



InterPore

2022 Annual Report

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PRESIDENT'S LETTER

Dear InterPore Colleagues,

This document is our first-ever annual report, representing calendar year 2022. We plan to compile and present this information annually, and with a template now in place will aim for an earlier release date following each new year.

Personally, while much of the data and pictures were things I had already seen, having it presented together was a reminder of all that we can be proud of and thankful for in InterPore, including:

- The InterPore2022 Conference was a hybrid conference that was put together on relatively short notice during the uncertainty and changing plans of the pandemic. The team at Khalifa University deserves a significant thank-you for both organizational and financial contributions that made this possible.
- The charts on page five, and the National Chapters highlights on page 11, underscore the degree to which InterPore is a truly International Organization.
- The Awards and highlights pages emphasize the scientific excellence that is a part of our community.
- The statistic on page 9 – greater than 90% satisfaction with the scientific program – is the most important indicator of why so many of us are invested in the organization and return year after year.
- The committee reports and activities pages highlight the depth and diversity of our volunteer participants; they also make clear the dedication and skill of the InterPore staff.
- The photos showing so many masked-up attendees in 2022 is a reminder of how thankful we all were to return to a normal conference format in 2023!

I hope this report provides a concise picture of InterPore activities that occur throughout the year, and that it helps you find a way to get involved if you are not already.

If you have suggestions about how future annual reports could be more informative, please let us know by contacting Amy Spang at amy.spang@interpore.org.

Sincerely,

A handwritten signature in blue ink that reads "Karsten Thompson".

Karsten Thompson
InterPore President

ANNUAL MEETING

InterPore2022 was the 14th annual meeting of the International Society for Porous Media and the society's first hybrid conference. The scientific portion of the conference was held over four days, with a welcome reception the evening prior to its beginning. Satellite short courses were also held prior to and post-conference. They were "Multiphase Flow in Permeable Media: A Pore-Scale Perspective" with Martin Blunt on Sunday, 29 May and "Capillarity in Porous Media at Different Scales" with S. Majid Hassanizadeh on Friday, 03 June. A total of 635 participants from 38 countries and over 140 different organizations attended the meeting. 221 participated in-person in Abu Dhabi and 414 joined online through Whova, the conference's online platform. All participants were provided access to Whova for the week prior to the meeting, through the three weeks following. Four plenary and eight invited speakers gave lectures during the conference. These lectures were recorded and made available for any-time viewing on Whova.

Throughout the course of the conference, 362 oral presentations from 24 minisymposia were given during 69 parallel sessions. The hybrid nature of the conference allowed authors to present their work either in-person or online during the sessions. Attendees could view the sessions in the physical session rooms at Khalifa University, with online presentations being broadcast into the room, or through Whova. 130 of the presentations were presented in-person while 232 were presented remotely. Authors of oral presentations were asked to provide pre-recorded presentations which were viewable at any time on Whova. The online chat and Q&A features also allowed for discussions outside of the set session times. 133 posters were also presented during the conference - 34 of them were displayed at the conference venue as well as online and 99 of them were viewable in digital form through Whova. Twice daily during the conference, poster sessions were held simultaneously with a coffee break in the poster and exhibition hall, giving participants the chance to visit the exhibition booths, view posters and network with other attendees.

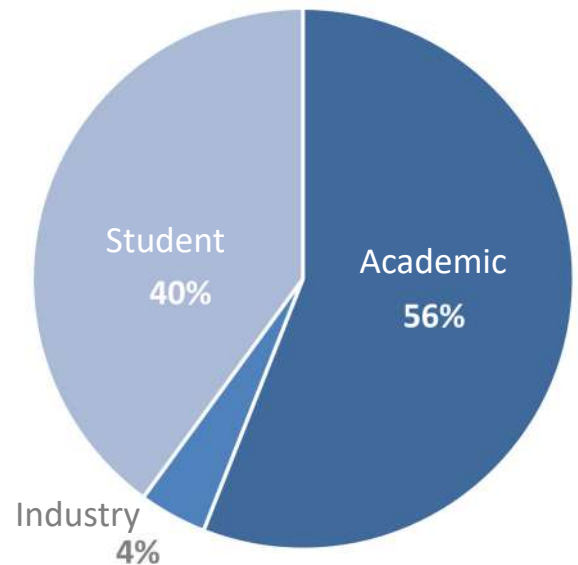
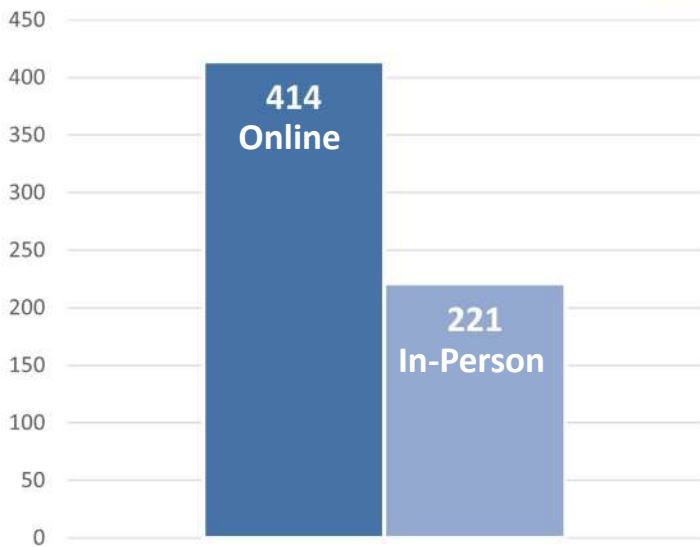
Four exhibitors were physically present during the event - Thermo Fisher Scientific, TESCAN, ZEISS, and HOT Microfluidics. These exhibitors also had virtual exhibition space on Whova, joining the online-only exhibitors IFP Energies Nouvelles, COMSOL and MDPI Computation. Each of the exhibitors was given the opportunity to present a 5-minute pitch prior to an invited lecture.

