

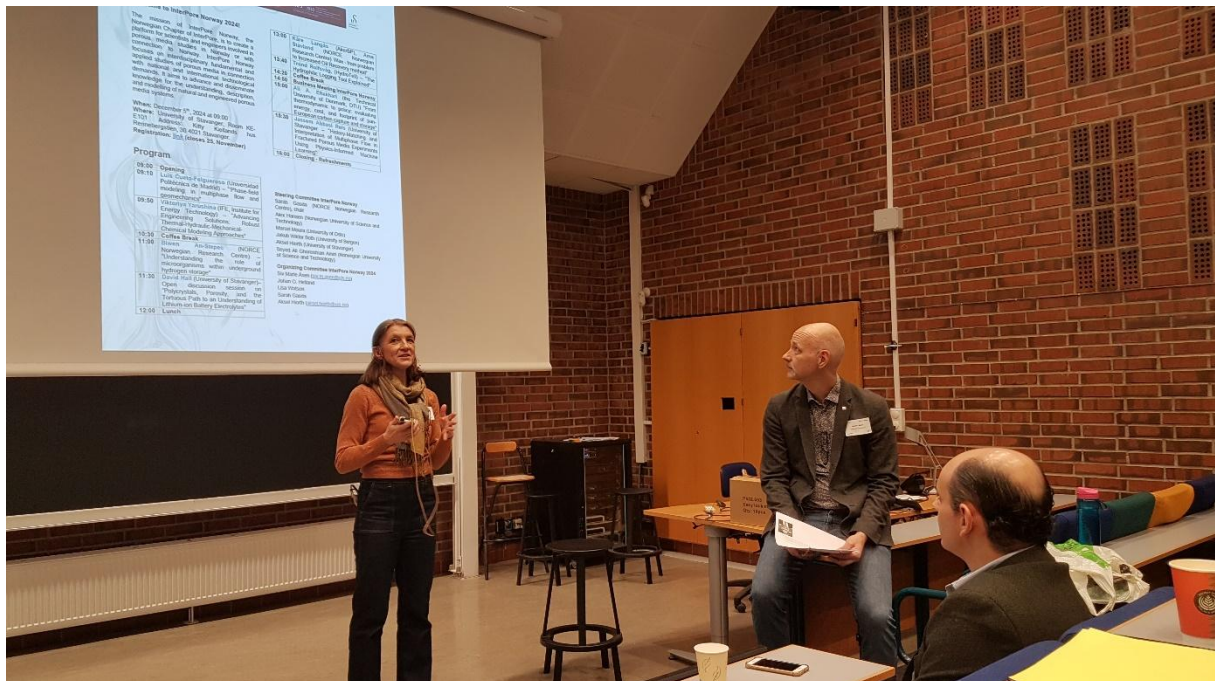
## Summary InterPore Norway 2024

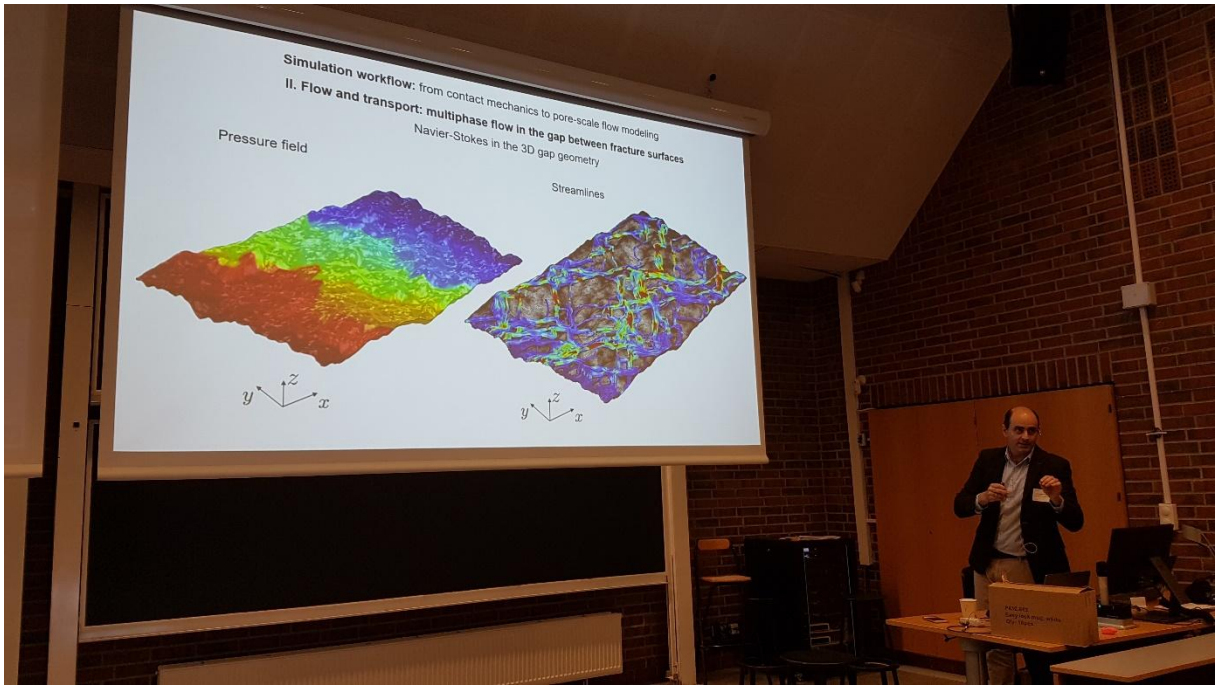
The 7th meeting of the Norwegian Chapter of InterPore was held in Stavanger on December 5th, 2024. The meeting was organized by Siv Marie Åsen, Johan O. Helland, Lisa Watson, Sarah Gasda, and Aksel Hiorth (chair). It was hosted by NCS2030 and the University of Stavanger. About 40 participants attended the annual workshop, with a balance between university, industry, and research institutes, both in terms of participants and speakers.

