

To register, please contact margaret.dieter@interpore.org



Martin J. Blunt
Imperial College

Multiphase Flow in Permeable Media: A Pore-Scale Perspective

Friday, 17 May | Time: 9:00 - 17:00 | Location: Xihuan 105 (西环 105)

This course will provide an in-depth description of multiphase flow in porous media with an emphasis on understanding pore-scale phenomena and their implications for storage and recovery processes.



Majid Hassanizadeh
Utrecht University

Capillarity in Porous Media at Different Scales

Sunday, 12 May | Time: 9:00 - 12:00 | Location: Xihuan 101 (西环 101)

Highlights on the topic of "Capillarity in Porous Media at Different Scales." In the course, a systematic approach is taken to the understanding of capillarity in porous media at different scales.



Moran Wang
Tsinghua University

Microscale flow and multiphysical transport in porous media (In Chinese)

Sunday, 12 May | Time: 9:00 - 17:00 | Location: Xihuan 201 (西环 201)

InterPore China Chapter Committee provides this course in Chinese language during InterPore2024, which presents highlights on in-depth understanding of microscale flow and multiphysical transports in porous media, with an emphasis on microscale mechanisms and scale and coupling bridges.



Olaf Andersen
Fraunhofer Institute for Manufacturing
Technology and Advanced Materials

Introduction to powder metallurgically manufactured porous materials

Friday, 17 May | Time: 9:00 - 12:00 | Location: Xihuan 201 (西环 201)

The course gives an overview on commercial and developmental porous metals that are manufactured by powder metallurgical methods. The manufacturing processes as well as key properties and applications are explained.



Eric Pui-Lam Ho
Thermo Fisher Scientific

Multi-Scale Multi-Modal Correlative Analysis including image Analysis (CT/FIB/Avizo - Hands On Tutorial)

Sunday, 12 May | Time: 14:00 - 17:00 | Location: Xihuan 104 (西环 104)

For this course, the attendees will be provided the most popular and powerful image processing and analysis software free of charge for 30 days. During the course, the instructor will guide the attendees by using their computers to analysis a porous sample for porosity, permeability, and flow simulation.



Saeid Sadeghnejad
Institute for Geosciences,
Friedrich-Schiller-University

Machine learning integration with pore-scale studies: concepts and applications

Sunday, 12 May | Time: 9:00 - 12:00 | Location: Xihuan 102 (西环 102)

This course investigates into the synergy between machine learning techniques and digital rock physics (DRP) workflow, offering a comprehensive exploration of concepts and applications. Participants will gain insights into open areas that warrant further exploration, fostering a forward-looking perspective on the integration of machine learning with pore-scale studies.



**Mohammad Nooraiepour,
Mohammad Masoudi, & Helge Hellevang**
University of Oslo

Advances in CO2 Sequestration in Reactive Basaltic Rocks through Mineral Carbonation

Friday, 17 May | Time: 9:00 - 12:00 | Location: Xihuan 105 (西环 202)

Explore the forefront of geological carbon storage (GCS) by delving into mineral carbonation in basaltic rocks, a highly promising technology that leverages the unique blend of characteristics in mafic and ultramafic rocks abundant in the Earth's crust.