In addition to the scientific portion of the conference, social and networking events were held and included a Welcome Reception sponsored by Khalifa University, the Student Affairs Committee's Career Event, lab tours at the two Khalifa University campuses, a visit to the Sheikh Zayed Grand Mosque, and a gala dinner at Shangri-La Qaryat Al Beri Hotel, sponsored in part by the Abu Dhabi Ministry of Tourism. Furthermore, participants were issued a complimentary ticket to visit the Louvre Abu Dhabi at their leisure, courtesy of the Abu Dhabi Ministry of Tourism. Each participant was provided a complimentary backpack, generously provided by Khalifa University, branded with the InterPore2022 and Khalifa University logos.



CONFERENCE IN NUMBERS

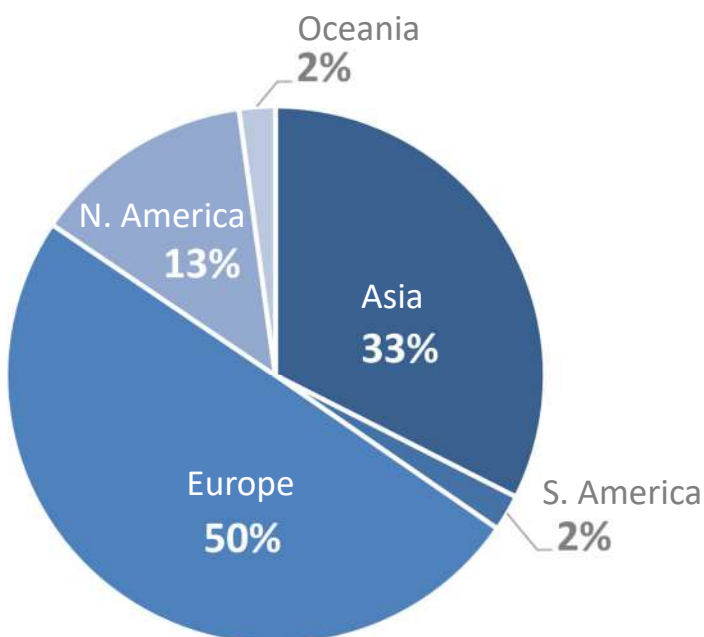
Participation



Total number of participants: 635

24 Minisymposia **329** Oral Presentations **133** Posters
69 Oral Sessions **8** Invited Speakers **4** Plenary Speakers
11 Sponsors **7** Exhibitors

Attendance by Region



Top 10 Countries in Attendance

1	China	90	6	France	43
2	UK	82	7	Netherlands	24
3	USA	71	7	Norway	24
4	Germany	64	9	Saudi Arabia	23
5	UAE	57	10	Switzerland	21

Total number of countries represented: 38

CONFERENCE HIGHLIGHTS

- InterPore2022 kicked-off with a welcome reception held at Khalifa University's Innovation Center. Guests were welcomed with speeches from **Dr. Arif Sultan Al Hammadi**, General Chair of InterPore 2022 Local Organizing Committee and Executive Vice President of *Khalifa University*, **Prof. Majid Hassanizadeh**, Managing Director of *InterPore*, and **Dr. Mohamed Sassi**, Local Organizing Committee Chair of InterPore 2022 and Professor & Acting Department Chair of Petroleum Engineering at *Khalifa University*.
- An award ceremony chaired by **Michel Quintard**, InterPore President, distributed awards from 2020 and 2021 which were previously unable to be distributed due to the pandemic. Recipients included:
 - ◊ **Jacques M. Huyghe** of *University of Limerick and Eindhoven University of Technology*. Professor Huyghe received the **2021 Kimberly-Clark Distinguished Lectureship Award** for his pioneering research at the interface between biomedical and petroleum engineering.
 - ◊ **Hamad Aslannejad**, *Utrecht University*, was presented with the **2020 PoreLab Award for Young Researchers**.
 - ◊ The **2021 InterPore Meritorious Service Medal** was presented to **Oleg Iliev** from *Fraunhofer Institute for Industrial Mathematics* for his numerous contributions to InterPore since its inception in 2008.
 - ◊ **InterPore Rosettes** were awarded to 2020 recipient **Nicolae Tomozeiu**, *Canon Production Printing*, and to 2022 recipients **Sridhar Ranganathan**, *Kimberly-Clark*; **Shuyu Sun**, *King Abdullah University of Science and Technology (KAUST)*; **Vahid Niasar**, *University of Manchester*; **Thomas Ramstad**, *Equinor*; **Mohaddeseh Mousavi Nezhad**, *University of Warwick*; and **Anne M. Hansen**, *Mexican Institute of Water Technology*.



