



**InterPore**

**2023**

**Annual Report**

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## PRESIDENT'S LETTER

Dear InterPore Colleagues,

We are pleased to present the 2023 Annual report for the International Society for Porous Media.

The data, narratives, and photographs in the report provide a comprehensive picture of the organization, which I think is helpful for all to read, especially as most of us stay involved in specific events or groups, but may not be aware of the breadth of efforts and opportunities.

Selected items from the report that I find worth highlighting include the following:

- Not surprisingly, 2023 news was dominated by the Edinburgh conference: nearly 1000 total participants, 801 of which were in person, representing the first large in-person conference since Valencia in 2019.
- The 2023 conference also brought a few other firsts: a technical theme (Energy) and a DEI presentation open to all. A technical theme and DEI event will continue at least into 2025, as we gauge their usefulness and impact.
- Conference attendance showed mixed success: on the positive side, we had strong international participation from Europe, Asia, and North America and strong student participation; areas of improvement include broadening participation from other regions and from industry.
- National chapter activity continues to grow. The reporting emphasizes not only the number of active national chapters, but also the wide range of activities, which are often tailored to size and maturity of the chapters.
- A vibrant set of offerings by the InterPore Academy was capped by the 50<sup>th</sup> session of Tea-Time Talks in September.
- InterPore awards were made to some of the most impactful researchers in porous media.
- Page 19 notes rotations in a few of the most critical InterPore committees.
- Finally, the InterPore journal was officially launched, accepting research papers and other forms of publication starting in 2023, with an anticipated first issue in early 2024.

While the report does not present financials, I am pleased to report that the Society has come out of the pandemic years on strong financial footing. The Executive Committee, Council, and Finance Committee are working together to ensure that we invest in the staffing needed to operate effectively, maintain affordable conference and other fees, promote participation from members who have significant financial need, and that the Society can weather the unexpected, for instance global events that could force cancellation of an annual conference.

Sincerely,

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

Karsten Thompson  
InterPore President

## ANNUAL MEETING

InterPore2023 was the 15th annual meeting of the International Society for Porous Media and the society's return to a full in-person conference since the COVID-19 pandemic. The scientific portion of the conference was held over four days at the Edinburgh International Conference Center in Edinburgh, Scotland. A total of five short courses were also held prior to and post-conference.

A total of 994 participants from 42 countries attended the meeting. 801 of those participants attended in-person in Edinburgh with the remaining 193 joining online through Whova, the conference's online platform. In addition to live streaming all scientific portions of the event, the plenary and invited lectures were recorded and made available for any-time viewing on Whova.

Several first-time events were also held during the meeting: the DEI (Diversity, Equality, and Inclusiveness) Committee organized a DEI Lecture & Workshop which featured a plenary lecture and a lunch-time panel-led workshop and discussion. Also for the first time, a focus theme was identified for the conference - this year it was Energy Transition. In addition to the 268 Energy Transition-related presentations, the Energy Transition event included a plenary lecture and panel discussion.

Throughout the course of the conference, 434 oral presentations from 24 minisymposia were given during 85 parallel sessions. 263 posters were also presented during 6 sessions held simultaneously with a coffee break in the exhibition hall, giving participants the chance to visit the exhibition booths, view posters and network with other attendees. 175 online presentations were viewable in digital form through pdfs and/or recorded presentations in Whova.

Seven exhibitors were present during the event and each was given the opportunity to present a 5-minute pitch prior to an invited lecture.

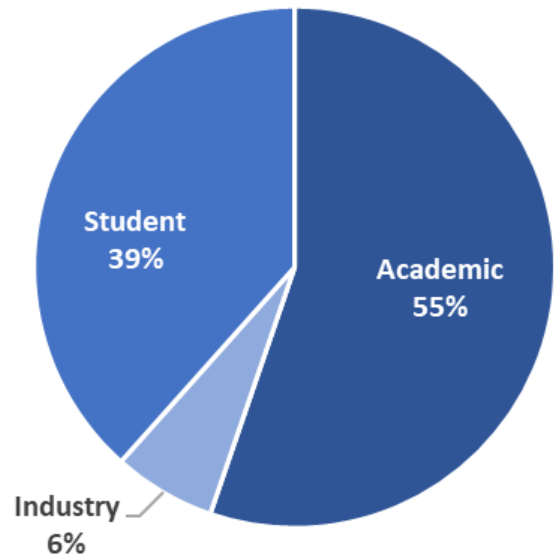
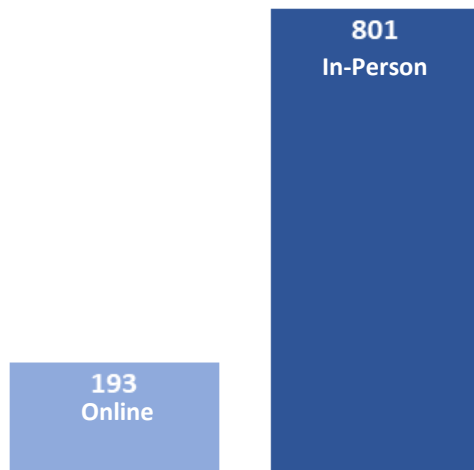
In addition to the scientific portion of the conference, social and networking events were held and included a Welcome Reception with a bagpiper on Monday evening, an optional tour of a local whisky distillery, and a walk to Holyrood Park and the ancient volcano, Arthur's Seat. The Student Affairs Committee organized the annual Career Event, a team building game night at a local pub and two workshops.

