

Session Program

May 19 - 22, 2025



InterPore2025

17th Annual Meeting
& Conference Courses

19 - 22 May 2025
Albuquerque, New Mexico, USA
Conference Courses 18 & 23 May

Photo credit: rufhdan/13444

InterPore2025

MS01

Mon, May 19

11:25 AM

MS01: 1.1

Session

11:25 - 11:40 AM

Experimental Investigation of Mineral Precipitation Dynamics in Porous Media and Its Impact on Rock Properties

Speaker

Anna Kottsova

11:40 - 11:55 AM

Geochemically induced alteration in geothermal reservoirs and their implications for sustainable energy production

Speaker

Adedapo Awolayo

11:55 AM - 12:10 PM

Mixed-Dimensional Multiphase Model for Fractured Geothermal Reservoirs

Speaker

Omar Duran

12:25 PM

5:10 PM

MS01: 1.3

Session

5:10 - 5:25 PM

The Impact of Carbon Dioxide- Methane Co-Injection into Deep Saline Reservoirs: A Case Study from the Otway Storage Site

Speaker

Catherine Callas

5:25 - 5:40 PM

Microfluidic Study of the Pore-Filling and Propagation Behaviors of CH₄ and CO₂ Hydrates in Porous Media

Speaker

Wei Yu

5:40 - 5:55 PM

Methodological considerations to assess biogeochemical reactivity during hydrogen storage in a carbonate aquifer

Speaker

Tom Bultreys

6:10 PM

Tue, May 20

2:05 PM

MS01: 2.3

Session

2:05 - 2:20 PM

From natural gas storage to hydrogen storage: Microscopic flow dynamics of hydrogen versus methane in fractured reservoir rock

Speaker

Sojwal Manoorkar

2:20 - 2:35 PM

Real time micro-CT imaging of gas-gas mixing in the presence of brine

Speaker

Dr Samuel Jackson

2:35 - 2:50 PM

Dynamics of Ostwald ripening in underground hydrogen storage

Speaker

Benzhong Zhao

2:50 - 3:05 PM

Characterizing Subsurface Hydrogen Migration using Neutron Imaging

Speaker

Dr Prakash Purswani

3:05 PM

Wed, May 21

9:05 AM

MS01: 3.1

Session

9:05 - 9:20 AM **Wettability alteration of microfluidic devices by in situ plasma**

Speaker

Sophie Roman

9:20 - 9:35 AM **Colloid-induced multiphase flow perturbations in porous media**

Speaker

Muhammad Muqet Iqbal

9:50 - 10:05 AM

Practical Demonstration of Dissolved Gas Injection for Geo-sequestration on Coalbeds

Speaker

Dr Grant Myers

10:05 AM

11:35 AM

MS01: 3.2

Session

11:35 - 11:50 AM **Redox reactions in near-wellbore tight rocks during gas storage**

Speaker

Qingyun Li

11:50 AM - 12:05 PM

An Integral Model of Gas Diffusion, Sorption, and CO₂ sequestration in Tight Dual-Porosity Organic-Rich Systems

Speaker

Ye Lyu

12:05 - 12:20 PM

Experimental Investigation of Mudrock Capillary Sealing and Resealing to CO₂

Speaker

Mohamed M. Awad

12:20 - 12:35 PM

Quantification for density-driven convection of CO₂ in water

Speaker

Yao Xu

12:35 - 12:50 PM

CO₂ Mass Transfer in Porous Media: Implications for Long-Term Carbon Sequestration in Saline Aquifers

Speaker

Mr Enoc Basilio

1:05 PM

12:50 - 1:05 PM

The effect of random and correlated heterogeneity on CO2 storage in saline aquifers

Speaker

Ravid Rosenzweig

2:05 PM

MS01: 3.3

Session

2:05 - 2:20 PM

Hydro-Geomechanical Reservoir Modelling of Underground Hydrogen Storage in a Saline Aquifer of the North German Basin

Speaker

Anna-Maria Eckel

2:20 - 2:35 PM

Numerically predicting surface displacement patterns to inform monitoring well strategies in underground H2 storage for a reservoir at Ketzin site in Germany

Speaker

Mrityunjay Singh

2:35 - 2:50 PM

Effects of Aquifer Salinity on Underground Hydrogen Storage

Speaker

Dr Michael Gross

2:50 - 3:05 PM

Techno-economic assessment of a novel hybrid plant for solar thermal hydrogen storage in subsurface systems

Speaker

Hasan Vural

3:05 PM