

**Annual Affiliates Meeting**  
**Thursday November 7, 2019**  
*Stanford University | Hartley Conference Room*

Time	Topic	Speaker
8:00 - 8:30	<b>BREAKFAST</b>	
8:30 - 8:40	Welcoming Remarks	Sarah Saltzer
8:40 - 9:15	Opening Keynote: Continuous Monitoring	Biondo Biondi
9:15 - 9:30	<b>Geomechanics group</b>	Mark Zoback
9:30 - 9:50	Effect of supercritical CO <sub>2</sub> on matrix permeability in unconventional formations	Arash Kamali Asl
9:50 - 10:10	Molten-media methane pyrolysis for generation of solid carbon	Gregory Von Wald
10:10 - 10:25	<b>BREAK</b>	
10:25 - 10:40	<b>Center for Mechanistic Control of Unconventional Formations</b>	Tony Kavscek
10:40 - 11:00	Breakdown pressure of Green River Shale with Sc-CO <sub>2</sub> and water monitored using X-ray computed tomography	Talal Alshafloot
11:00 - 11:20	Multiscale investigation of reactive Sc-CO <sub>2</sub> in carbonate-rich nano-darcy shale	Youssef Elkady
11:25 - 12:25	<b>LUNCH</b>	
12:20 - 2:00	<b>WORKING SESSION/DISCUSSION</b> Accelerating Carbon Capture by combining value engineering with EOR revenues and new federal incentives	Jeff Brown
2:00-2:15	<b>BREAK</b>	
2:15-2:30	<b>The Benson Lab</b>	Sally Benson
2:30-2:50	The impact of small-scale rock heterogeneity on CO <sub>2</sub> plume migration and residual trapping	Maartje Boon
2:50-3:10	Data mining using unsupervised learning to characterize capillary flow and residual trapping	Hailun Ni
3:10-3:30	The long-term redistribution of residual CO <sub>2</sub> by Ostwald ripening	Yaxin Li
3:30-3:40	<b>BREAK</b>	
3:40-4:00	Multiphase flow prediction with deep neural networks	Gege Wen
4:00-4:20	The role of carbon capture and storage in decarbonizing California's electricity grid	EJ Baik
4:30-4:50	<b>WORKING SESSION/DISCUSSION</b> Industry Priorities and implications for SCCS	Sarah Saltzer
4:50-5:00	Toward Carbon Management: Stanford Carbon Initiative	Sarah Saltzer
5:00-6:00	<b>RECEPTION</b>	