The overwhelming consensus from attendees was that it was great to return to full in-person events.



## CONFERENCE IN NUMBERS

### Participation



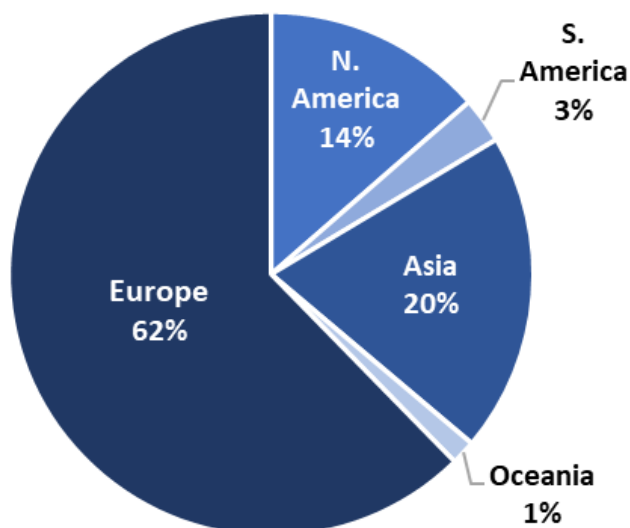
Total number of participants: 994

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<b>24</b> Minisymposia	<b>434</b> Oral Presentations	<b>263</b> Posters
<b>85</b> Oral Sessions	<b>8</b> Invited Speakers	<b>6</b> Plenary Speakers
<b>7</b> Sponsors	<b>175</b> Online Presentations	<b>7</b> Exhibitors

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### Attendance by Region



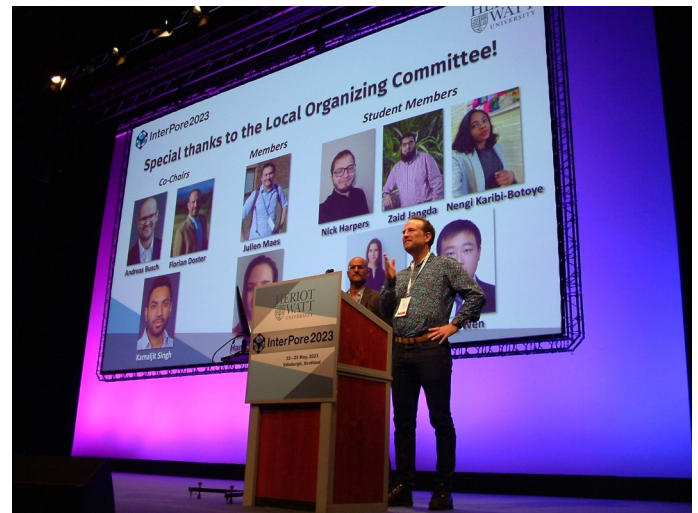
### Top 10 Countries in Attendance

<b>1</b>	UK	168	<b>6</b>	Netherlands	61
<b>2</b>	USA	107	<b>7</b>	Norway	43
<b>3</b>	Germany	104	<b>7</b>	Italy	35
<b>4</b>	China	98	<b>9</b>	Saudi Arabia	30
<b>5</b>	France	93	<b>10</b>	Brazil	27

Total number of countries represented: 42

## CONFERENCE HIGHLIGHTS

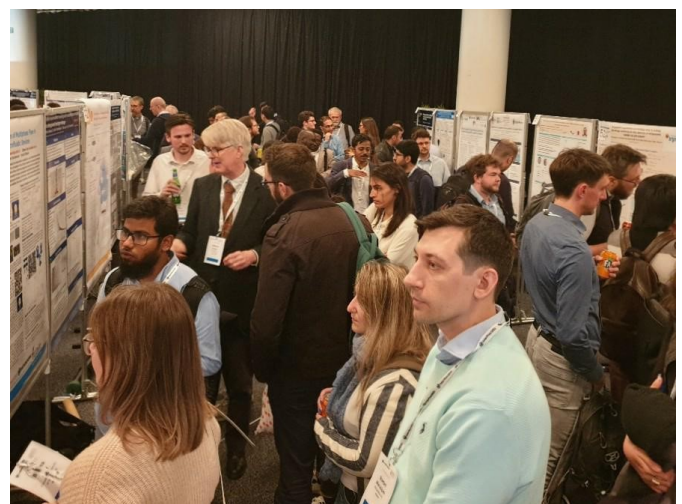
- InterPore2023 kicked-off with two satellite short-courses which were offered on Sunday: **Geochemical modeling in porous media**, with **Hang Deng** (Peking University, *China*) and **Sergi Molins** (Lawrence Berkely National Laboratory, *USA*); and **Modelling Porous Media with COMSOL Multiphysics**, with **Nancy Bannach** (COMSOL Multiphysics GmbH.) Also on Sunday, the Local Organizing Committee in Edinburgh organized a tour at **Holyrood Distillery** for interested participants.
- **Steffen Berg** (Shell Global Solutions International B.V., *The Netherlands*) was presented with the **2023 InterPore Meritorious Service Medal** in recognition of his exceptional, prolonged, impactful, and meaningful services to the Society including his role in the creation of the first National Chapter in 2012 and the development and leadership of the InterPore Foundation on which he has served as Chair since its inception in 2017.
- **Nathalie Tufenkji** (McGill University, *Canada*) gave her plenary lecture entitled: **“Porous Graphene Oxide Macrostructures for Water Treatment Applications.”**



