



Stanford Center for Carbon Storage Annual Meeting

May 27-28, 2015

Room 365, Green Earth Sciences Building

367 Panama Street, Stanford CA 94305

Wednesday, May 27 Research Review

8:30 a.m.	Continental Breakfast	
9:00 – 9:15 a.m.	Welcome and Overview	Tony Kavscek
Session I: Pore Scale Analysis		
9:15 – 9:35	Particle image velocimetry analysis of immiscible two-phase flow through porous media at the pore scale	Sophie Roman
9:35 – 9:55	Foam generation and coalescence in micromodels	Muhammad Almajid
9:55 – 10:15	Atomistic modeling of fluid wetting and transport processes in confined space	Chun-Yaung (Albert) Lu
Session II : Fracture Properties & Rock Physics		
10:15 – 10:35	Measuring fracture aperture and saturation using CT scanning and its application on modeling geomechanical impact on fluid flow in fractures	Da Huo
<i>10:30 – 10:45 a.m. Coffee Break</i>		
10:45 – 11:05	Poroelastic and fluid dynamic properties of CO ₂ transport in active fractures	Yves Gensterblum
11:05 – 11:25	The effects of the decarbonation reaction on the transport and elastic properties of carbonates	Dulcie Head
11:25 – 11:45	Fluid substitution in anisotropic media	Priyanka Dutta
Session III: Reaction Modeling & Simulation		
11:45 – 12:05	Controls on carbon mineralization from the pore to field scale: Implications for CO ₂ sequestration	Anna Harrison
12:05 – 12:25	Reactive transport modeling of CO ₂ storage in ultramafic rocks	Sara Farshidi
12:25 – 1:30 p.m.	Lunch	Arco Courtyard



Session IV: Monitoring & Process Modeling

1:30 – 1:50	Detection of leaks from pressure monitoring data	Dave Cameron
1:50 – 2:10	Multilevel pressure measurements for monitoring and prediction of CO ₂ plume migration	Christin Strandli
2:10 – 2:30	Upscaling of CO ₂ -brine flow with capillary heterogeneity effects	Avinoam Rabinovich
2:30 – 2:50	Gravity currents with convective mixing: high-resolution numerical simulations	Denis Voskov
<i>2:50 – 3:05 p.m. Coffee Break</i>		
3:05 – 3:25	Application of reduced-order modeling in CO ₂ sequestration	Larry Jin
3:25 – 3:45	Optimization of solvent-based CO ₂ capture process design using proxy models	Charles Kang

Session V: Shale Oil Recovery

3:45 – 4:05	Idealized shale porosity measurements for standard references in theoretical modeling	Randall Holmes
4:05 – 4:25	The effect of shale mineralogy on CO ₂ adsorption isotherms	Maytham Al Ismail
4:25 – 4:45	Experimental investigation of oil recovery from Bakken shale by miscible CO ₂ injection	Cathy Zhang
4:45 – 5:05	The potential of CO ₂ storage in shale and its impact on recovery	Hamza Aljamaan
<i>5:05 – 5:15 p.m. Coffee Break</i>		

5:15 – 5:45	General Discussion, Feedback and Future Priorities	Sally Benson
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6:00 p.m.	Poster Session & Reception	Arco Courtyard
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