



INTERPORE News

Issue #04, 21 February 2020

Editorial

Dear InterPore friends,


The InterPore board has made the tough decision to postpone the annual conference after weighing all the different options. In the end, we want a safe and enjoyable event with a relaxed atmosphere and undivided attention to each others scientific achievements.

Two weeks ago, we launched the possibility to “promote your publications” via our newsletter. I am happy to report that within 24 hours, we received the first contribution! Well done, Philippe Coussot. It was soon followed by another contribution by Yongfei Yang, which means that we have two publications for you on offer today. Inspired? Feel free to send in your contribution as well.

Enjoy reading!

Matthijs de Winter
Editor-in-Chief, *InterPore News*

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InterPore2020 Postponed until 30 August - 4 September 2020

Due to rising concerns of the development of the Coronavirus outbreak, the annual InterPore conference scheduled to be held 24 - 29 May 2020 has been postponed until **30 August - 4 September 2020**. The location of the conference at the Shangri-La Hotel in Qingdao, China remains the same. The Executive Committee has reached this decision after careful consideration of various options, and in consultation with the Local Organizing Committee. We apologize for any inconvenience this postponement may cause and will be providing our participants, exhibitors, and event partners the support they require as a result of this decision. Further details about possible changes to the program and/or new deadlines will be made available soon.



Call for abstracts: FRAME2020 Conference on Fractured Media

*21 - 24 September 2020
Politecnico di Torino, Italy*

The first **FRAME conference** will be held this year. FRAME 2020 - Fractured media: numerical methods for fluid flow and mechanics.

The conference aims at presenting and discussing cutting-edge issues about modeling and development of numerical tools for porous fractured media simulations. Areas of interest include, but are not limited to: Flow in fracture networks; Influence of roughness inside the fractures; Flow in fractured porous media; Up-scaling and homogenization; Coupled thermal, hydraulic and/or mechanical processes in fractured media; Fault reactivation and fracture deformation; Fracture propagation; Self organization of fracture networks; Non-linearities (such as geochemistry, dissolution inside the fractures etc...); Verification benchmarks; Uncertainty quantification/risk measurements; Artificial intelligence applied to fractured media; Graph based methods and Model reduction.

The organizing committee:

List of invited speakers:

Sandra Pieraccini (Politecnico di Torino)	Philippe Davy (CNRS - Université de Rennes)
Stefano Scialò (Politecnico di Torino)	Bernd Flemisch (Stuttgart Universität)
Scientific Committee of FRAME2020:	Luca Formaggia (Politecnico di Milano)
Inga Berre (University of Bergen)	Jeffrey De'Haven Hyman (Los Alamos National Lab)
Stefano Berrone (Politecnico di Torino)	Roland Masson (Université de Nice Sophia Antipolis)
Mohammad Karimi-Fard (Stanford University)	Adriana Paluszny (Imperial College)
Benoit Noetinger (IFP Energies Nouvelles)	
Geraldine Pichot (INRIA Paris)	

Abstract submission is now open. Abstracts are welcome for both oral presentation and/or poster session. Abstract submission will close on **30 April**.
Further information can be found [here](#)






Call for abstracts: GeoUtrecht 2020

*24 - 26 August 2020
Utrecht, The Netherlands*

The DGGV (Deutsche Geologische Gesellschaft – Geologische Vereinigung; German Geological Society) is organizing the [GeoUtrecht 2020](#) Annual Conference & Exhibition under the theme “EARTH – Treasures, Threats, Transitions”.

The conference is organized in collaboration with:

-  KNGMG (Koninklijk Nederlands Geologisch Mijnbouwkundig Genootschap – The Dutch Geological Society)
-  PalGes (Paläontologische Gesellschaft – The German Paleontological Society)
-  EAGE (European Association of Geoscientists and Engineers)

The meeting seeks to attract an international audience of about 800 geoscientists. DGGV's annual conference continues as one of the most popular events for the geological community in the heart of Europe with a tradition of delivering a strong technical program with keynote speakers from around the world, networking opportunities and activities that create a valuable forum for our geoscience community.