- **Adriana Paluszny** (Imperial College London, *UK*) gave a plenary lecture **“Watson Forum: A career in (porous media) modeling”** as part of the first InterPore **Diversity, Equality & Inclusiveness Event**. During a lunch-time workshop, Tiina Roose (University of Southampton, *UK*) led a discussion with panelists **Adriana Paluszny** (Imperial College London, *UK*); **Sebastian Geiger** (Delft University of Technology, *The Netherlands*); **Kamaljit Singh** (Heriot-Watt University, *UK*); **Anna Herring** (University of Tennessee Knoxville, *USA*); and **Raffaella Ocone** (Heriot-Watt University, *UK*).
- **Shervin Bagheri** (KTH, *Sweden*) presented his lecture, **“Stability and functionality of immobilised liquid-liquid interfaces in periodic structured media”** and **Raffaella Ocone** (Heriot-Watt University, *UK*) presented **“The Rheology of Granular Media: from Engineering to Geological Applications”** as part of the invited lecture series.
- The exhibition hall opened with brief remarks from co-chairs of the Local Organizing Committee, **Florian Doster** (Heriot-Watt University, *UK*) and **Andreas Busch** (Heriot-Watt University, *UK*); a bagpiper and Scottish flare during the **Welcome Reception**.

## CONFERENCE HIGHLIGHTS

- **Dorthe Wildenschild** (Oregon State University, *USA*) was awarded the **2023 Honorary Lifetime Membership Award** for her extraordinary contributions to porous media science in her pioneering research using high-resolution imaging to measure and interpret transport, reactive and biological processes in porous media.
- **Ruben Juanes** (MIT, *USA*), world-renowned expert in the field of multiphase flow in porous media, was named the **2024 Kimberly-Clark Distinguished Lecturer**. Member and non-member organizations can apply to host Ruben's lecture in 2024.
- **Eugene Vorobiev** (Compiègne University of Technology, *France*) gave his plenary lecture “**Electroporation of cellular membranes for the enhancement of mass transfer in biological media: mechanism and technological applications.**”
- The **Student Affairs Committee** hosted their annual **Career Development Event**. During the event, the four panelists, **Majid Hassanizadeh** (University of Utrecht, *The Netherlands*), **Hannah Menke** (Heriot-Watt University, *UK*), **Rebecca Liyanage** (Pexapark, *Switzerland*) and **Bamshad Nazarian** (Equinor, *Norway*), shared their professional journeys and gave young researchers the opportunity to learn more about varied career options.



- **Bruce Balcom** (University of New Brunswick, *Canada*) and **Gerard Vignoles** (University of Bordeaux, *France*) presented their respective lectures, “**Magnetic Resonance Measurements of Fluids in Shale**” and “**How the Chemical Vapor Infiltration process can be optimized for the production of advanced composite and porous ceramics**” during the invited lecture series.
- Students and young researchers met at a local pub for a fun **night of networking and games**, organized by the **Student Affairs Committee** and the student members of the **Local Organizing Committee**.

## CONFERENCE HIGHLIGHTS

- The **2023 InterPore Medal for Porous Media Research** was awarded to **Philippe Coussot** (University Gustave Eiffel, *France*) for his outstanding contributions to the physics of transport in porous media in several fields as drying and imbibition, non-newtonian fluid flow, colloidal transport, transfer in wood and the use of NMR for imaging.
- **Pejman Tahmasebi** (Colorado School of Mines, *USA*) was presented with the **2023 InterPore Award for Porous Media Research** for his outstanding and pioneering contributions to the porous media research, particularly the modeling of large-scale subsurface systems, and for his selfless dedication to the porous media community.
- **Adrian Bejan** (Duke University, *USA*) presented his plenary lecture, “**Vascular Design: Freedom, Evolution, Hierarchy.**”



- Coordinated by the **Student Affairs Committee**, two workshops were presented: **J. Jaime Gómez-Hernández** (Universitat Politècnica de València, *Spain*) “**What makes a good research paper? 10 tips for success**” and “**BetterPoster: How to create a better research poster in less time**” with **Mike Morrison** (Michigan State University, *USA*.)
- During the invited lecture series, **Behnam Jafarpour** (University of Southern California, *USA*) presented his lecture “**Deep Learning for Parameterization and Calibration of Subsurface Flow Models**” and **Lidietta Giorno** (Institute on Membrane Technology, *Italy*) presented her lecture “**Porous biohybrid multifunctional membranes for biosensors and bioremediation.**”
- Several hundred participants joined the Local Organizing Committee for a **walk to Arthur's Seat**, an ancient volcano which is the main peak of the group of hills in Edinburgh.



