

Session Program

May 19 - 22, 2025



 **InterPore2025**

Sandia National Laboratories
Los Alamos NATIONAL LABORATORY
NEW MEXICO TECH
SCIENCE • ENGINEERING • RESEARCH • UNIVERSITY
THE UNIVERSITY OF NEW MEXICO

**17th Annual Meeting
& Conference Courses**

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

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InterPore2025

MS11

Thu, May 22

9:05 AM

MS11: 4.1

Session

9:05 - 9:20 AM

Rock microfluidics under pressure: enabling geochemical observations at subsurface conditions

Speaker

Wen Song

9:20 - 9:35 AM

New progressive particle clogging mechanism by dendritic build-up in porous domains.

Speaker

Walid OKAYBI

9:35 - 9:50 AM

Microbial transport toward residual chemical contamination trapped in low permeable regions of a microfluidic device with layered structural heterogeneity is optimal at moderate Peclet numbers

Speaker

Roseanne Ford

9:50 - 10:05 AM

Coupling microfluidics and Raman spectroscopy to measure concentration gradients in geological porous media

Speaker

Mr Mohamadou Sarr

10:05 - 10:20 AM

Probabilistic learning of gas wall interaction from molecular Dynamics simulations and applications to gas transport problems in nano micropores

Speaker

Quy Dong To

10:20 - 10:35 AM

Multiscale Analysis of Coupled Free-Flow and Porous Media Systems: Structured and Random Configurations

Speaker

Mario Del Mastro

10:35 AM

12:05 PM

MS11: 4.2

Session

12:05 - 12:20 PM

Inertia effects on mixing and reactive transport in porous and fractured media

Speaker

Peter Kang

12:20 - 12:35 PM

Microfluidic investigation of water-scCO₂ phase distributions in vesicular basalt pore system proxies

Speaker

Ms Kelsey Yao

12:35 - 12:50 PM

PORE-SCALE VISUALIZATION AND ANALYSIS OF MULTIPHASE FLOW IN FRACTURED POROUS MEDIA

Speaker

Jorge Avendaño

12:50 - 1:05 PM

Investigation of dissolvable gases transport in vadose zone by using micromodel experiments

Speaker

Yung-Wei Lee

1:05 PM