A full day of scientific talks was kicked off by the international guest Luis Cueto-Felgueroso from Universidad Politécnica de Madrid, who talked about his work on phase-field modeling of challenging fracturing processes as well as multiphase flow in rough fractures.

Furthermore, a list of Norwegian research was presented, including THMC processes and sub-seabed CO<sub>2</sub> release and leakage in abandoned wells (Viktoriya Yarushina), microbiology in the context of underground hydrogen storage (Annie Biwen), PINNS for multiphase flow in fractured media (Jassem Abbasi), wax in hydrocarbon production for near wellbore treatment and water-shutoff (Arne Stavland), and the use of simple logging tools to estimate water-oil contact lines in the field (Trond Rolfsvåg). Finally, Ali Eftekhari from DTU rounded off the scientific day with his view on CCS policy.

A business meeting of the Norwegian Chapter of InterPore was included as part of the program. A presentation of activities was given, and a transparent process of changes in the bylaws was conducted. This marked the final business meeting headed by the chair Sarah Gasda, as she, together with Alex Hansen and Marcel Moura, rotated out of the board after eight successful years of creating and shaping InterPore Norway. Exciting elections were held to find their successors. The board now consists of Seyed Ali Ghoreishian Amiri, Jakub Both (new chair), Aksel Hiorth (remaining seated), and now welcoming Mohammad Nooraiepour (UiO), Paula Reis (UiO), and Santanu Sinha (NTNU).





## Welcome to InterPore Norway 2024!

The mission of InterPore Norway, the Norwegian Chapter of InterPore, is to create a platform for scientists and engineers involved in porous media studies in Norway or with connection to Norway. InterPore Norway focuses on interdisciplinary fundamental and applied studies of porous media in connection with national and international technological demands. It aims to advance and disseminate knowledge for the understanding, description, and modelling of natural and engineered porous media systems.

**When:** December 5<sup>th</sup>, 2024 at 09:00

**Where:** University of Stavanger, Room KE-E101 Address: Kitty Kiellands hus Rennebergstien, 30 4021 Stavanger.

**Registration:** [link](#) (closes 25. November)

## Program

09:00	<b>Opening</b>
09:10	<b>Luis Cueto-Felgueroso</b> (Universidad Politécnica de Madrid) – “Phase-field modeling in multiphase flow and geomechanics”
09:50	<b>Viktoriya Yarushina</b> (IFE, Institute for Energy Technology) – “Advancing Engineering Solutions: Robust Thermal-Hydraulic-Mechanical-Chemical Modeling Approaches”
10:30	<b>Coffee Break</b>
11:00	<b>Biwen An-Stepec</b> (NORCE Norwegian Research Centre) – “Understanding the role of microorganisms within underground hydrogen storage”
11:30	<b>David Hall</b> (University of Stavanger)– Open discussion session on “Polycrystals, Porosity, and the Tortuous Path to an Understanding of Lithium-ion Battery Electrolytes”
12:00	<b>Lunch</b>

13:00	<b>Kåre Langås</b> (AkerBP), <b>Arne Stavland</b> (NORCE Norwegian Research Centre) Wax - from problem to Increased Oil Recovery method”
13:40	<b>Trond Rolfsvåg</b> , (HydroTell) – “The Hydrophilic Logging Tool Explained”
14:20	<b>Coffee Break</b>
14:50	<b>Business Meeting InterPore Norway</b>
15:00	<b>Ali A. Eftekhari</b> (the Technical University of Denmark, DTU) “From thermodynamic to policy: evaluating energy, cost, and footprint of pan-European carbon capture and storage”
15:30	<b>Jassem Abbasi</b> (University of Stavanger – “History-Matching and Interpretation of Multiphase Flow in Fractured Porous Media Experiments Using Physics-Informed Machine Learning”
16:00	<b>Closing - Refreshments</b>

### Steering Committee InterPore Norway

Sarah Gasda (NORCE Norwegian Research Centre), chair

Alex Hansen (Norwegian University of Science and Technology)

Marcel Moura (University of Oslo)

Jakub Wiktor Both (University of Bergen)

Aksel Hiorth (University of Stavanger)

Seyed Ali Ghoreishian Amiri (Norwegian University of Science and Technology)

### Organizing Committee InterPore Norway 2024

Siv Marie Åsen ([siv.m.assen@uis.no](mailto:siv.m.assen@uis.no))

Johan O. Helland

Lisa Watson

Sarah Gasda

Aksel Hiorth ([aksel.hiorth@uis.no](mailto:aksel.hiorth@uis.no))