## CONFERENCE HIGHLIGHTS

- Rouhi Farajzadeh** (Delft University of Technology, *The Netherlands*) presented his lecture, “**Thermodynamic efficiency/limit of subsurface energy production/storage systems**” and **Adriana Paluszny** (Imperial College London, *UK*) presented her lecture, “**Finite element modelling of the growth and flow properties of multiple-scale three-dimensional fracture networks**” during the invited lecture series.
- As part of the **Energy Transition focus theme** for the conference, a plenary lecture “**Energy transition and porous media; an industrial megaproject perspective**” was given by **Onno van Kessel** (Shell Global Solutions International, *The Netherlands*.) Following the lecture, four additional panelists joined Mr. van Kessel during the **Energy Transition Forum** led by **Ann Mugeridge** (Imperial College London, *UK*.) The panel, which also included **Aimy Bazylak** (University of Toronto, *Canada*), **Michelle Bentham** (British Geological Survey, *UK*), **Martin Blunt** (Imperial College, *UK*) and **Lynn Orr** (Stanford University, *USA*) engaged in a discussion regarding the **current urgent research needs in various energy transition technologies and methodologies**. The findings will be published in a **white paper** in the first edition of the InterPore Journal.



- Carlos Santamarina** (Georgia Institute of Technology, *USA*) gave the plenary lecture “**Multi-Physics Repetitive Loads.**”
- 63 posters were entered into and evaluated for the MDPI Energies Student Poster Award. The posters were judged on their scientific content and novelty, the presentation and appearance of the poster, the impact of the research and their performance in the poster session. The recipients of the **InterPore2023 MDPI Student Poster Award** were **Milad Naderloo** (TU-Delft, *The Netherlands*) for his poster on “**Experimental study on effect of cyclic loading on deformation and AE characteristics of sandstone: Relevant for energy storage**” and **Philip J. Salter** (University of Strathclyde, *UK*) for his poster on “**Exploiting induced carbonate precipitation to improve reservoir storage integrity and geothermal system efficiency.**”

## CONFERENCE HIGHLIGHTS

- **Pranay Shrestha** (University of Toronto, *Canada*) was awarded the **2023 InterPore – PoreLab Award for Young Researchers** in recognition of outstanding contributions to clean energy technologies.
- The **2023 Rien van Genuchten Early-Career Award of Porous Media for a Green World** was awarded to **Junjie Zhong** (China University of Petroleum - East China, *China*) in recognition of his ground-breaking contribution to microfluidics in bringing a window into the fluid phase and transport behaviors down to the sub-10 nm scale.
- Sorin Pop, on behalf of the Benelux Chapter, and Sarah Gasda, on behalf of the Norway Chapter, accepted the **2023 National Chapter Awards**.



- **InterPore Rosettes** were bestowed upon:
  - ◇ **Afshin Goharzadeh** (Khalifa University, UAE) for his work with the InterPore Foundation and as part of the Local Organizing Committee at InterPore2022;
  - ◇ **Serveh Kamrava** (Colorado School of Mines, USA) for her work and dedication as the chair of the Social Media Task Force;
  - ◇ **Martin Blunt** (Imperial College London, UK) for his long time support of the InterPore Society and Annual Conferences;
  - ◇ **Mike Celia** (Princeton University, USA) for his role in the founding of the InterPore Society and his enduring service in many InterPore committees;
  - ◇ **Ezequiel Médiçi** (Michigan Technological University, USA) for the proposal and completion of the Album of Porous Media;
  - ◇ **Alejandro Otero** (Universidad de Buenos Aires & CONICET, Argentina) for his role as the co-editor of the Album of Porous Media;
  - ◇ **Andreas Busch** (Heriot-Watt University, UK) for his service as co-chair of the InterPore2023 Local Organizing Committee;
  - ◇ **Kamaljit Singh** (Heriot-Watt University, UK) for his service as co-chair of the InterPore2023 Local Organizing Committee and involvement in the founding and organization of the InterPore Young Academy and Porous Media Tea Time Talks.
- During the closing ceremony, **Karsten Thompson** (Louisiana State University, USA) was named **InterPore President** and **Vahid Niasar** (University of Manchester, UK) **InterPore President-Elect**. **Michel Quintard** (IMFT, France) became **InterPore Past-President**.