- **Azita Ahmadi-Senichault**, *École Nationale Supérieure d'Arts et Métiers*, was awarded the **2022 InterPore Meritorious Service Medal** for her continued involvement in the establishment and development of InterPore.
- **Sujit Datta**, *Princeton University*, provided the plenary lecture on his topic **"Life in a Tight Spot: How Bacteria Swim, Disperse, and Grow in Porous Media."**
- **Vahid Niasar**, *University of Manchester*, presented his lecture, **"Advances in pore-scale characterisation of multiphase flow and transport in porous materials"** and **Stephan Matthai** from *The University of Melbourne* spoke on **"Modelling & Simulation of Multiphase Flow in Highly Heterogeneous Geologic Porous Media."**
- **Lab Tours** were given at both of the Khalifa University campuses. Participants could choose from a tour at the Sas Al Nakhli Campus containing the Research and Innovation Center on CO₂ and Hydrogen, Center for Membranes and Advanced Water Technology Research, as well as the Drilling Simulator Lab and Fluid Property Lab, among others, or the Main Campus which contains the Advanced Digital and Additive Manufacturing Center and KU Space Technology and Innovation Center.

CONFERENCE HIGHLIGHTS

- **Signe Kjelstrup** from *PoreLab Center of Excellence* was awarded the **2022 Honorary Lifetime Membership Award** for her extraordinary contributions in applying the methods of non-equilibrium thermodynamics to describe multiphase flow in porous media, with applications in fuel cell technology, transport of nano-sized medication particles in the bloodstream, and the minimization of heat loss of reindeer and seal noses in winter.
- The **2022 Kimberly-Clark Distinguished Lectureship Award** was presented to **Adrian Bejan** of *Duke University*. Member and non-member organizations can apply to host Adrian's lecture "Vascular materials: Predicting Design Evolution" in 2023.
- **Laura De Lorenzis** of *ETH Zurich* gave her plenary lecture "Phase-field modeling and simulation of desiccation-induced cracking."
- **Eduardo Abreu** (*University of Campinas [IMECC – UNICAMP]*), presented his lecture, "Lessons from flows through porous media for solving nonlinear hyperbolic problems" and **Adam Weber** (*Lawrence Berkeley National Laboratory*) spoke on "Transport and Multiphase Flow in Porous Media for Electrochemical Technologies."



- The **2022 InterPore Medal for Porous Media Research** was awarded to **Masa Prodanovic** (*The University of Texas, Austin*) for her outstanding research in the areas of modeling multiphase interfaces in porous and fractured media, multiscale characterization and modeling of microporosity in carbonates, salt and unconventional reservoirs, and modeling of transport of particulate suspensions and ferrofluids.
- **Sujit Datta** (*Princeton University*) was presented with the **2022 InterPore Award for Porous Media Research** for his groundbreaking contributions to understanding complex problems related to multiphase and multiscale dynamics in porous media.
- **Peng Xu** from *China Jiliang University*, presented his work on **Fractal Theory of Porous Media**.
- **Dominique Derome** from *Universite De Sherbrooke* lectured on "Hysteresis of mass transport in porous media" and **Zuleima Karpyn** from *Penn State University* presented "Experimental Investigation of Conditions Favoring Enhanced Gas Storage in Shales."
- The **Student Affairs Committee** hosted their annual **Career Development Event**. During the event, the four panelists, Masa Prodanovic (University of Texas at Austin), Vahid Niasar (University of Manchester), Patrick Jenny (ETH Zurich) and Sarah Gasda (NORCE), shared their professional journeys and gave young researchers the opportunity to learn more about varied career options.
- Participants visited the **Sheikh Zayed Grand Mosque**, one of the world's largest mosques, and enjoyed a **Gala Dinner** at the Shangri-La Qaryat Al Beri Hotel.

