



InterPore News

Issue #14, 10 July 2020

Dear InterPore Friends,

The summer holidays have arrived or are approaching fast for the northern hemisphere. For many it may not be summer holidays *as usual*. Nevertheless, I hope everyone finds some place and time to relax and get your mind off of things.

Clearing your mind might actually be a very good idea, as you need some fresh memory for the **InterPore2020** meeting. With an estimated **700 - 1000 abstracts** going into the program, we're looking at a massive collection of online presentations related to porous media research! Like an exhibition in a museum, the collection is temporary. [Register](#) for the **InterPore2020** event, and you can go and have a look.

All the best,
Matthijs de Winter
Editor-in-Chief
InterPore News

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InterPore Foundation needs your help

All of us want to expand the impact of our research, and building talent is a key component. Supporting the future of the community is a critical mission for the InterPore Foundation, and there are three ways we are accomplishing this:

1. through graduate student conference grants to cover registration for InterPore 2020 from 31 August to 4 September,
2. through supporting attendance of academic scientists from lower and middle income economies with registration waivers, and
3. through sponsoring the COVID-19 Outreach Program which is open to students and awards two prizes of 2,000 € and 1,500 € for original research proposals on mask designs.

Supporting talent is critical to carrying on the future of our field, so please consider donating any amount [using this link](#) for this important mission. Thank you for your help and support!



German Chapter Meeting: abstract submission deadline extended

The German Chapter of InterPore will hold its next assembly from 1-2 October 2020 at the University of Stuttgart. The German Chapter aims to unite people from diverse disciplines who study and work on porous media.

The deadline for the abstract submission for the Meeting of the German Chapter of InterPore 2020 is extended to 17 July 2020.

[Click here](#) for more information.



InterPore Awards

Conference Grant Program: Apply now for InterPore2020!

Applications for conference grants are still being accepted!



We are pleased to announce that InterPore Foundation for Porous Media Science and Technology (InterPore Foundation) would once again like to offer a significant number of conference grants to scientists from academic institutions from countries with lower- or middle-income economies, as defined by the World Bank (20 grants in total) and to graduate students (50 in total). These grants include the waiving of the conference fee of the now online InterPore2020 conference.

Please send the full application package to [Karolin Weber](#) by **Monday, 29 July**.

Look [here](#) for more details regarding the application requirements.

InterPore Foundation Competition: Student Research Proposal on Face Masks



Orna Wachman on Pixabay

InterPore Foundation invites proposals from graduate students on **innovative ideas to design and/or improve face masks against airborne bacteria and viruses**. The proposals will be reviewed by a panel of experts who will rate them on the basis of 1) intellectual novelty, 2) functionality, 3) practicality, and 4) cost effectiveness. **The winners of the top two proposals will receive 1500 € and 1000 €**, respectively, and they will be invited to present their PhD research at the next InterPore conference in Edinburgh, UK, 31 May till 03 June 2021. InterPore

Foundation will cover their registration fee and accommodation in addition to the prize money.

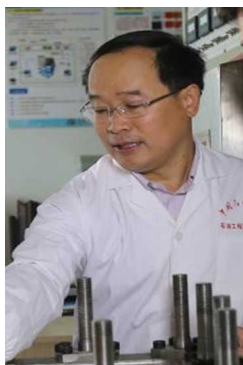
The deadline for proposal submissions is **1 August 2020**.

Details can be found [here](#).



Community News

InterPore congratulates Professor Jun Yao



Congratulations go out to Professor Jun Yao for being the 2020 recipient of the prestigious SPE and AIME Honorable Membership!

Prof. Yao is the director of Research Center of Multiphase Flow in Porous Media at China University of Petroleum, the head of the Chinese Chapter of InterPore and chair of the InterPore2020 Qingdao Organizing Committee.

Prof. Yao has been engaged in multiphase flow in porous media research and teaching work. He proposed the theoretical framework of modern seepage mechanics, and formed the seepage simulation method in five scales including molecular scale, pore scale, core scale, Darcy scale and fracture large scale as well as the scale associated upscaling method. He established numerical simulation methods for unconventional reservoirs and fracture-vuggy carbonate rock reservoirs and intelligent oilfield production optimization method based on machine learning and big data approach.

