

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

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InterPore2025

MS25

Tue, May 20

2:05 PM

MS25: 2.3

Session

2:05 - 2:20 PM

Towards relative permeability-mineralization paradigms in vesicular basalt pore systems

Speaker

Shaina Kelly

2:20 - 2:35 PM

In-situ observation of mafic/ultramafic rock reactions with supercritical CO2 using neutron reflectometry

Speaker

Chelsea Neil

2:35 - 2:50 PM

Direct visualization of coupled mineral dissolution and precipitation to predict pore-clogging dynamics

Speaker

Jieun Kim

2:50 - 3:05 PM

Pore Network Modeling of Coupled Mineral Dissolution and Precipitation in Fractured Porous Media

Speaker

Agnieszka Budek

3:05 PM

Wed, May 21

11:35 AM

MS25: 3.2

Session

11:35 - 11:50 AM

Assessment of Hydrodynamic and Geochemical Controls on Carbon Mineralization Process in Mafic and Ultramafic Rocks

Speaker

Lawrence Opoku Boampong

11:50 AM - 12:05 PM

pH-Driven Mixing-Induced Carbonate Mineralization: Insights from Microfluidic Pore-Scale Experiments

Speaker

David Kyungtae Kim

12:05 - 12:20 PM

Mineralization-Induced Permeability Enhancement for Concurrent Carbon Storage and Critical Mineral Extraction from Ultramafic Intrusions

Speaker

C. Heath Stanfield

12:20 - 12:35 PM

Pore scale experimental and computational analysis of reactive transport in a natural limestone

Speaker

Hongkyu Yoon

12:35 - 12:50 PM

Impact of Fluid Inertia on Mixing-Induced Mineral Precipitation: Pore-Scale Simulations and Microfluidic Experiments

Speaker

Woonghee Lee

12:50 - 1:05 PM

Natural convection facilitates deep mineral leaching and precipitation in a dead-end pore

Speaker

Jinil Park

1:05 PM

Thu, May 22

9:05 AM

MS25: 4.1

Session

9:05 – 9:20 AM

Strategies for overcoming the challenge of gigaton-per-year basalt carbonation

Speaker

Benjamin Tutolo

9:20 – 9:35 AM

Identification of a characteristic time and length for CO₂ mineralization

Speaker

Vaughan Voller

9:35 – 9:50 AM

Geochemical Modelling CO₂ Mineralisation in Peridotite Formations, History Matching of a Pilot Test

Speaker

Mr Juerg Matter

9:50 – 10:05 AM

Investigation of Pore Characteristics for CO₂ Mineralization Through Digital Rock Physics

Speaker

Hyunjeong Jeon

10:05 – 10:20 AM

Experimental Study on Carbon Mineralization in Fractured Basalt using X-ray CT imaging

Speaker

Woojae Jang

10:20 – 10:35 AM

Oscillating Flow Leads to Sustained and Enhanced Mixing-Induced Mineral Precipitation in Porous Media

Speaker

Weipeng Yang

10:35 AM

12:05 PM

MS25: 4.2

Session

12:05 – 12:20 PM

A scaling law for reaction-induced fracturing during mineral carbonation and hydration

Speaker

Masaoki Uno

12:35 - 12:50 PM

Stability of two-phase flow with interfacial flux in CO₂ mineralization: Theory for complex system evolution

Speaker

Dr Laura Dalton

12:50 - 1:05 PM

Complex Carbonate Phases Drive Subsurface Carbon Mineralization Processes

Speaker

Nabajit Lahiri

1:05 PM