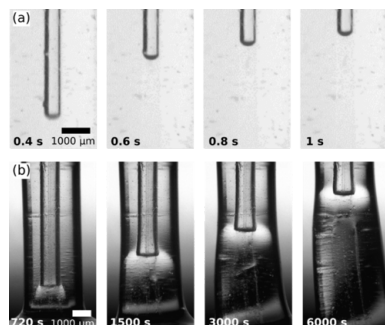
The deadline for abstract submission is **Tuesday, 5 May 2020**



INTERPORE In Journals

Wetting and imbibition dynamics governed by water adsorption in porous media with hygroscopic walls

Meng Zhou, Sabine Caré, Andrew King, Denis Courtier-Murias, Stéphane Rodts, Gaétan Gerber, Patrick Aïmedieu, Marie Bonnet, Michel Bornert, and Philippe Coussot



Capillary imbibition through a partially-dry, porous hygroscopic system can be up to a thousand times slower than in the same system wetted. Water inside hygroscopic porous media such as plant-like systems can be found either freely penetrating in capillaries or being absorbed (bound water) into the solid phase (cell walls). From Synchrotron and Magnetic Resonance Imaging, we show that a change from good to extremely poor wetting is observed when cell walls are not saturated with bound water, which almost stops the liquid displacement in the capillary, but further imbibition is preserved as long as water diffuses in the walls. This process appears to be operative in hydrogels, suggesting that this might be a general property of porous hygroscopic systems.

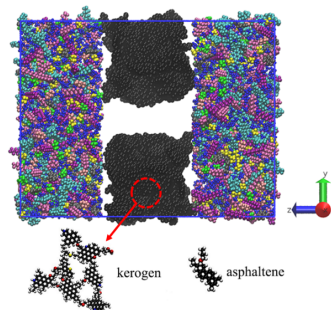
Phys. Rev. Research: [Wetting enhanced by water adsorption in hygroscopic plantlike materials](#)

Corresponding author: [Philippe Coussot](#)

Adsorption Behaviors of Shale Oil in Kerogen Slit by Molecular Simulation

Yongfei Yang, Jie Liu, Jun Yao, Jianlong Kou, Zheng Li, Tianhao Wu, Kai Zhang, Lei Zhang, Hai Sun

We have studied the adsorption behavior of hydrocarbon mixtures in real irregular kerogen slit. The heterogeneous adsorption behavior is illustrated by the potential of the mean force in mechanism of energy. The effects of temperature and slit aperture on the hydrocarbon distribution in the kerogen slit are also analyzed. We find that the medium component (C8, C12 and methylbenzene) is the most potential fraction to be extracted in thermal exploitation, and the kerogen slit aperture close to heavy molecular size facilitates the maximum adsorption density of hydrocarbons.



Chemical Engineering Journal: Adsorption behaviors of shale oil in kerogen slit by molecular simulation

Corresponding authors: Yongfei Yang and Jie Liu



RESEARCH Positions

Postdoc on molecular simulation of cationic exchange in clay, Université Paris-Est, Paris, France



INTERPORE Calendar

30 August - 4 September 2020: The 12th annual InterPore meeting (Qingdao, China)

1-2 October 2020: The German Chapter meeting (Stuttgart, Germany)

26-28 October 2020: The French Chapter meeting (Strasbourg, France) (Flyer)

2 November 2020: The Benelux Chapter meeting (Enschede, The Netherlands)

23-25 November 2020: The Australian Chapter meeting (Perth, Australia)

31 May - 3 June 2021: The 13th annual InterPore meeting (Edinburgh, UK)

15-21 May 2022 The 14th annual InterPore meeting (USA)



Imprint

InterPore News, www.interpore.org

Published in electronic form by International Society for Porous Media (InterPore)
Circulated free of charge to members and non-members of InterPore.

Articles and news items on the study and characterization of porous media,
especially when relevant to other types of porous media,
are welcomed for publication in this newsletter, issued twice a month.

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