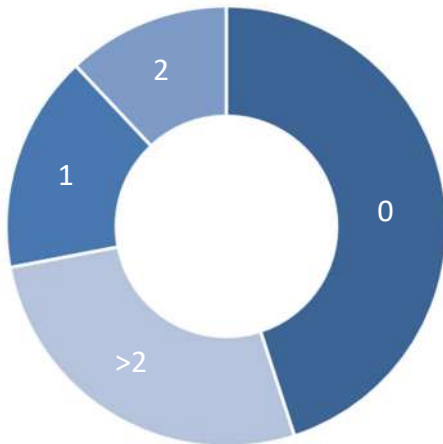
CONFERENCE HIGHLIGHTS

- **Evangelos Tsotsas** of *Otto von Guericke University* gave his lecture entitled “**Discrete models, continuum models and scale transitions for the drying of porous media**” while **Ruina Xu** of *Tsinghua University* discussed “**Supercritical CO₂ flow and heat/mass transfer in micro/nano-porous structures in CO₂ geological utilization and storage.**”
- **Senyou An** (*University of Manchester, Imperial College London*) was presented the **InterPore PoreLab Award for Young Researchers** for excellent research on advanced computational methods for the analysis and simulation of fluid flow and solute and heat transport in porous materials.
- **Rien van Genuchten Early-Career Award of Porous Media for a Green World** was awarded to **Siva Rama Satyam Bandaru** of *University of California Berkeley* in recognition of his research on the development and implementation of Electro Chemical Arsenic Remediation (ECAR); a low-cost robust technology for cleaning polluted groundwater.
- **2022 National Chapter Award** was presented to Linda Luquot (*CNRS-Géosciences*) on behalf of the **France National Chapter**.
- **Abraham Duncan Stroock** of *Cornell University*, presented his lecture “**The Pulse of Plants.**”
- **2022 MDPI Energies Student Poster Awards** were given to **Beibei Gao** from *University of Virginia* for her poster “**Retention of Chemotactic Bacteria in Dual-permeability Microfluidics with Residual NAPL**” and to **Kotone Sakemoto** of *Kyoto University* for the poster “**Dependence of hydraulic conductivity on effective confining pressure in rocksand concretes.**”
- **InterPore Rosettes** were presented to three members of the Local Organizing Committee - **Emad W. Al Shalabi**, **Muhammad Arif**, and **Mohamed Sassi** - for their dedication and leadership in the conference’s organization. A Rosette was also awarded to InterPore Program Committee Chair **Patrick Jenny** (*ETH Zurich*) for his role in the success of the scientific portions of InterPore conferences.

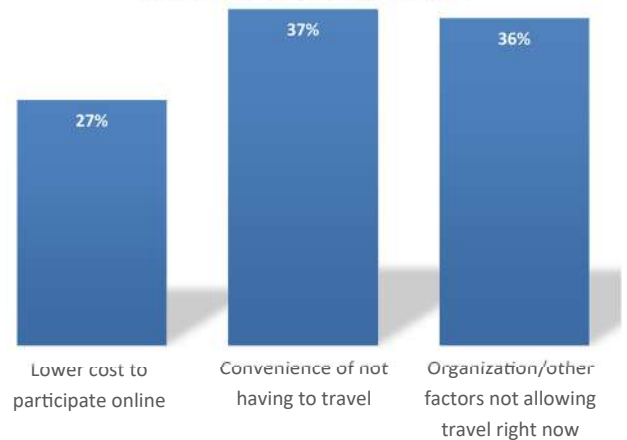


POST-CONFERENCE SURVEY*

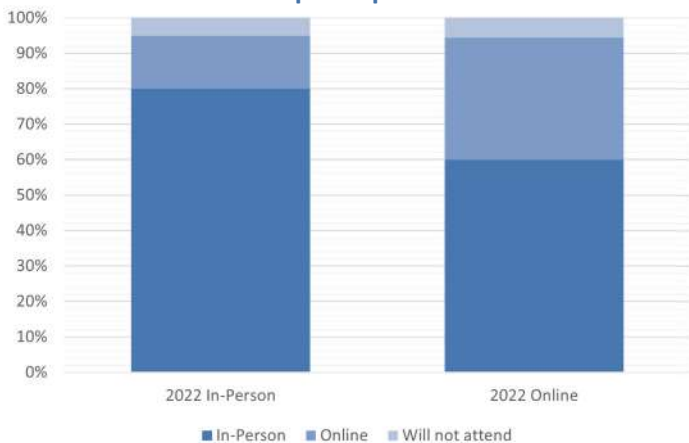
Number of previous InterPore conferences attended



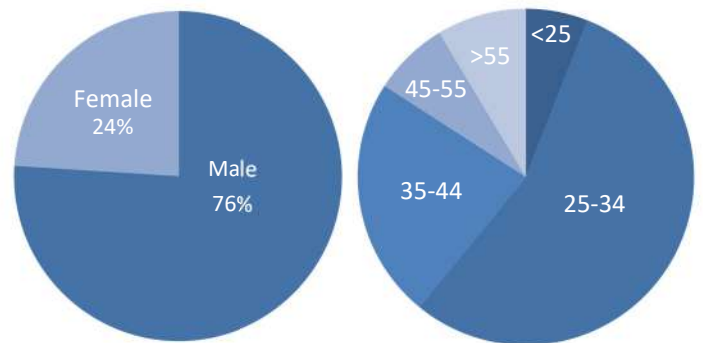
Why did attendee choose online participation, if applicable



Anticipated InterPore2023 participation



Demographics



73% 1st time participants heard via word-of-mouth

52% Feel conference fees are just right

93% Satisfaction with scientific program

89% Satisfaction with Whova

"The conference is well organized, I hope to have more opportunities to communicate with colleagues, Their research results have inspired me a lot."

"I really enjoyed this conference. Everything was planned really well. Good selection of invited speakers. Definitely coming to the next conference."

"I was seriously impressed about the conference. It is the number #1 platform for community building. We now see the formation of a new community around novel thermodynamically-based models for 2-phase flow, with contributors from Australia over Norway to the US."

"It's very easy to feel very disconnected when attending the conference remotely, but hard to compete with the lower price, easier logistics, and significantly reduced carbon footprint. I think running the conference hybrid, unfortunately, gets the worst of both worlds, rather than the best."

