

First Circular

InterPore China Chapter Annual Conference 2026

Theme:

Multiscale Characterization and Simulation of Porous Media for Sustainable Subsurface Energy Resources - Current Status and Future Perspectives

Date:

July 13–15, 2026

Venue:

Nanjing University Suzhou Campus

1520 Taihu Avenue, Huqiu District, Suzhou, China

Conference Overview

As the energy system transitions toward low-carbon and sustainable development, the efficient and environmentally responsible utilization of subsurface energy resources has become increasingly important. Multiphase flow, multi-physics coupling, and reactive transport processes in porous media are widely involved in subsurface engineering applications, including oil and gas recovery, geological carbon and hydrogen storage, geothermal energy development, and groundwater resource management.

Advanced core characterization techniques, together with multiscale simulation methods, provide essential tools for revealing the microscopic structure of porous media and the mechanisms of fluid flow and transport, enabling understanding and predictive modelling from the pore scale to the engineering scale. To promote interdisciplinary integration between porous media science and sustainable subsurface energy engineering, and to advance the development and application of frontier technologies such as core characterization, digital rock analysis, multiscale modeling, and artificial intelligence, the **InterPore China Chapter Annual Conference 2026** will be held under the following theme:

“Multiscale Characterization and Simulation of Porous Media for Sustainable Subsurface Energy Resources: Current Status and Future Perspectives”

The conference will bring together researchers, engineers, and professionals from related fields in China and internationally to discuss fundamental scientific questions and technical challenges in porous media research and subsurface energy engineering, and to foster collaborative innovation between fundamental research and engineering applications.

Conference Topics

(including, but not limited to)

1. Advanced rock-fluid characterization technologies for the energy transition
2. Flow and multi-physics coupling processes in porous media
3. Multiscale imaging and experimental techniques
4. Microfluidic experiments and pore-scale mechanisms
5. Pore-scale models and upscaling methods
6. Reactive transport and geochemical–flow coupling
7. Digital rock and AI-assisted modeling
8. Core-to-reservoir integration: from characterization to development strategy
9. Geological CO₂ storage and underground hydrogen storage
10. Multiphase flow and thermo-hydro-mechanical coupling in subsurface processes

Invited Speakers

The conference plans to invite distinguished experts and scholars from China and abroad in the areas of rock characterization, digital rock physics, flow in porous media, and multi-physics coupling. Invited participants will include leading academic researchers as well as technical and engineering leaders from industry. Discussions will focus on key scientific questions and engineering application needs **from core-scale understanding to field-scale engineering practice**.

Poster Submission

1. The poster size for this conference is **80 cm (width) × 120 cm (height)**. The poster template has been uploaded to the conference website and conference service system. **Posters should be prepared in English**. Participants are requested to **bring a printed version of their poster to the conference venue**, as **on-site poster printing will not be provided**.
2. The **electronic version of the poster** should be submitted through the conference service mini-program.
3. **Poster submission deadline: June 30, 2026.**

Organizers

Hosts:

- School of Sustainable Energy and Resources, Nanjing University
- China InterPore Chapter

Organizer:

- Institute of Sustainable Subsurface Resources, Nanjing University

Co-organizers:

- Research Center of Multiphase Flow in Porous Media, China University of Petroleum (East China)
- Nanjing University (Suzhou) High-tech Research Institute

Scientific Committee

(continuously updated)

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Organizing Committee

(continuously updated)

Secretaries-General:

Yongfei Yang, Ke Xu, Daoyuan Tan

Conference Secretaries:

Lillian Li, Lele Wang

Contacts

Daoyuan Tan: dytan@nju.edu.cn

Lillian Li: lmli@nju.edu.cn | Tel: +86 18851193690

Zhaoyang Ma: zhaoyang.ma@nju.edu.cn

Lele Wang: lele.wang@nju.edu.cn