

2012 SRB Affiliates Meeting
AGENDA

WEDNESDAY JUNE 20, 2012		
Time	Event / Paper	Location / Speaker
7:30 AM - 8:30 AM	Registration and Breakfast	Breezeway
8:30 - 8:50	Welcome	Gary Mavko
8:50 - 9:10	Welcome	Mark Zoback
9:10 - 9:35	Rock Physics Lab Program	Tiziana Vanorio
9:35 - 10:00	D1: Synthesis of micritic and dual-porosity carbonate analogs: Effect on pressure sensitivity and dissolution	Ammar El Husseiny
10:00 - 10:20	D2: Elastic property variations in Tuscaloosa sandstone induced by CO2 injection: A theoretical treatise	Jack Dvorkin
10:20 - 10:40	D4: Anomalous strain behavior in CO2-saturated zeolitic tuffs	Danica Dralus
10:40 AM - 11:10 AM	Break	Breezeway
11:10 - 11:30	D3: Effects of opal-CT phase transition rates on transition depth in San Joaquin Basin models	Danica Dralus
11:30 - 11:50	electrical studies	Adam Tew
11:50 - 12:10	D7: A semi-quantitative analysis linking pore microgeometry to fluid-rock chemical reactivity	Stephanie Vialle
12:10 PM - 1:20 PM	Lunch	Deck
1:20 - 1:40	E1: Sequential approach to Bayesian Linear Inverse problems in reservoir modeling using Gaussian-Mixture models	Dario Grana
1:40 - 2:00	E2: Using multidimensional scaling and kernel principal-component analysis to interpret seismic signatures of thin shaly-sand reservoirs	Piyapa Dejtrakulwong
2:00 - 2:20	B4: Numerical study of stress and contact-force localization in granular media under anisotropic compaction	Yu Xia
2:20 - 2:40	B3: Micro-scale numerical simulation of anisotropic elastic media	Fabian Krzikalla
2:40 PM - 3:00 PM	Break	Breezeway
3:00 - 3:30	Open Discussion	
3:30 - 3:50	B1 -B2: Digital-rock benchmark examples. Part I: Effect of image resolution. Part II: Effect of boundary conditions	Fabian Krzikalla
3:50 - 4:10	D6: Effective permeability for rock with diffusive pores: Implications for shale permeability	Jack Dvorkin
4:10 - 4:35	Imaging capabilities at the Stanford Synchrotron Radiation Laboratory (SSRL) and possible collaborations	Piero Pianetta
4:35 - 5:00	Evaluation of Digital Rock Physics for Shales	Amos Nur
5:30 PM	RECEPTION / APPETIZERS	Patio
6:30 PM	DINNER	Deck

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THURSDAY JUNE 21, 2012		
Time	Event / Paper	Location / Speaker
7:30 AM - 8:00 AM	Registration and Breakfast	Breezeway
8:00-8:20	Introduction	Jack Dvorkin
8:20-8:40	A-2: An explanation of observed CO2 saturation variations in terms of pore-space stiffness	Chisato Konishi
8:40 -9:00	A-4: Fluid substitution in gas/water systems: Revisiting patchy saturation	Amrita Sen
9:00 - 9:20	A1: Consideration of irreducible water saturation and saturation transition zone in forward seismic modeling	Yuki Kobayashi
9:20 - 9:40	A-5: Capillary Pressure Model: Frequency Dependence	Amrita Sen
9:40 - 10:00	D5: The effect of diffusion, adsorption, and compaction on the permeability of microporous rocks	Adam Allan
10:00 AM - 10:30 AM	Break	Breezeway
10:30 - 10:55	C1: Exact and approximate effective bulk modulus upon substitution	Nishank Saxena
11:55 - 11:20	C4: Imbedded-bound method for estimating the change in bulk modulus under either fluid or solid substitution	Gary Mavko
11:20 - 11:40	C3: Effect of multiple measurements on substitution bounds	Nishank Saxena
11:40 - 12:20	Open Discussion	
12:20 PM - 1:30 PM	Lunch	Deck
1:30 - 1:50	C6: Oil sands: Rock physics analysis from well data, Alberta, Canada	Sabrina Aliyeva
1:50 - 2:10	C7: Microseismicity associated with a heavy oil reservoir	Randi Walters
2:10 - 2:40	G10: Mechanical properties of shale gas reservoir rocks	Hiroki Sone
2:40 - 3:00	G4: Mechanisms of time-dependent deformation in gas shales	Sander Hol
2:00 PM - 3:25 PM	Break	Breezeway
3:25 - 3:45	G8: Progressive proppant embedment in Barnett Shale: Laboratory experimental results	Chandong Chang
3:45 - 4:05	F4: The stress state of the northwest Geysers geothermal field and implications for fault controlled fluid flow	Katie Boyle
4:05 - 4:30	F3: Predicting damage zones by modeling dynamic rupture propagation on faults using rate-weakening friction and off-fault plasticity	Madhur Johri
4:30	Open Discussion	

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FRIDAY JUNE 22, 2012		
Time	Event / Paper	Location / Speaker
8:00 AM - 8:20 AM	Breakfast	Breezeway
8:20 - 8:30	F1: The importance of slow slip on faults during hydraulic fracturing simulation of shale gas reservoirs	Mark Zoback
8:30 - 8:50	G5: Microearthquakes associated with long period, long duration seismic events during stimulation of a shale gas reservoir	Indrajit Das
8:50 - 9:10	G2: Frictional properties of shale reservoir rocks	Arjun Kohli
9:10 - 9:30	F5: Applications of coupled geomechanical discrete fracture modeling to hydraulic fracture stimulation	Mark McClure
9:30 - 9:50	G9: Laboratory measurements of flow in gas shales	Rob Heller
9:50 - 10:10	G1: Microstructural investigations of shale reservoir rocks	Arjun Kohli
10:10 AM - 10:30 AM	Break	Breezeway
10:30 - 10:50	F7: Geomechanical study of the Bakken Shale, North Dakota	Alec Yang
10:50 - 11:00	G7: Is there a link between observed increases in Oklahoma seismicity rates and energy development?	Rall Walsh
11:00 - 11:20	G6: Geomechanical and microseismic studies of a shale gas project in the Horn River Basin	Owen Hurd
11:20 - 11:40	F6: Hydrofracture modeling of the Barnett Shale using discrete fracture network	Ali Yaghoubi
11:40 - 12:00	F2: Production-induced fault re-activation in the paleogene of deepwater Gulf of Mexico: Modeling and simulation	Jeremy Brown
12:00 - 12:30	Open Discussion	
12:30 PM	Lunch	Deck