

Annual Affiliates Meeting (Draft Agenda)

Tuesday November 2, 2021

Topic: Regional Analysis

Time (PDT)	Topic	Speaker
10:00-10:05	Welcoming Remarks	Sarah Saltzer
10:05-10:25	Carbon-free Fossil Fuel-based Alternatives to Oil and Gas: a Nigeria transition planning study	Fola Ayoola
10:25-10:45	Toward a Uniform Standard for Evaluating Sites for Geological Storage of Carbon Dioxide	J. Steve Davis
10:45-11:05	Optimizing Clean Hydrogen Infrastructure Buildout in California for Heavy-Duty Trucking Applications	Justin Bracci
11:05-11:25	Geological Carbon Storage Opportunities in Kern County	Tae Wook Kim
11:25-11:30	<i>5-Minute Break</i>	
11:30-11:50	Hydrogen Storage in Porous Media: Preliminary Site Selection Criteria	Rita Okoroafor
11:50-12:10	Development of Gas Power Plants with Carbon Capture and Storage in California's Electricity Sector	EJ Baik
12:10-12:30	Distributional Health Effects of Electricity Imports	Nora Henessey
12:30 -1:00	Group Discussion	Everyone
1:00 pm	<i>Adjourn</i>	

Tuesday November 9, 2021

Topic: Pore-to-Core

Time (PDT)	Topic	Speaker
10:00-10:05	Welcoming Remarks	Tony Kavscek
10:05-10:25	The Impact of Small-scale Lamination on CO ₂ Plume Migration	Maartje Boon
10:25-10:45	Long-Term Permeability Evolution of Shale Rocks with Argon and scCO ₂	Arash Kamali Asl
10:45-11:05	Stratigraphic Stress Variations Control Vertical Hydraulic Fracture Growth and the Characteristics of Injection-induced Microseismicity	Arjun Kohli
11:05-11:25	Investigating Transport and Structural Changes of Faults Slipping under sc-CO ₂ Conditions in Shale	Talal Al Shafloot
11:25-11:45	Visualizing fracture-matrix interactions during single- and multi-phase flows using imaging techniques	Takeshi Kurotori
11:45-12:05	Long-term redistribution of residually trapped CO ₂ due to non-convective transport	Yaxin Li
12:05 -12:30	Group Discussion	Everyone
12:30	<i>Adjourn</i>	

Annual Affiliates Meeting (Draft Agenda)

Tuesday November 16, 2021

Topic: Modeling and Simulation

Time (PDT)	Topic	Speaker
10:00-10:05	Welcoming Remarks	Lou Durllofsky
10:05-10:25	Monitoring well optimization with history matched CO ₂ plume tracking	Dylan Crain
10:25-10:45	Numerical Investigation of Geomechanical Effects of Past Reservoir Depletion and Future CO ₂ Injection in the GOM	Sam Hashemi
10:45-11:05	The Impact of Dip Angle on CO ₂ Storage in Saline Aquifers	Catherine Callas
11:05-11:25	An Open-source Multiphysics Simulator for Exascale Carbon Storage Simulation	Herve Gross
11:25-11:45	Deep-learning-based coupled flow-geomechanics surrogate model for CO ₂ sequestration	Lou Durllofsky
11:45-12:05	U-FNO - an enhanced Fourier neural operator based-deep learning model for multiphase flow	Gege Wen
12:05 – 12:30	Group Discussion	Everyone
12:30	<i>Adjourn</i>	