Well done, Professor Yao.

More on Prof. Yao's work can be found [here](#).



Call for Abstracts: AGU Fall meeting

Reactive transport in real rocks: implications for reservoir integrity, energy opportunities, and public acceptance

7 - 11 December 2020, San Francisco, USA

Efforts to develop novel uses of subsurface repositories for energy applications require that we understand how fluids interact with host formations over long time scales. Applications such as geologic carbon storage, compressed air energy storage, and enhanced geothermal energy production all offer pathways for reducing carbon emissions but also involve the introduction of fluids or gases into host rocks that may react to these perturbations. Predicting the flow of fluids in chemically and physically heterogeneous rocks is a challenge in both onland and offshore environments but is critical for understanding the long-term viability of these geological environments. It also determines their prospects for success from technical, economic, environmental and public acceptance perspectives. This session will highlight recent advances in understanding the coupled chemical and physical processes that govern fluid-rock interactions in these systems. Experimental, modeling and/or field research will be presented with an emphasis on integrated studies.

Deadline: 29 July
Submit your abstract [here](#).



Porous Media Tea Time Talks

Porous Media Tea Time Talks

#PorousMediaTTT

14th July 2020
10:00 am (CEST)

Speakers



UNSW
AUSTRALIA
**Chenhao
Sun**



**Shabina
Ashraf**



Characterization of wettability using topology and integral geometry in porous media

By: Chenhao Sun, University of New South Wales, Australia

&

Spontaneous imbibition anomalies in stratified layers

By: Shabina Ashraf, Indian Institute of Technology Delhi, India

Attend the live webinar and discussion at

<https://www.youtube.com/channel/UCuK0ogQKdSxq6pW-vljLN1Q>

short link: <https://bit.ly/2N9MGIv>

14.07.2020 at 3 pm CET (Your Time)
The YouTube Channel

The goal of the Porous Media TTT is to act as a complimentary platform to the already very successful Geoscience and Geoenergy webinars with the focus placed on young professionals.

We are very much looking forward to seeing you online!

Kamaljit Singh (HW), Marcel Moura (PoreLab, UiO), Tom Bultreys (UGhent), Mohammad Nooraiepour (UiO), Maja Ruecker (ICL)

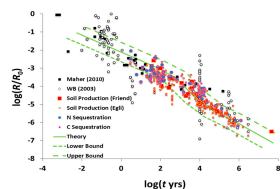


InterPore In Journals

Predicting Water Cycle Characteristics from Percolation Theory and Observational Data

Allen Hunt, Boris Faybishenko, Behzad Ghanbarian, Markus Egli and Fang Yu

Would you like to see how pore-scale processes at pore time (seconds) and space scales (tens of microns) can control the global water balance at time scales of a half century and more? Or how the time scales of 150 Myr for soil depths of 140 m relate to the same pore-scale processes? Take a cross-scale journey through the perspective of the percolation description of variable advection, which



links all these processes through remarkable space and time scales simultaneously as well as finding a way to deal with effects of future climate change on these processes. The determination of soil formation and vegetation growth rates in terms of fundamental hydrologic fluxes is the beginning of the story, while the optimization of carbon drawdown from the atmosphere by the biosphere finishes it.

International Journal of Environmental Research and Public Health 17(3),

734

Corresponding author: Boris Faybishenkori

*InterPore Members, do you want to promote your publication to the community? If so, please submit your highlight to newsletter@InterPore.org. **Clearly indicate which of the authors is an InterPore member (or the institute with an Institutional Membership)**. Note that we will not review the entries nor does InterPore endorse the published work. Furthermore, we publish on a “submitted first, published first” basis. The highlighted publication should be no older than 6 months (available online).*

*The highlight should be short (**max 100 words**) and contain an illustration. Please note that we offer this opportunity exclusively to InterPore members. If you would like to become a member, please have a look [here](#).*



InterPore Calendar

Date	Event
31 August - 4 September 2020	The 12th annual InterPore meeting (online)
September 2020	The Hellenic National InterPore Chapter meeting (Athens, Greece)
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)

Date	Event
15-21 May 2022	The 14th annual InterPore meeting (Albuquerque, New Mexico, USA)



Imprint

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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.

Find us on: [in](#) | [f](#) | [t](#)

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