-7:00	POSTER SESSION	CONFERENCE ROOM 108
6:30-7:30	WINE & CHEESE	COURTYARD (WEATHER PERMITTING) OR CONFERENCE ROOM 301
7:30-9:30	DINNER	CONFERENCE ROOM 301



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WEDNESDAY, NOV. 4, 2015

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8:00-8:30	BREAKFAST	
8:30-9:00	David Nicolas Espinoza	<i>Interpretation of Laboratory Experiments with Coupled Numerical Simulation</i>
9:00-9:30	Sogo Shiozawa	<i>Simulation of Proppant Transport with Gravitational Settling and Fracture Closure in a Three-Dimensional Hydraulic Fracturing Simulator</i>
9:30-10:00	Chun Huh	<i>Use of Iron Oxide and Silica Nanoparticle for Upstream Oil and Gas Applications</i>
10:00-10:30	BREAK	
10:30-11:00	Gurpreet Singh	<i>Addressing Challenges in Flow Modeling for Fractured Reservoirs</i>
11:00-11:30	Ashwin Venkatraman	<i>Modeling Geochemical Reactions Occurring during Enhanced Oil Recovery Processes</i>
11:30-12:00	Gergina Pencheva	<i>Reactive Tracers for Characterization of Reservoir Geochemistry</i>
12:00-1:00	LUNCH	TEJAS DINING ROOM, LEVEL 2
	AFTERNOON	CLASSROOM 301
1:15-1:45	Mohammad Reza Beygi	<i>Compositional Relative Permeability Modeling</i>
1:45-2:15	Mohammad Lotfollahi	<i>Foam Application in CO₂ Sequestration and Enhanced Oil Recovery</i>
2:15-3:00	Mary F. Wheeler	<i>Wrap-up</i>