



## 2<sup>nd</sup> 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 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 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 the Industry.

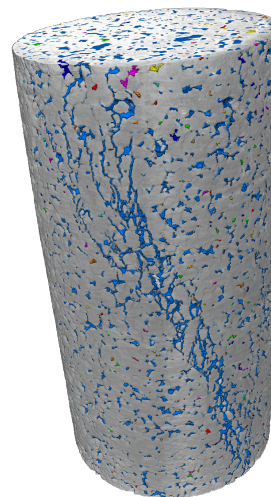
### **Scope**

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

### **Topics**

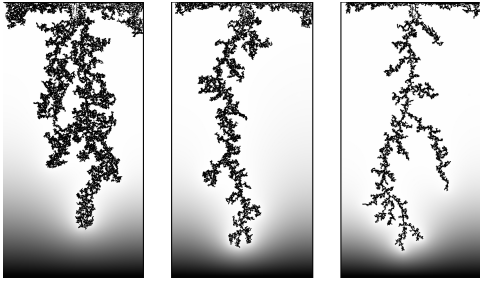
Transport phenomena  
Multiphysics-multiphase flow  
Reservoir engineering

Soil mechanics and engineering,  
Geothermal energy  
Thin and nanoscale poromechanics  
Fuel cells and batteries  
Food  
Papers  
CO<sub>2</sub> 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

Chair *Knut Jørgen Måløy*

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

10:00-10:45 *Seyed Ali (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**

Chair *Fredrik Kvalheim Eriksen*

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**

Chair *Marcel Moura*

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

15:00-15:30 *Kristian Stølevik Olsen (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

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Web: [www.ntnu.edu/interpore](http://www.ntnu.edu/interpore)

## Organization Committee PoreLab UiO:

Knut Jørgen Måløy

Mihailo Jankov

Marcel Moura

Mino Thorud

## Steering Committee InterPore:

Alex Hansen (NTNU), Chair

Gustav Grimstad (NTNU)

Kundan Kumar (UiB)

Halvor Møll (SINTEF)

Sarah Gasda (Uni Research)

Marcel Moura (UiO)

