

Stanford

Natural Gas Initiative

Unconventional Workshop May 30, 2019 Agenda

Location: TRESIDDER MEMORIAL UNION
OAK ROOM
495 LAGUNITA DRIVE
STANFORD UNIVERSITY

Morning Program

8:00 – 8:30	CONTINENTAL BREAKFAST	
8:30 – 8:35	Welcoming Remarks	Naomi Boness
8:35 – 9:30	Principles of geomechanics applied to unconventional reservoir optimization	Mark Zoback
9:30 – 10:00	Principal stress orientations and relative magnitudes in unconventional oil and gas basins in North America	Jens-Erik Lund Snee
10:00 – 10:30	BREAK	
10:30 – 11:00	Modeling vertical hydraulic fracture growth	Ankush Singh
11:00 – 11:45	Improving recovery from and access to unconventional reservoirs using carbon dioxide	Tony Kavscek
11:45 – 12:15	Viscoplastic origin of vertical stress variations in unconventional reservoirs	Shaochuan Xu
12:15 – 12:35	Open Discussion	
12:35 – 1:45	LUNCH	

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Afternoon Program

1:45 – 2:30	Bayesian evidential learning for uncertainty quantification in the management of conventional gas reservoirs	Jef Caers
2:30 – 3:00	Integrating geostatistical modelling with machine learning for production forecast in shale reservoirs: Case study from the Eagle Ford	Alex Bakay
3:00 – 3:30	Recognition of sub-resolution stacking patterns in unconventional from seismic data	Riyad Muradov
3:30 – 3:50	BREAK	
3:50 – 4:20	Characterizing the development of North American source rock reservoirs: Insights from geochemical proxy data using an ensemble machine learning-based approach	Samantha Ritzer
4:20 – 4:50	Update on Hydraulic Fracturing Test Site (HFTS) I in the Permian-Midland basin, and overview of the new HFTS II in the Permian-Delaware basin	Jordan Ciezobka
4:50 – 5:15	An Energy Frontier Research Center (EFRC) to achieve control of water-hydrocarbon-rock interactions in unconventional and tight-oil formations	Tony Kovscek
5:15 – 7:30	NETWORKING RECEPTION	