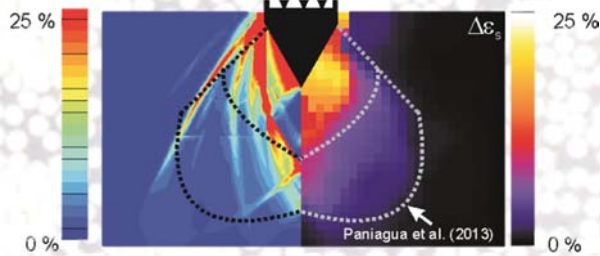




INTERPORE

Norwegian InterPore Chapter



1st National Workshop on Porous Media

October 18 2017

Trondheim



NTNU – Trondheim
Norwegian University of
Science and Technology



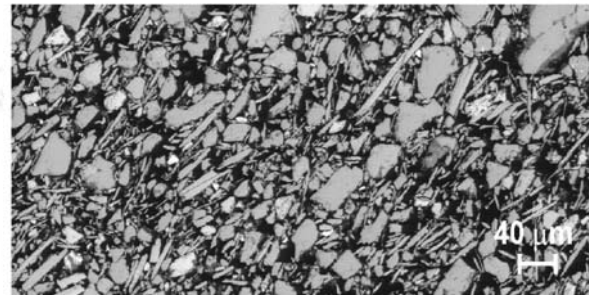
Background:

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 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 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.

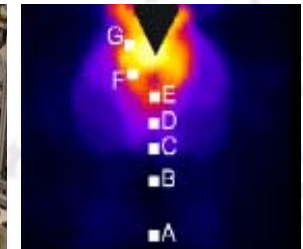
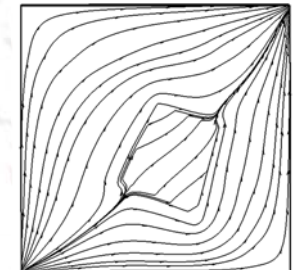
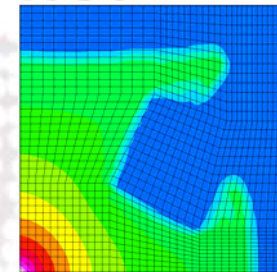
Scope:

Theoretical, computational and experimental poromechanics and porous media technology.



Topics and Applications:

- Transport phenomena
- Multiphysics-multiphase flow
- Reservoir engineering
- Soil mechanics and engineering
- Geothermal energy
- CO₂ sequestration
- Constitutive modelling
- Swelling porous media
- Wave propagation
- Biotechnology
- Biofilms
- Thin and nanoscale poromechanics
- Fuel cells and batteries
- Food
- Papers
- Composites
- Ceramics and constructions materials
- And 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 with short presentations.

Program 18th October 2017:

- 09:00 – 09:10 **Opening**, Alex Hansen, NTNU
- 09:10-09:55 *International key-note speaker:*
Pore-scale Imaging and Modeling of Multiphase Flow and Reactive Transport, Branko Bijeljic, Imperial College
- 09:55-10:40 **Critical state soil mechanics**, Steinar Nordal, NTNU
- 10:40-11:25 **New Center of Excellence – PoreLab - Visions**, Alex Hansen, NTNU
- 11:25-12:45 **Lunch**
- 12:45-13:30 **Mathematical modeling and discretization for flow and deformation of fractured porous materials**, Jan Martin Nordbotten, University of Bergen
- 13:30-14:15 **Physics, chemistry and geology for improved geomechanics**, Suzanne Lacasse, NGI
- 14:15-14:45 **Coffee Break**
- 14:45-15:30 **Pattern formation and flow in frictional fluid systems**, Knut Jørgen Måløy, University of Oslo
- 15:30-16:15 **Fluid–structure interaction by isogeometric finite element approach**, Trond Kvamsdal, SINTEF/NTNU
- 16:15-16:30 **Coffee Break**
- 16:30-17:00 Poster presentations
- 17:00-18:30 Poster session, discussion & snack



Abstract:

Submission deadline: 15 Sep. 2017

Abstracts must be in English. Submissions accepted online. Please refer to the website for detailed instructions.

Registration:

Online registration (see the website)

Early registration deadline: 15 Sep. 2017

Members of InterPore Norway: Free

Non-members: 500 NOK (includes one year membership)

Regular registration deadline: 10 Oct. 2017

Members of InterPore Norway: 200 NOK

Non-members: 700 NOK (includes one year membership)

More Information:

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Web: www.ntnu.edu/interpore



Steering committee national chapter:

Alex Hansen (Norwegian University of Science and Technology), chair

Gustav Grimstad (Norwegian University of Science and Technology)

Kundan Kumar (University of Bergen)

Halvor Møll Nilsen (SINTEF)

Sarah Gasda (Uni Research)

Marcel Moura (University of Oslo)