

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

MS13

Tue, May 20

2:05 PM

MS13: 2.3

Session

2:05 - 2:20 PM **BlueMat: Water-Driven Nanoporous Materials**

Speaker

Prof. Patrick Huber

2:20 - 2:35 PM

Tuning the wetting properties of micro- and meso-porous carbons: nanoscale insights from time-resolved synchrotron SAXS

Speaker

François Chaltin

2:35 - 2:50 PM

Bound water transport by diffusion in wood revealed by Nuclear Magnetic Resonance

Speaker

Luoyi Yan

2:50 - 3:05 PM **Micro-occurrence of gas and water in shale nanopores**

Speaker

Mengdi Sun

3:05 PM

Wed, May 21

11:35 AM

MS13: 3.2

Session

11:35 - 11:50 AM

Microscopic Origin of Hysteresis in CH₄ Sorption-Induced Deformed Coal Matrix: Insights from Stepwise Hybrid GCMC/MD Simulations

Speaker

Zhehui Jin

11:50 AM - 12:05 PM

Experimental investigations of H₂, He, CH₄ and CO₂ adsorption, wettability and geomechanics on kerogen at geo-storage conditions

Speaker

Prof. Bin Pan

12:05 - 12:20 PM

Electrosorption-induced deformation of microporous carbons: molecular dynamics and mean-field theory

Speaker

Andrei Kolesnikov

12:50 - 1:05 PM

A novel DFT for associating fluids confined in nanopores and its application to water

Speaker

Antoine Barthes

1:05 PM