



2nd National Workshop on Porous Media

November 9th 2018, Oslo

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 knowledge for the understanding, 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 entitled "Porous media research in Norway: Theory, experiments, models, and applications". The workshop took place in Bergen and brought together an outstanding list of speakers, both from Academia and Industry.

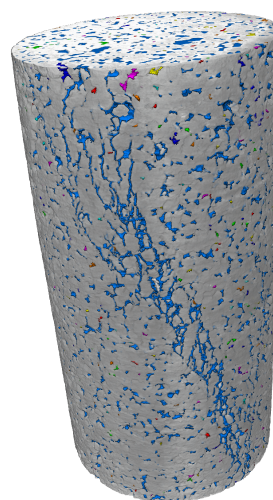
Scope

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

Topics

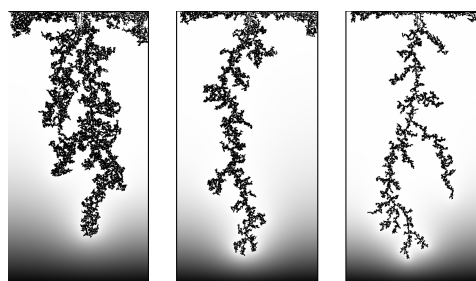
Transport phenomena
 Multiphysics-multiphase flow
 Reservoir engineering
 Soil mechanics and engineering,
 Geothermal energy
 Thin and nanoscale poromechanics
 Fuel cells and batteries

Food
 Papers
 CO₂ sequestration
 Constitutive modeling
 Swelling porous media
 Wave propagation
 Biotechnology
 Biofilms
 Composites
 Ceramics and constructions materials
 Other porous media applications



Workshop Format

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



Program November 9th 2018

09:15-10:00 *Tanguy Le Borgne* "Fluid mixing in porous media: experimental imaging and upscaling"

10:00-10:45 *Gustav Grimstad (NTNU)*
"Porous media in a geotechnical context
- constitutive modeling and effective
stress measures"

10:45-11:30 *Jan Martin Nordbotten
(University of Bergen)* "Mixed-
dimensional models in biological,
geological and industrial porous media"

11:30-12:30 **Lunch**

12:30-13:15 *Alex Hansen (NTNU)* "A
relation between saturation fluctuations
and fractional flow in immiscible two-
phase flow in porous media"

13:15-14:00 *Francois Renard (UiO)*
"Porosity evolution in rocks when
approaching failure is a critical
phenomenon"

14:00-14:15 **Coffee break**

14:15-15:00 *Carl Fredrik Berg (NTNU)*
"Can Minkowsky functionals describe
energy change during quasi-static
displacement?"

15:00-15:30 *Eirik Grude Flekkøy (UiO)*
"Deformable porous media, labyrinths
and transport inside them"

15:30-15:45 **Coffee break**

15:30-18:00 Poster session &
discussions.

Place:

Address: Gaustadalleen 21
Room: Toppenteret, FAROS



Registration:

Online registration:

<https://skjema.uio.no/interpore2018>

Deadline October 15, 2018

More information

E-mail: mihailo.jankov@fys.uio.no

Web: www.ntnu.edu/interpore

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