"A hybrid event has its own pros and cons, it is good to have pre-recorded presentation and recording of keynotes however there are some difficulties in terms of interaction between onsite and online attendees/chairs."

"I wish there could be some opportunities to enhance face-to-face interactions for people joining online. Many people don't have any visitors to their poster sessions."

*Survey responses collected from 24% of participants

SINCERE THANKS TO OUR CONFERENCE SPONSORS

PLATINUM



GOLD



SILVER



BRONZE



SUPPORTING PARTNER



NATIONAL CHAPTERS

- 17-18 March** **8th Annual Mexican Chapter Meeting**
 The thematic sessions were: (a) Artificial Porous Systems, (b) Soils and Aquifers, (c) Conventional Energy Systems, (d) Geothermal Systems, (e) Environmental Systems and (f) Other Applications.
- 28 April** **German National Chapter Lecture**
Marie E. Rognes, “Mathematical modelling of human brain transport: from medical images to biophysical simulation.”
- 3 June** **Hellenic InterPore National Chapter**
 The kick-off meeting and one-day conference was hosted by the 13th Panhellenic Scientific Symposium in Chemical Engineering 2022 at the University of Patras, Greece.
- 1-2 August** **5th InterPore Brazilian Chapter Meeting**
 The scientific program during the online meeting focused on advances in the research, methods, and theory of Porous Media systems (including pure and applied sciences, applied mathematics, computational science engineering, experimental and much more) and in close connection to the topics: – Green World. – Synchrotron light, Biosciences, Biorenewables, Nanotechnology. – Oil Science. – Smart Materials.
- 12-13 September** **6th InterPore UK Conference**
 The conference, held at Brunel University and online, focused on three topics on fundamental topics of porous media, porous media applications in energy and engineering, and porous media applications in health and environment.
- 18 September** **2nd Symposium of Israel National Chapter**
 The meeting, held at the Weizmann Institute of Science, was organized by student representatives of the Israel Chapter and featured lectures by students on an array of porous media-related research from various viewpoints.
- 14 October** **5th InterPore BeNeLux Chapter Meeting**
 Presentations during the meeting, held at Hasselt University, focused mainly on energy/hydrogen storage and transport.
- 26 October** **3rd Annual Spanish Chapter Workshop**
 The workshop, which took place at the Technical University of Madrid, had a diverse program with invited presentations on subsidence, random forests, the rheology of granular and active matter, modeling of bentonite and its expansion, methane hydrates and karst hydrology, as well as posters on convective mixing, induced seismicity, chaotic porous media flow, diffusiophoresis, compound separation by membranes, machine learning, bacterial growth, phase changes, osmosis, microporous membranes and membrane distillation.
- 27 October** Online Kick-off meeting of the **West Africa InterPore Chapter**
- 27-30 November** **Third Biennial Meeting of the Australian Chapter**
 The meeting took place in Perth and attracted around fifty researchers from Australian universities, research organizations and industry. The conference consisted of several talks on a variety of topics from digital rock to groundwater and mineral recovery.
- 1 December** **Norwegian Chapter 5th National Workshop on Porous Media**
 The scope of the workshop, held in Trondheim, was theoretical, computational and experimental poromechanics, porous media science and technology on topics related to recent technological advances in porous media research, microfluidics, thermo/fluid dynamics, poromechanics, and rheology–theory, modelling, and experiments.
- Australia National Chapter Webinar Series**
Ralf Haese, “Reactive-transport in porous rocks: Think big, act local”
Claudio Belle Piane, “Influence of organic matter type on porosity development in mudstones: insights from high resolution electron microscopy and neutron scattering”
Sam Xie, “Reservoir Rock and Fluids Interactions and Their Implications on Geo-Energy and Energy Storage”
Giovanni Michele Porta, “Transport in heterogeneous porous media: from modelling to upscaling”
Julie Pearce, “Cooper Basin gas shales after CO₂ storage or acid reactions: Metal mobilisation and methane accessible pore changes”
Samintha Perera, “Rock-Fluid Interaction happens during underground gas storage: CO₂ to hydrogen”

ACADEMY



New Director

Brian Berkowitz

Weizmann Institute of Science, *Israel*

New Webinar Committee

Sebastian Geiger (TU Delft, *The Netherlands*), Chair

Maartje Boon (TU Delft, *The Netherlands*), Vice-Chair

Julien Maes (Heriot-Watt University, *UK*), Vice-Chair

Eleonora Secchi (ETH Zurich, *Switzerland*)

Sorin Pop (Hasselt University, *Belgium*)

15 February

Porous Media Tea Time Talks

Haiyang Zhang, *Khalifa University (UAE)*, "Carbonate rock permeability upscaling from 3D tomographic images: A modified renormalization approach."

Ahmed Samir Rizk, *Khalifa University (UAE)*, "A machine learning perspective for estimating residual oil saturation from carbonate rock images."

1 March

Porous Media Tea Time Talks

Tinhinane Chekai, *Université de Pau et des Pays de l'Adour (France)*, "X-ray tomography for characterization of crystallization damage in layered artworks."