SINCERE THANKS TO OUR CONFERENCE SPONSORS

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PLATINUM



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SILVER



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BRONZE



## NATIONAL CHAPTERS

- 2-3 March**      **9th Annual Mexican Chapter Meeting (RACMI-2023)**  
Hybrid meeting held in the city of Queretaro. About 40 researchers and academics from throughout the nation attended. During the meeting, in-person attendees and remote participants gave lectures on a vast array of porous media-related research from various viewpoints.
- 29 June**      **3rd Symposium of the Israel National Chapter**  
The 3rd annual conference of the Israel InterPore Chapter was held at the Grand Water Research Institute (GWRI) within the Faculty of Civil and Environmental Engineering at the Technion- Israel Institute of Technology. More than forty researchers and students from Israel attended, presenting a broad array of porous media-related research that ranged from membranes and gels to soil and rock. The conference also featured an engaging poster session showcasing innovative research in the field.
- 6-7 July**      **Annual China National Chapter Meeting**  
The 6th International Conference on Digital Core Analysis & 2023 Annual Conference of the China InterPore Chapter was held in the China University of Petroleum (East China). The conference was hosted by Research Center of Multi-phase Flow in Porous Media, co-organized by the China InterPore Chapter. This conference is a catalyst for groundbreaking research, transformative ideas, and collaborative endeavors. A total of approximately 150 researchers and academics from 7 countries attended, of which 27 experts and scholars gave lectures on a vast array of porous media related research.
- 7-9 August**      **Brazil National Chapter Meeting**  
The 6th Brazil Interpore Chapter Conference on Porous Media took place at the Sirius laboratory, in Campinas – SP – Brazil. There were 104 participants, with representatives from all Brazilian regions (North, Northwest, South, and Southwest), as well as eighteen from outside Brazil. The conference attracted many students, post-docs and young researchers and foster interaction with senior researchers and professors from academia and industry. The conference brought 12 plenary speakers, 18 oral presentation and 23 posters covering a variety of porous media areas: synchrotron; theory, modeling, numerical methods; energy and industrial application; green world; biotechnology; oil science and microfluidic and smart materials.
- 17-20 August**      **China National Chapter**  
The 17th National Conference on Fluid Dynamics in Porous Media was successfully held in Beijing Sinopec Conference Center and was co-organized by the InterPore China National Chapter. InterPore China chapter honorary chair Jun Yao), chair Moran Wang, general secretary Yongfei Yang and general secretary Ke Xu served as the conference’s vice chairs. More than 500 scholars participated at the conference.
- 13-14 September**      **German National Chapter Meeting**  
The annual meeting of the German Chapter was held at KU Eichstätt-Ingolstadt. The meeting was organized at the Mathematical Institute for Machine Learning and Data Science (MIDS) by the chair of Geomatics and Geomathematics, and included two invited talks and a total of 20 presentations on a wide range of research areas in the field of porous media. Around 30 researchers, PhD students, and professors participated in the two-day meeting.
- 14 October**      **Japan National Chapter Kick-off Meeting**  
The Kick-Off Meeting of the Japan InterPore Chapter was held at Kobe city, concurrently with the National Thermal Engineering Conference 2023. Prof. Michel Quintard was invited to deliver a lecture entitled “Heat transfer in porous media with heterogeneous and homogeneous sources: An overview of model typology” to 30 members of the newly established chapter.
- 17-19 October**      **French National Chapter Meeting**  
The 16th France InterPore Chapter Conference (JEMP: Journées d’Etudes des Milieux Poreux) was held at IFP Energies Nouvelles in Rueil-Malmaison. This year was the 30th anniversary of this biennial conference. The JEMP are a major event bringing together a wide academic and industrial community from France (and beyond) working on porous media and represent an excellent opportunity for very rich exchanges on recent research in the field. This year, 137 researchers from more than 30 research institutions, universities and industries participated in the conference. Over the three days of the conference, there were 6 plenary

## NATIONAL CHAPTERS

- 27-28 October**      **1st Annual West Africa Chapter Meeting**  
The first annual meeting and symposium of the West Africa InterPore Chapter (WAIC) was held in virtual format with the participation of over 20 researchers from academia. For this first edition of its annual meeting & symposium with the Special Topic: Mining activities in Africa, mining waste management, WAIC invited researchers and industry professionals from different fields of porous media to submit abstracts specially to address the pressing challenges associated with mining activities in Africa, particularly the critical issue of mining waste management. Ten abstracts were received: two from Germany, one from Sénégal, one from Niger, one from Nigeria, and five from Burkina Faso.
- 9 November**      **Norway National Chapter Meeting**  
The 6th meeting of the Norway InterPore Chapter was held in Oslo. The meeting was organized by Marcel Moura and Janne Hoff and was hosted by PoreLab and the University of Oslo at the Oslo Science Park conference center. About 45 participants attended the workshop with a good balance between university, industry, and research institutes. The workshop counted 10 presentations by invited speakers, of which 6 were from universities and 4 from industry / research institutes.
- 20 November**      **4th Annual Workshop of Spanish National Chapter**  
The fourth annual meeting and porous media workshop of the Spanish InterPore Chapter was held at DFactory in Barcelona. It was organized by Amphos 21 and the steering committee of the Spanish Chapter. There was a total number of 52 participants from academia and industry, of which 10 participated remotely. All the talks and posters were presented in person. The workshop provided a forum for knowledge exchange and creating new links between researchers in different porous media disciplines from academia and industry. The general assembly with a report on the state of the chapter and discussion was held in the afternoon.
- 27-28 November**      **Saudi Arabia National Chapter Meeting**  
The 2nd Interpore Saudi Chapter Annual Meeting was held online. During the Annual Meeting, three keynote speeches and 22 presentations from eight different countries (Netherlands, Germany, Canada, Norway, Lebanon, China, Singapore, and Saudi Arabia) were delivered. The meeting was attended by more than 35 participants, and it covered topics related to pore-scale modeling and algorithms for porous media flow, reservoir geomechanics, uncertainty in reservoir modeling, and numerical insights in modeling multi-phase flow phenomena in porous media.
- Australia National Chapter Webinar Series**  
**Qinhong Hu**, “ Nano-Petrophysical Studies for Energy and Resources Geosciences” (30 January)  
**Bahman Tohidi**, “How Am I Fighting My Glioblastoma Brain Cancer?” (11 May)  
**Yu-Shu Wu**, “Physical Processes and Modeling Studies of CO<sub>2</sub> Storage in Subsurface Formations” (7 June)

