

5th National Workshop on Porous Media

December 1st, 2022, Trondheim

Background

The mission of 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. The Norwegian Chapter of InterPore focuses on interdisciplinary and fundamental studies of porous media in connection with applications and 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.

The Norwegian Chapter of InterPore (InterPore Norway) was founded in September 2016 with a kick-off workshop in Bergen. The annual workshop was conducted from 2017 in Trondheim, Oslo, Stavanger and Bergen, except in 2021, which was cancelled due to the COVID-19 pandemic.

Scope

Theoretical, computational and experimental poromechanics, porous media science and technology.

Topic

Recent technological advances in porous media research, microfluidics, thermo/fluid dynamics, poromechanics, and rheology–theory, modelling, and experiments.

Workshop Format

Lectures in different disciplines of porous media given by national and international invited speakers, followed by a poster session.

Program December 1st, 2022

- 09:15** **Steffen Berg, Shell**
Derivation of 2-phase Darcy for stationary flow from the pore scale fluctuation's energy dynamics
- 10:00** **Signe Kjelstrup, NTNU**
Boundary-driven transport of water in porous media
- 10:45** **Gaute Linga, Universitetet i Oslo**
Chaotic mixing in unsteady porous media flows
- 11:30** **Lunch**
- 12:30** **Erika Eiser, NTNU**
Nacre-inspired approach to design clay-biopolymer composites for functional coatings
- 13:15** **Alex Xavier Jerves, NGI**
A case of study of Øysand on 3DLS-DEM-based virtual laboratory testing
- 14:00** **Coffee break**
- 14:15** **Martin Fernø, Universitetet i Bergen**
The FluidFlower initiative – a physical porous media flow rig for interdisciplinary underground research
- 15:00** **Marcel Moura, Universitetet i Oslo**
Drainage experiments in porous media: from viscous fingers to compact invasion to film flow
- 15:45** **Coffee break**
- 16:00** **Poster session & discussions**
- 17:30** **End of scientific programme**

Place: PTS Paviljong P13

Address: S. P. Andersens veg 15, 7031 Trondheim

Registration: [Registration Form](#)

Deadline: November 15, 2022

Organization Committee NTNU:

Alex Hansen

Carl Fredrik Berg

Seyed Ali Ghoreishian Amiri