Weiyu Li, *Stanford University (USA)*, "Modeling of Lithium Dendrite growth in Lithium metal batteries."

8 March

Webinar Series C3

Politecnico di Milano organized a webinar on the topic, "Underground space: from resources to structures and infrastructures".

15 March

Porous Media Team Time Talks

Koondanibha Mitra *Radboud University (The Netherlands)*, "An exploration of hysteresis and dynamic effect in porous media flow."

Stephan B. Lunowa *Hasselt University (Belgium)*, "Contact angle dynamics in averaged models for two-phase flow at the pore scale."

29 March

Porous Media Team Time Talks

Victor Okumko, *University of Pau and Pays L'Adour (France)*, "Investigating crystallization-induced damage in porous media by application of quasi simultaneous neutron and x-ray tomography."

Kenza Bouznari, *Laval University (Canada)*, "Multi-phase numerical modeling of fugitive methane emissions in shallow aquifers."

3 May

Porous Media Team Time Talks

Arman Namaee-Ghasemi, *Sharif University of Technology (Iran)*, "Pore-Scale Simulation of the Interplay between Wettability, Capillary Number, and Salt Dispersion on the Efficiency of Oil Mobilization of Low-Salinity Waterflooding."

Ali Golaghaei Darzi & Aysa Hedayati-Azar, *Sharif University of Technology (Iran)*, "Development of a Semi-Analytical Model Considering the Effects of Pore Water Chemistry on Hydraulic Conductivity of Clay Porous Matrix."

17 May

Porous Media Team Time Talks

Edward Andrews, *Imperial College London (UK)*, "Identification of the leading role of pore structure in determining recovery during low salinity water flooding."

Ramin Moghadasi, *Uppsala University (Sweden)*, "Determining gas remobilization and critical saturation in geological CO₂ storage: from field-scale observations to pore-scale mechanisms."

- 29 May** **InterPore2022 Short Course**
Martin Blunt, *Imperial College (UK)*, “Multiphase Flow in Permeable Media: A Pore-Scale Perspective.”
- 3 June** **InterPore2022 Short Course**
S. Majid Hassanizadeh, *Utrecht University (The Netherlands)*, “Capillarity in Porous Media at Different Scales.”
- 14 June** **Porous Media Tea Time Talks**
Paiman Shafabakhsh, *UiO (Norway)*, “Neutron and X-ray imaging of reactive-mixing in porous rocks.”
Vincenzo Schimmenti, *Université Paris-Saclay (France)*, “Darcy’s law for yield stress fluids on the Bethe lattice.”
- 28 June** **Porous Media Tea Time Talks**
Simon Cazaurang, *Toulouse Fluid Mechanics Institute (France)*, “Uncovering hydraulic and thermal properties of Arctic lichen, moss and peat from permafrost dominated catchments: a numerical study.”
Omar Mokhtari, *Toulouse Fluid Mechanics Institute (France)*, “Flow of polymer solution through obstacle arrays.”
- 23 August** **Porous Media Tea Time Talks**
Christopher A. Browne, *Princeton University (USA)*, “Elastic turbulence generates anomalous flow resistance in porous media.”
Zaid Jangda, *Heriot-Watt University (UK)*, “3D Visualization Experiments for Underground Hydrogen (H₂) Storage at Reservoir Conditions. Outcomes and Lessons Learned.”
- 20 September** **Porous Media Tea Time Talks**
Hongxia Li, *Khalifa University (UAE)*, “On-Chip Imaging and Characterization of Multiphase Flow Empowered by Micro-3D Printing”
Pranay Shrestha, *University of Toronto (Canada)*, “Operando Tomographic Imaging of Porous Energy Materials.”
- 18 October** **Porous Media Tea Time Talks**
Joanna Schneider, *Princeton University (USA)*, “Going with the flow: colloidal dynamics at moving immiscible fluid interfaces.”
Kyle Pietrzyk, *Stanford University (USA)*, “Automated Symbolic Upscaling: multiscale modelling for realistic systems via Symbolic Computation.”
- November & December** **Short Course**
Rainer Helmig, *University of Stuttgart (Germany)*, “Porous Media Free Flow Coupling.”
- 15 November** **Porous Media Tea Time Talks**
Supriya Bhaskaran, *Otto von Guericke University (Germany)*, “Study of two-phase flow inside the anodic porous transport layer of PEM water electrolyzer based on Lattice Boltzmann model and microfluidic experiment.”
Omidreza Amrollahinasab, *Montanuniversität Leoben (Austria)*, “From digital rock physics to stochastic reservoir modelling.”
- 13 December** **Porous Media Tea Time Talks**
Sanchay Mukherjee, *Pennsylvania State University (USA)*, “Role of fluid-fluid interfacial area in hysteresis for CO₂ storage.”
Ashkan Irannezhad, *McMaster University (Canada)*, “Characteristics of fluid-fluid displacement in mixed-wet porous media.”

Access the full archive of Porous Media Tea Time Talks on the [PMTTT YouTube channel](#).

DIRECTORS

In September, Peter Elliker stepped down from the InterPore Foundation (and his role as vice-chair) after 5 years of continuous service. **Andrew Baker**, Technical Leader on the Kimberly-Clark Global Research and Development team, joined the board as the new vice-chair.



