

2011 SRB Annual Meeting

AGENDA

WEDNESDAY June 22, 2011		
Time	Event / Paper	Location / Speaker
8:00 AM - 9:00 AM	Registration and Breakfast	Quadrus Breezeway
9:00 - 9:20	Welcome	Gary Mavko
9:20 - 9:40	Welcome	Mark Zoback
9:40 - 10:00	SRB's 4D legacy	Amos Nur
10:00 - 10:20	D2: Rock physics analysis and time-lapse rock imaging of geochemical effects due to the injection of CO2 into reservoir rocks	Tiziana Vanorio
10:20 - 10:40	D3: Carbonate rocks flooded with CO2-rich water: Role of microstructure and residual oil	Stephanie Vialle
10:40 - 11:00	D5: Computing the effects of salt precipitation in clean sandstones on effective rock properties by using digital rock physics	Fabian Krzikalla
11:00 AM - 11:20 AM	Break	Breezeway
11:20 - 11:40	What Induced Dissolution Trends Tell us About Natural Diagenetic Trends of Carbonate Rocks	Tiziana Vanorio
11:40 - 12:00	Time-Lapse NMR	Denys Grombacher
12:00 - 12:20	D4: Changes in formation factor induced by dissolution/precipitation	Stephanie Vialle
12:20 PM - 1:20 PM	Lunch	Deck
1:20 - 1:40	D7: The design and construction of a resistivity type core holder	Adam Tew
1:40 - 2:00	D6: Opal-CT to quartz phase transition kinetics from hydrous pyrolysis experiments	Danica Dralus
2:00 - 2:20	A1-A2: Fluid substitution in heterogeneous media; Fluid effect on seismic reflections between two half-spaces	Jack Dvorkin
2:20 - 2:40	A3: The influence of pore fluids on static and dynamic moduli in double porosity sandstones as interpreted by NMR data	Zakir Hossain
2:40 - 3:00	A7: Fluid substitution in gas/water systems: Revisiting patchy saturation	Amrita Sen
3:00 PM - 3:20 PM	Break	Breezeway
3:20 - 3:40	A6: Fluid substitution for laminated sand-shale sequences	Piyapa Dejtrakulwong
3:40 - 4:00	A9: P-wave velocity and CO2 saturation explained by modified patchy saturation	Chisato Konishi
4:00 - 4:20	A5: Poromechanics from volume averaging: A continuum approach linking pore-scale physics to macroscale (II)	Nishank Saxena
4:20 - 4:40	A8: Fluid substitution applied to seismic reflections	Jingye Li
4:40 - 5:00	Pressure Solution	Amos Nur
5:30 PM	RECEPTION / APPETIZERS	Patio
6:30 PM	DINNER	Deck

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THURSDAY June 23, 2011		
Time	Event / Paper	Location / Speaker
8:00 AM - 8:30 AM	Registration and Breakfast	Quadrus Breezeway
8:30		Gary Mavko
8:40 - 9:00	A10: Attenuation anisotropy in fully saturated laminated media	Jack Dvorkin
9:00 - 9:20	B1: Digital rock physics in 2D: What can we learn from thin section images?	Fabian Krzikalla
9:20 - 9:40	B2: Poro-elastic numerical simulation of velocity dispersion in partially saturated rocks	Kenichi Akama
9:40 - 10:00	B3: Lattice Boltzmann simulation of gas flow in the slip regime	Adam Allan
10:00 AM - 10:20 AM	Break	Breezeway
10:20 - 10:40	B4: Stochastic alteration of pore network in digital rocks	Dario Grana
11:40 - 11:00	B5: Estimation of macroscopic drag and additional mass parameters from numerical simulations	Nishank Saxena
11:00 - 11:15	B7: Granular dynamics and contact mechanics: Digital rock physics approach for simulating granular packs	Yu Xia
11:15 - 12:00		Open Discussion
12:00 PM - 1:20 PM	Lunch	Deck
1:20 - 1:40	E1: Single-loop inversion of facies from seismic data based on sequential simulations and probability perturbation method	Dario Grana
1:40 - 2:00	C1: Generalized Gassmann relations for fluid and solid saturations: Derivations and FEM simulations	Nishank Saxena
2:00 - 2:20	C2-C3: Viscoelastic properties of heavy oil and bitumen; Relaxation shift in rocks with heavy oil	Gary Mavko
2:20 - 2:40	G5: Nanoindentation in source rocks	Ramil Ahmadov
2:40 PM - 3:00 PM	Break	Breezeway
3:00 - 3:20	C4: Effects of fine particles on heavy oil viscosity	Gary Mavko
3:20 - 3:40	G7: Spatial distribution of kerogen in the Bakken Formation	Ramil Ahmadov
3:40 - 4:00	Granular Media	Ratnanabha Sain
4:00 - 4:30		Discussion

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FRIDAY June 24, 2011		
Time	Event / Paper	Location / Speaker
8:00 AM - 8:20 AM	Breakfast	Quadrus Breezeway
8:20 - 8:40		Mark Zoback
8:40 - 9:00	Fault re-activation and leakage study: a geomechanical study of the deepwater GOM Paleogene	Jeremy Brown
9:00 - 9:20	G4: Visco-plastic properties of shale gas reservoir rocks	Hiroki Sone
9:20 - 9:40	G1: Adsorption, swelling, and viscous creep of synthetic clay samples	Rob Heller
9:40 - 10:00	G3: Investigating the frictional properties of shale gas reservoir rocks	Arjun Kohli
10:00 - 10:20	G2: The effects of gas adsorption on swelling, visco-plastic creep, and permeability of sub-bituminous coal	Yi Yang
10:20 AM - 10:40 AM	Break	Breezeway
10:40 - 11:00	Vol 125: Geomechanical Studies of the Barnett Shale, Texas	John Vermynen
11:00 - 11:20	F1: Long period, long duration seismic events during hydraulic fracture simulation of a shale gas reservoir	Indrajit Das
11:20 - 11:40	F2: Geomechanical modeling and Fracture analysis in a tight-gas sandy conglomerate reservoir	Owen Hurd
11:40 - 12:00	F3: Observations of fault damage zones at reservoir depths	Madhur Johri
12:00 - 12:20	F4: Prediction of damage zones by modeling dynamic rupture propagation on faults using strongly rate-weakening friction and off-fault plasticity	Madhur Johri
12:20 - 12:40	Coming Attractions	Mark Zoback
	Closing Comments	
12:45 PM	Lunch	Deck