## ACADEMY

- 10 January** **Webinar**  
**Maša Prodanović**, *University of Texas at Austin (USA)*, "Flow and transport coefficients in porous media: from direct simulation to automated prediction."
- 17 January** **Porous Media Tea Time Talks**  
**Michael Chen**, *University of Minnesota, Minneapolis (USA)*, "Inertial and convective flows during mineral dissolution"  
**Michał Dzikowski**, *University of Warsaw, Warsaw (Poland)*, "Large scale numerical study of wormhole formation in limestone core samples"
- 14 February** **Porous Media Tea Time Talks**  
**Florian Osselin**, *ISTO Université d'Orléans (France)*, "Hydrogen: Orange is the new Green"  
**Damien Freitas**, *University of Edinburgh (Scotland, UK)*, "The Norse arsenal: Game changing devices for in situ 4D  $\mu$ CT experiments with porous systems"
- 14 March** **Porous Media Tea Time Talks**  
**Mohammadjavad Shokriafra**, *The University of Manchester (UK)*, "Impact of porous microstructure on performance of redox flow batteries: a modeling study"  
**André Matias**, *University of Lisbon (Portugal)*, "Swelling, erosion, and dissolution in porous media: How to make the perfect coffee?"
- 11 April** **Porous Media Tea Time Talks**  
**Flore Rembert**, *University of Orleans (France)*, "Geoelectrical monitoring of calcite dissolution on microfluidic chips"  
**Patrick Duddek**, *ETH Zürich (Switzerland)*, "The role of root hairs on root water uptake - Insights from an image-based 3d model"
- 25 April** **Webinar**  
**Karin de Borst**, *Shell Global Solutions International B.V. (The Netherlands)*, "Underground H<sub>2</sub> storage – enabling a H<sub>2</sub> economy at scale."
- June & July** **Short Course**  
**Holger Steeb**, *University of Stuttgart (Germany)*, "Linear Poro-Elasticity – From Quasi-Static Consolidation to Acoustic Waves."
- 13 June** **Porous Media Tea Time Talks**  
**Daphne Pino**, *Brazilian Synchrotron Light Laboratory (Brazil)*, "Cleaning up contaminated soils: Investigation of pore-scale processes with synchrotron x-ray microtomography"  
**Aluizio Salvador**, *São Paulo University, (Brazil)*, "Microfluidic device (rock on a chip) compatible with synchrotron techniques for in-situ monitoring of CO<sub>2</sub> storage"
- 23 September** **Porous Media Tea Time Talks**  
**Zoe Kanavas**, *University of California Davis (USA)*, "Flow phenomena under pore-scale spatial heterogeneity in geologic media"  
**Hongfan Cao**, *University of Minnesota (USA)*, "Density effects on the emergence of unstable focused flow in fractured systems"
- 26 September** **Porous Media Tea Time Talks - 50th Session**  
**Hang Deng**, *Peking University (China)*, "Modeling reactive transport processes in porous media"  
**Amir Pahlavan**, *Yale University (USA)*, "Steering colloids across complex flow landscapes"

## ACADEMY

- 10 October** **Inga Berre**, *University of Bergen (Norway)*, “Modeling of flow and deformation in fractured formations.”
- 14 November** **Porous Media Tea Time Talks**  
**Ana Barcot**, Luleå University of Technology (Sweden), “Fluid flow analysis within sponge-like porous bodies”  
**Iman Vaezi**, Spanish National Research Council (Spain), “Process understanding of induced seismicity during stimulation of enhanced geothermal systems”
- November & December** **Study Plan in Porous Media (SP-PM)**  
**PORE 1-1 Fundamentals of porous media structure and characterization**  
**Ryan Armstrong** (*UNSW Sydney, Australia*); **Martin J. Blunt** (*Imperial College, UK*); **Maša Prodanović** (*University of Texas Austin, USA*); and **Catherine Spurin** (*Stanford University, USA*) explore the imaging of porous media and image processing, quantification of pore-scale images, single phase transport, and multi-phase flow.