ACTIVITIES

- InterPore Foundation [Video Pitch](#) to introduce the Foundation mission
- Distributed Conference Grants for the 2022 InterPore Annual Meeting
- Honorary Lifetime Membership Award
- InterPore – PoreLab Award for Young Researchers
- InterPore Kimberly-Clark Distinguished Lectureship in Porous Media Science & Technology
- Rien van Genuchten Early-Career Award of Porous Media for a Green World
- InterPore Medal for Porous Media Research
- InterPore Award for Porous Media Research
- MDPI Energies Student Poster Award

[View the InterPore Foundation 2022 Annual Report](#)

COUNCIL

25 July 2022 Council Meeting

InterPore Activities

InterPore council members should maintain an overview of the following areas and society activities: International Science Council, Diversity, Equality and Inclusiveness, society finances, membership, Bylaws & amendments and the InterPore Foundation. Council members should maintain an observatory (not operational) role in the monitoring of these activities.

Amendments to Society Bylaws

Edits were made to current Bylaws and Amendment 1.

Proposed edits to Bylaw Article 6 b) to change the appointment of the Nomination Committee from six months to one year have been approved by the eight council members in attendance. Also approved was the motion to strike "Once all nominations are received, the Council selects two candidates from the list of nominees who will run for President-Elect and at least eight candidates for the vacancies in the Council" from Article 6 c).

The motion to edit Amendment 1, article 3 to "The DEI Committee Chair or a designated member is responsible for preparing an annual DEI report to the Council one month before the Annual Council Meeting, concerning: ..." was approved by all members in attendance.

AWARDS

InterPore Meritorious Service Award

Azita Ahmadi-Senichault, École Nationale Supérieure d'Arts et Métiers, Bordeaux, *France*

For her crucial role in shaping the InterPore Society since its establishment in 2008, active organization of the 3rd Annual InterPore Meeting in Bordeaux, France, and her continual role as InterPore Treasurer and Foundation Director since 2011.

Honorary Lifetime Membership Award

Signe Kjelstrup, PoreLab Center of Excellence, *Norway*

For her extraordinary contributions in applying the methods of non-equilibrium thermodynamics to describe multiphase flow in porous media, with applications in fuel cell technology, transport of nano-sized medication particles in the bloodstream, and the minimization of heat loss of reindeer and seal noses in winter.

Kimberly-Clark Distinguished Lectureship Award

Adrian Bejan, Duke University, *USA*

With his lecture series, "Vascular materials: Predicting Design Evolution" which can be hosted by member and non-member organizations in 2023.

InterPore Medal for Porous Media Research

Masa Prodanovic, The University of Texas, Austin, *USA*

For her outstanding research in the areas of modeling multiphase interfaces in porous and fractured media, multiscale characterization and modeling of microporosity in carbonates, salt and unconventional reservoirs, and modeling of transport of particulate suspensions and ferrofluids.

InterPore Award for Porous Media Research

Sujit S. Datta, Princeton University, *USA*

For his ground-breaking contributions to understanding complex problems related to multiphase and multiscale dynamics in porous media.

InterPore – PoreLab Award for Young Researchers

Senyou An, University of Manchester, Imperial College London, *UK*

For excellent research on advanced computational methods for the analysis and simulation of fluid flow and solute and heat transport in porous materials.

Rien van Genuchten Early-Career Award of Porous Media for a Green World

Siva Rama Satyam Bandaru, University of California Berkeley, *USA*

In recognition of his research on the development and implementation of Electro Chemical Arsenic Remediation (ECAR); a low-cost robust technology for cleaning polluted groundwater.

MDPI Energies Student Poster Award

Beibei Gao – University of Virginia, *USA*, "Retention of Chemotactic Bacteria in Dual-permeability Microfluidics with Residual NAPL"

Kotone Sakemoto – Hokkaido University, *Japan*, "Dependence of hydraulic conductivity on effective confining pressure in rocksand concretes."

AWARDS

InterPore Rosettes

Patrick Jenny – Institute of Fluid Dynamics, *Switzerland*

For excellent services provided as Chair of InterPore Program Committee; campaigning for institutional membership of ETH Zürich

Mohaddeseh Mousavi Nezhad – University of Warwick, *UK*

For highly valuable services provided as Chair of Student Awards and Grants Sub-Committee; for huge efforts with the selection of the MDPI Student Poster Awards for InterPore2022

Shuyu Sun – King Abdullah University of Science and Technology (KAUST), *Saudi Arabia*

For excellent services provided as President of the Saudi Arabia InterPore Chapter; campaigning for institutional membership of KAUST

Sridhar Ranganathan – Kimberly-Clark Corporation, *USA*

For highly valuable services as Co-Chair of InterPore Program Committee

Vahid J. Niasar – University of Manchester, *UK*

For highly valuable services as InterPore Council Chair, campaigning for institutional membership of University of Manchester

Thomas Ramstad – Equinor, *Norway*

For highly valuable services as Co-Chair of InterPore Industry Committee; campaigning for institutional membership of Equinor

Anne M. Hansen – Hydrology Division, Mexican Institute of Water Technology, *Mexico*

For excellent services provided as Chair of the Mexico InterPore Chapter

Muhammad Arif –Khalifa University, *UAE*

For highly valuable services as member of the Local Organizing Committee of InterPore2022; for huge efforts in the excellent organization of the conference

Emad Al Shalabi –Khalifa University, *UAE*

For highly valuable services as member of the Local Organizing Committee of InterPore2022; for huge efforts in the excellent organization of the conference

Mohamed Sassi –Khalifa University, *UAE*

For highly valuable services as member of the Local Organizing Committee of InterPore2022; for huge efforts in the excellent organization of the conference.

