InterPore News

Issue #11, 29 May 2020

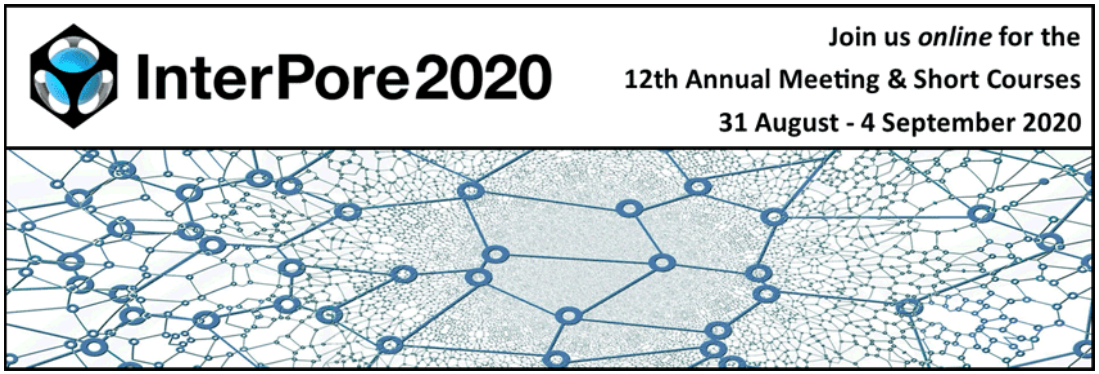
Dear InterPore friends,

Exciting news from the executive board! As previously mentioned in a Flashnews, our annual InterPore conference will continue this year as an online-only conference. More information can be found below and will be announced through the regular channels in the upcoming weeks. Despite lockdowns, social distancing and restricted lab access, science does continue. Two fascinating papers are highlighted in today's Newsletter. And don't forget to check the research positions, either for yourself or for someone near to you.

Stay happy and healthy,

Matthijs de Winter
Editor-in-Chief
InterPore News

Content



InterPore2020: Annual Meeting goes online

31 Aug - 4 Sept 2020
online only

As previously announced, InterPore2020 will be held as an online-only conference. InterPore would like to stress that a physical conference is preferred, but given the COVID-19 circumstances, the only option is online. We hope to get back together for a physical conference in 2021 again.

Some already emerging details of the online conference are listed here. Please note that **abstract submission will be reopened**. We're still working on the details of how to combine the existing program with the new abstracts. Furthermore, plenary speakers and invited speakers are being contacted to give online lectures. Once that part of the program has been established, it will be communicated as well.

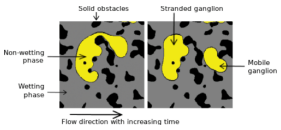
All currently known details of InterPore2020 can be found here.

InterPore In Journals

Promote your Publication

Nonlinear Darcy flow dynamics during ganglia stranding and mobilization in heterogeneous porous domains

A. G. Yiotis, A. Dollari, M. E. Kainourgiakis, D. Salin, L. Talon

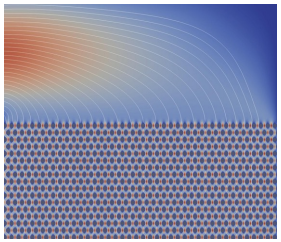


We investigate flow of non-wetting liquid ganglia in realistic, stochastically reconstructed porous domains using LBM to solve explicitly for momentum transport and interfacial dynamics at the pore scale. We show that the ganglia undergo a continuous cycle of dynamic coalescence and fragmentation, resulting in two populations (one mobile and one stranded). An increase in the applied Bond number results in a power-law scaling with an exponent which is a strong function of the non-wetting phase saturation.

Physical Review Fluids 4, 114302
Corresponding author: yiotis@ipta.demokritos.gr

Unsuitability of the Beavers-Joseph interface condition for filtration problems

Elissa Eggenweiler and Iryna Rybak



The correct choice of coupling conditions on the fluid-porous interface is crucial for accurate numerical simulations of coupled flow problems. We found out that the Beavers-Joseph interface condition is unsuitable for arbitrary flow directions. To validate our statement, we compare numerical simulation results for the coupled Stokes-Darcy problems to the pore-scale resolved models. We show also that the Beavers-Joseph parameter cannot be fitted for arbitrary flow directions.

Journal of Fluid Mechanics 892, A10
Corresponding author: Iryna Rybak, personal webpage

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 (500 characters) 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.

Community News

Call for Book Chapter Contributions

Our community is invited to contribute to an Elsevier book entitled *Climate and Land Use Impacts on Natural and Artificial Systems: Mitigation and Adaptation*. The book is designed to address the lack of communication between scientists/academics and administration, mainly in the field of climate and land use. Practice in the real world is not always related to the science.

A more elaborate invitation, including some guidelines and deadlines can be found here.

Research Positions

- Junior chair position with partnerships, Design and use of low carbon footprint materials for sustainable construction, Université de Pau et des Pays de l'Adour, France
- Postdoc, Modeling of Porous Media in Electrochemical Energy Conversion and Storage Devices, University Carlos III of Madrid, Spain

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

Imprint

InterPore News, www.new.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.

Find us on: | |

Editors

Hamed Aslannejad (Assistant Editor, Social Media)