## FOUNDATION

### ACTIVITIES

- Handling Conference (travel) Grants for the 2023 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 2023 Annual Report](#)

## COUNCIL



Following the results of the 2022 InterPore election, Vahid Niasar was named President-Elect and therefore vacated his seat on the InterPore Council. **Moran Wang** from Tsinghua University, China, runner-up in the elections, joined the other newly elected Council members as they began their term on 01 May.

### 24 May Council Meeting

**Peyman Mostaghimi**, *The University of New South Wales (Australia)*, assumes the role of Council Chair for the next term.

The Council focuses on two main objectives: (i) defining priorities for resource investment and (ii) strengthening the organizational structure and processes. During this meeting, Majid Hassanizadeh and Azita Ahmadi-Senichault were re-elected for another term to continue in their positions.

## EXECUTIVE COMMITTEE

At the conclusion of the InterPore2023 meeting, **Karsten Thompson**, *Louisiana State University (USA)*, is officially named InterPore President. **Michel Quintard**, *CNRS, Institut de Mécanique des Fluides de Toulouse (France)*, becomes Past-President and **Vahid Niasar**, *University of Manchester (UK)*, moves into his elected position of President-Elect.



## AWARDS

### **InterPore Meritorious Service Award**

**Steffen Berg**, Shell Global Solutions International B.V, *The Netherlands*

For his major role in making Shell an institutional member and longtime sponsor of InterPore, for his role as the Steering Committee Chair in the creation of the first National Chapter in 2012 and serving as its chair for several years, for his dedication and service as a co-founder and the Chair of the InterPore Foundation in 2017.

### **Honorary Lifetime Membership Award**

**Dorthe Wildenschild**, Oregon State University, *USA*

In recognition for her pioneering research in using high-resolution imaging to measure and interpret transport, reactive and biological processes in porous media and her inspiring teaching and dedicated service.

### **Kimberly-Clark Distinguished Lectureship Award**

**Ruben Juanes**, Massachusetts Institute of Technology, *USA*

A world-renowned expert in the field of multiphase flow in porous media, Ruben's contributions provide fundamental understanding of natural phenomena and have the potential to radically advance the deployment of energy systems, which depend critically on multiphase flow processes. His lecture series can be hosted by member and non-member organizations in 2024.

### **InterPore Medal for Porous Media Research**

**Philippe Coussot**, Laboratoire Navier (Univ. Gustave Eiffel-ENPC-CNRS), *France*

For his outstanding contributions to the physics of transport in porous media in several fields as drying and imbibition, non-newtonian fluid flow, colloidal transport, transfer in wood and the use of NMR for imaging.

### **InterPore Award for Porous Media Research**

**Pejman Tahmasebi**, Colorado School of Mines, *USA*

For his outstanding and pioneering contributions to the porous media research, particularly the modeling of large-scale subsurface systems, and for his selfless dedication to the porous media community.

### **InterPore – PoreLab Award for Young Researchers**

**Pranay Shrestha**, University of Toronto, *Canada*

In recognition of outstanding contributions to clean energy technologies.

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

**Junjie Zhong**, China University of Petroleum (East China), *China*

In recognition of his ground-breaking contribution to microfluidics in bringing a window into the fluid phase and transport behaviors down to the sub-10 nm scale.

### **MDPI Energies Student Poster Award**

**Milad Naderloo**, TU-Delft, *The Netherlands*, for the poster "Effect of stress cycling on the deformation characteristics of reservoir rock from the perspective of energy storage."

**Philip J. Salter**, University of Strathclyde, *UK*, for the poster "Exploiting induced carbonate precipitation to improve reservoir storage integrity and geothermal system efficiency."

## AWARDS

### InterPore Rosettes

**Afshin Goharzadeh**, Khalifa University, *UAE*

For his role as an active member of the Local Organizing Committee InterPore2022; as a member of the Board of Directors and Fundraising Officer for InterPore Foundation and for his support of InterPore within Khalifa University.

**Serveh Kamrava**, Colorado School of Mines, *USA*

For her valuable services as Chair of the InterPore Social Media Task Force, dedicated to distributing important information via the InterPore social media channels including LinkedIn, Facebook, Twitter and Instagram, and as a member of the Communication Committee.

**Martin Blunt**, Imperial College London, *UK*

For his long time support of InterPore, the short courses he's given during InterPore annual meetings, as co-organizer of many minisymposia, and as a member of the Energy Transition Forum during InterPore2023.

**Mike Celia**, Princeton University, *USA*

For his role as a founding member of InterPore, as a member of the InterPore Financial Committee and long-time membership in the InterPore Honors and Awards Committee.

**Ezequiel Médici**, Michigan Technological University, *USA*

For the proposal and pursuit of the idea of compiling an Album of Porous Media, and his direction and work over the previous five years which has led to its successful completion.

**Alejandro Otero**, Universidad de Buenos Aires & CONICET, *Argentina*

For his work as Co-editor of the Album of Porous Media, meticulously translating all entries into Spanish.

**Andreas Busch**, Heriot-Watt University, *Scotland, UK*

For his role as Co-Chair of the Local Organizing Committee InterPore2023.