National Chapter Award

France National Chapter

OTHER SOCIETY ACTIVITIES

2022 ELECTIONS

InterPore Elections were held during the period from 01 – 30 November 2022. In accordance with the InterPore bylaws, an ad-hoc Nomination Committee was formed to coordinate the search for candidates. Members of the **Nomination Committee** were **Laura Pyrak-Nolte** (*Chair*), **Lauren Beckingham**, **Maartje Boon** and **Hongkyu Yoon**.

The **Election Committee**, appointed by the current InterPore leadership, consisted of **Gabriel Wittum** (*Chair*), **Iryna Zenyuk**, **Yixiang Gan** and **Marios Valavanides**. Survey and Ballot Systems maintained a SBS Secure File Portal for elections and the InterPore office conducted the technical implementation.

As stipulated in the InterPore Bylaws, a new President-Elect, four new Council members and four new members for the Student Affairs Committee were elected. The Election Committee reported the final election outcome to the Executive Committee and InterPore Society. The elected officials were:



President-Elect
Vahid Niasar
University of Manchester, UK

Council



Monica Riva



Marie Elisabeth Rognes



Peyman Mostaghimi



Dominik Obrist

Student Affairs Committee



Chiara Recalcati



**Carlos Felipe Silva
Escalante**



Mohammad Masoudi



Ramin Moghadasi

OTHER SOCIETY ACTIVITIES

COMMITTEES

Publication

The committee was re-organized in January and consists of the following members:



Nima Shokri, Chair
Hamburg University of Technology,
Germany



Sahar Bakhshian
The University of Texas at Austin,
USA



Ran Holtzman
Coventry University, *UK*



Helge Hellevang
University of Oslo, *Norway*



Philippe Cousot
Université Gustave Eiffel, *France*

Social Media Team

The responsibilities for the InterPore Society Facebook page are taken over by **Hamidreza Parsimehr**. **Elizabeth Barsotti** handles the society's Twitter account.

OTHER SOCIETY ACTIVITIES

COMMITTEES

Diversity, Equality and Inclusiveness (DEI)

A new DEI committee was formed to ensure that the InterPore community harnesses the talent and knowledge from the widest possible pool of talent for the benefit of the porous media science and engineering. The planned activities include promoting practices that make the InterPore environment such that every person feels valued, confident and excited to share their scientific achievements.

Inaugural Committee Members include:



Tiina Roose, Chair
University of Southampton, *UK*



Maartje Boon
TU Delft, *The Netherlands*



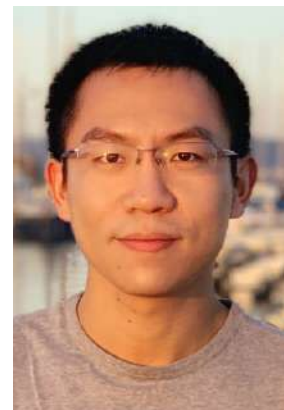
Rachida Bouhlila
National Engineering School of
Tunisia, *Tunisia*



Anna Herring
University of Tennessee, *USA*



Talita Rosas Ferreira
Brazilian Centre for Research in
Energy and Materials, *Brazil*



Yuhang Wang
Delft University of Technology, *The Netherlands*

OTHER SOCIETY ACTIVITIES

INTERNATIONAL SCIENCE COUNCIL

ISC Liason

Tannaz Pak was named the International Science Council Liaison for InterPore. As the liaison, Tannaz is actively pursuing opportunities for InterPore to become involved in the broader network of the international scientific community, building connections with ISC members who are working on topics related to porous media, and keeping the InterPore community apprised of ISC announcements and activities.



Tannaz Pak
Teeside University, UK

Science in Exile Declaration

InterPore endorsed the [Science in Exile Declaration](#) of the International Science Council. Through this, InterPore joined efforts to advocate for the protection and support of at-risk, displaced and refugee scientists.

PUBLIC STATEMENTS

Statement of Solidarity with Students and Scientists in Iran

We have all seen images of mass protests in Iranian streets and the heavy-handed crackdown by Iranian government. This has included the heavy repression of students and academics by the state at numerous Iranian universities. InterPore's Executive Committee expresses its shock and concern at the violation of universities' premises and beating and arrest of students. InterPore advocates full independence of academic institutions and stands in solidarity with the members of Iranian universities in their commitment to women's and human rights.

INTERPORE OFFICE STAFF

New Customer Relations Officer

Margaret Dieter joined the InterPore staff as the Customer Relations Officer. Among other duties, Margaret coordinates membership activities, National Chapters & the InterPore Academy.



ORGANIZATIONAL CHART

