

# InterPore2025



## 17<sup>th</sup> Annual International Conference on Porous Media

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

### Interdisciplinary Porous Media Topics

The scientific program ranges from pore-scale modeling & imaging, to experimental and numerical methods on larger scales, to sensitivity and uncertainty analysis. Stay abreast of the latest porous media research on trending topics such as energy transition, biotechnics and nature-based agriculture. Presentations are structured across 27 minisymposia on a wide variety of porous media processes in highly diverse applications, including: carbon storage and clean energy recovery, oil and gas reservoirs, soil and groundwater, fuel cells, filters, foams, membranes and more.

InterPore2025 also offers opportunities to find collaborative industrial and application-oriented institutional research partners.

### Plenary Speakers



**Abbas Firoozabadi** - Rice University, USA  
Safe and efficient CO<sub>2</sub> sequestration in subsurface aquifers: viscosity enhancement, physics of displacement, and numerical modeling



**Sylvie Lorente** - Villanova University, USA  
Flow architectures in porous media, designing for efficiency



**Achraf Noureddine** - University of New Mexico, USA  
The love story between particle porosity and the biomedical field



**Suzana Nunes** - KAUST, Saudi Arabia  
Sub-nano and nanometer porosity design for precise separation

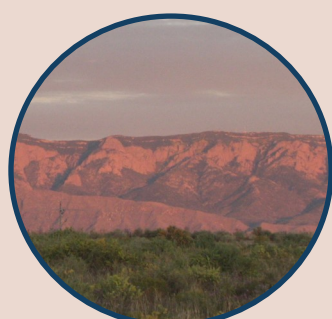
### Focus Theme: Water

When considering the topic of water and porous media, groundwater and hydrogeology come to mind first. We want to look at water in a broader context at this conference, covering topics like water supply, desalination, purification, biochars, sanitation, filtration, evaporation, constructed wetlands, biofilters, wastewater treatment, drip irrigation, hydroponics, permeable pavements, water-resistant outdoor gear, and any other natural or man-made situations where water interacts with porous materials.

### Conference Location

The landmark luxury **Hotel Albuquerque** is conveniently located in the heart of **Old Town** and the Sawmill District. In addition to serving as the conference venue, the hotel is the perfect base for exploring the historic Old Town, enjoying Southwestern cuisine, and engaging in the activities Albuquerque has to offer.

**Albuquerque** offers a unique blend of culture, history, and natural beauty, making it an ideal destination. With its vibrant arts scene, rich Native American heritage, and proximity to stunning landscapes like the Sandia Mountains, attendees can immerse themselves in diverse experiences.



### Networking Events

### Publishing Opportunities

### Focus Theme: Water & Porous Media

### Exhibition Hall

### Student Awards

### Conference Grants

### Online Access

### Invited Speakers

**Philippe Coussot** - Université Gustav Eiffel, France  
Water transport through hygroscopic porous materials (paper, wood, textiles, fiber panels): a subtle three-phase flow



**Luis Cueto-Felgueroso** - Technical University of Madrid, Spain  
Phase-field modeling for multiphase flow and geomechanical processes



**Behzad Ghanbarian** - University of Texas at Arlington, USA  
Effect of scale on flow and transport properties in porous media



**Jeffrey Hyman** - Los Alamos National Laboratory, USA  
The influence of multiple scales in fractured media on flow and transport properties



**Linda Luquot** - CNRS-Géosciences Montpellier, France  
Reactive transport processes in porous rock sample: role of local heterogeneities



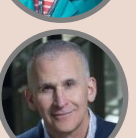
**Jennifer McIntosh** - University of Arizona, USA  
Evolution of subsurface fluid-rock-microbial systems over geologic timescales



**Karin Schroen** - Wageningen University, The Netherlands  
Membrane filtration revisited



**Daniel K. Schwartz** - University of Colorado Boulder, USA  
Anomalous transport in porous environments due to energy barriers, self-propulsion and dynamic confinement



### Program Committee

**Chair:** Jaime Gómez-Hernández - Universitat Politècnica de València  
**Vice-Chair:** Eleonora Secchi - ETH Zurich

### Local Organizing Committee

**Chair:** Hongkyu Yoon - Sandia National Laboratories  
**Co-Chairs:** Maryam Hojati - University of New Mexico;  
Alex Rinehart - New Mexico Tech;  
Hari Viswanathan - Los Alamos National Laboratory

[www.interpore.org/2025](http://www.interpore.org/2025)