**Kamaljit Singh**, Heriot-Watt University, *Scotland, UK*

For valuable services as Co-Chair of the Local Organizing Committee InterPore2023, as a founding member of the InterPore Young Academy & co-organizer of Porous Media Tea Time Talks, and co-organizer of conference minisymposia.

### National Chapter Award

**Benelux Chapter**

**Norway National Chapter**

## OTHER SOCIETY ACTIVITIES

### COMMITTEES

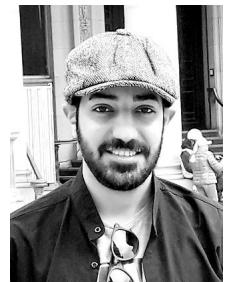
#### Industry

**William Da Silva**, *Equinor (Brazil)*, was appointed the replacement of Thomas Ramstad as the Co-Chair of the Industry Committee.



#### Social Media Task Force

**Hamid Moghimi**, *University of Warwick (UK)*, was named the new Facebook Account Manager.



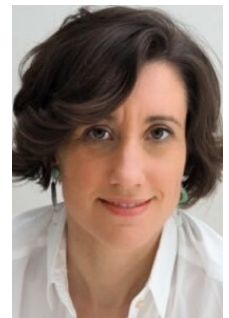
#### National Chapters

**Eduardo Cardoso de Abreu**, *UNICAMP (Brazil)*, has taken over duties as chair of the National Chapter Committee from previous chair Didier Lasseux.



#### Program Committee

**Jaime Gómez-Hernández**, *Technical University of Valencia (Spain)*, and **Eleonora Secchi**, *ETH Zurich, Switzerland* accepted appointments as Chair and Co-Chair of the Program Committee for the upcoming meetings, starting with InterPore2025.



#### Honors & Awards Committee

**Dorthe Wildenschild**, *Oregon State University (USA)*, is named Vice-Chair of the Honors & Awards Committee. **Anna Scotti**, *Politecnico di Milano (Italy)*, joined the committee.



## OTHER SOCIETY ACTIVITIES

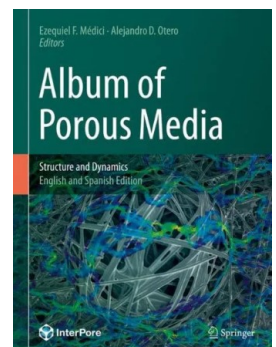
### INTERPORE JOURNAL

In July, InterPore launched its own scientific journal, named “InterPore Journal.” The journal’s goal is to become the main destination for publishing high-quality research on a wide range of multidisciplinary multiscale topics related to porous media science and technology. The Journal will be an international, peer-reviewed, open-access journal, entirely published and owned by InterPore. Planned are a wide range of articles, which include but are not limited to the following: Original Research Papers, Technical Notes, Review Articles, Open Datasets and Source Codes, Letters to the Editor, Commentaries, Short Communications, and Opinion pieces.

**Nima Shokri**, *Hamburg University of Technology (Germany)*, will serve as Editor-in-Chief. Board of Editors is composed of: **Ryan T. Armstrong**, *University of New South Wales (Australia)*; **Branko Bijeljic**, *Imperial College London (UK)*; **Rien van Genuchten**, *Federal University of Rio de Janeiro, UFRJ (Brazil)*; **Rainer Helmig**, *University of Stuttgart (Germany)*; **Patrick Huber**, *Hamburg University of Technology (Germany)*; **Signe Kjelstrup**, *Norwegian University of Science and Technology (Norway)*; **Dani Or**, *University of Nevada (USA)*; **Noushine Shahidzadeh**, *University of Amsterdam (The Netherlands)*; **Shuyo Sun**, *KAUST (Saudi Arabia)* and **Dorthe Wildenschild**, *Oregon State University (USA)*. In addition, a Committee on Publication Ethics will also be members of the Journal’s Editorial Board. These members are: **Sahar Bakhshian**, *The University of Texas at Austin, USA*; **Ran Holtzman**, *Coventry University (UK)*; **Helge Hellevang**, *University of Oslo (Norway)*; and **Philippe Coussot**, *Université Gustave Eiffel (France)*. **Laura Lenz** from the InterPore office will serve as Managing Editor.

### ALBUM OF POROUS MEDIA

The album, edited by **Ezequiel Médici** and **Alejandro Otero**, was published on 15 April and is available online at the Springer website.



### TIME CAPSULE

Professor **Larry Lake** of University of Texas Austin was interviewed by Professor David DiCarlo. A world-famous expert in reservoir engineering, geochemistry, fluid flow in porous media and enhanced oil recovery, Professor Lake is the Shahid and Sharon Ullah Endowed Chair in petroleum engineering. The Time Capsule interview can be viewed on the [InterPore YouTube Channel](#).

### INTERPORE OFFICE STAFF

#### InterPore Journal Managing Editor

**Laura Lenz** joined the InterPore staff the Managing Editor of the InterPore Journal. Among other duties, Laura is responsible for launching and managing the Society’s scientific journal.



## ORGANIZATIONAL CHART

