

3rd National Workshop on Porous Media

October 16th 2019, Stavanger

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/or fundamental studies of porous media in connection with applications and national and international technological demands. It aims to advance and disseminate the existing knowledge in description and modeling 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 workshop brought together an outstanding list of speakers, both from academia and industry.

Scope

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

Topic

Recent technological advances in porous media research, microfluidics, thermo/fluid dynamics, 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.

Steering Committee InterPore

Alex Hansen (NTNU), Chair
Gustav Grimstad (NTNU)
Kundan Kumar (UiB)
Sarah Gasda (NORCE)
Marcel Moura (UiO)

Program October 16th 2019

Chair Aksel Hiorth

- 09:15 **Bill Rossen, TU Delft**
Successes and Challenges for Microfluidics as Models for 3D Porous Media
- 10:00 **Matthew Jackson, Imperial College**
Zeta potential in crude-oil-brine-rock systems and its importance in enhanced oil recovery
- 10:45 **Martin Fernø, Universitetet i Bergen**
Laboratory pore-scale observations related to CO₂ storage and CCUS
- 11:30 **Lunch**

Chair Dmitry Shogin

- 12:30 **Johan Olav Helland, NORCE**
Three-phase capillary trapping in porous media
- 13:15 **Alex Hansen, NTNU**
Can we do better than relative permeability when scaling up immiscible two-phase flow in porous media?
- 14:00 **Coffee break**

Chair Sarah Gasda

- 14:15 **Gaute Linga, Universitetet i Oslo**
Influence of roughness, inertia and surface charge on fluid transport in fractures and pores: Insights from direct numerical simulations
- 15:00 **Coffee break**
- 15:15 Poster session & discussions
- 17:45 End of scientific programme

Place: Arkivenes Hus

Address: Richard Johnsens gate 12 – AH, 401

Registration

Online registration: www.uis.no/ior

Deadline September 20, 2019

More information

aksel.hiorth@uis.no or www.ntnu.edu/interpore

Organization Committee UiS/NORCE:

Sarah Gasda
Aksel Hiorth
Olav Aursjø
Dmitry Shogin