

## 2024 Annual Report from InterPore National Chapter

[IRAN INTERPORE CHAPTER]

Light report

Substantial report

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**Creation Date: December, 2021 (Reactivation)**

**Executive Summary of National Chapter:** (50-100 words on purpose of the Chapter and specific objectives in addition to the general objectives of InterPore)

The Iran InterPore is a pre-eminent professional Chapter of InterPore representing the interests and activities of Academics, Scientists, Engineers, Industrialists, and Young Scholars all over Iran that actively participate in complex problems and phenomena related to porous media. As a national organization, the Iran InterPore provides a focus for professional leadership to individual members having a broad range of expertise including “Geoscience and Geoenergy”, “Biology and medical science”, “Chemical and environmental engineering”, “Industry” and “Imaging technology in porous media”.

Our activities over the last year include:

1. Successful organization of the **1<sup>st</sup> Iran InterPore Conference on Porous Media**,
2. Activation and creation of an **executive student team**,
3. Organizing **two webinars**, and a **workshop**,
4. Organizing **four technical talks** by **young scholars** in TTT format and free format,
5. Creation and activation of our virtual and **professional channels** in LinkedIn and Telegram platforms with **690 members**, a **three-fold rise** compared to the last year,
6. Inviting some new steering committee members,
7. Planning and organizing **37 steering committee sessions** every week.

We also plan for these series of activities next year:

1. Activation of our **National Group Membership**,
2. Invitation of the **Kimberly-Clark Distinguished Lecturer 2025** Professor Rainer Helmig,
3. Sending the official request for a special issue containing top papers of our recent conference in the **InterPore Journal**.

### Chapter Chair:

Name: Dr. Hamed Sadeghi, Associate Professor

Affiliation: Department of Civil Engineering, Sharif University of Technology

Email: [hsadeghi@sharif.edu](mailto:hsadeghi@sharif.edu)

Telephone: +98-(21)6616-4208

Date of election: May 18, 2022

**Date of the last steering committee meeting: October 9, 2024 (weekly)**

**Chapter Officers:**

<b>Name</b>	<b>Affiliation</b>	<b>Role</b>
1. Dr. Hassan Mahani	Sharif University of Technology	Vice-Chair
2. Dr. Mozhdeh Sajjadi	University of Tehran	Executive Officer
3. Dr. Fahimeh Hooriabad Saboor	University of Mohaghegh Ardabili	Director of Social Networks
4. Dr. Hossein Ghadiri	Tehran University of Medical Sciences	Director of Events
5. Dr. Jafar Qajar	Shiraz University	Communication Officer
6. Dr. Alireza Bazargan	University of Tehran	Awards & Prizes
7. Ir. Davoov Zivar	University of Alberta	Website & IT

**Succession planning:** *(National Chapters are reviewed on a 3-year basis. Describe (in 100-150 words) plans for continuation or discontinuation of the committee, any proposed changes in the technical topic, chairs, co-chairs, and membership or direction of activities. The InterPore board reviews and approves all renewals of National Chapters.)*

For the next year, our main goal is to keep the configuration of our committee members unless stated otherwise by themselves. Therefore, we plan to continue with the majority of our respected committee members who has had meaningful contribution in development and promotion of our chapter. Meanwhile, we will also apply and pay for a group membership of Iran Chapter.

**Legal status:** *(for instance: is the Chapter officially registered in your country?) No, it is not.*

**Number of members at the date of the report:** *(by category: academic, student, industrial)*

- 353 members in our LinkedIn network,
- 337 members in our Telegram virtual platform,
- 690 members in total.

**Financial information:** *(Provide a brief summary of financial situation: income and expenses, grants, membership fees, financial return from conferences and/or workshops organization...).*

*Does the chapter maintain a bank account? If so, who is in charge of it? After successful organization of the 1<sup>st</sup> Iran InterPore Conference on Porous Media in September 2024, we have €1000 deposited in the chapter account. We will spend it carefully for next events as well as for group membership fee to the InterPore account.*

**Activities:** (List the technical activities during the past year and provide a 50-150 word description of them including purpose/goal of activity, number of participants, presentations, measure of impact and success of activity, etc. List activities performed as a group or promoted as an InterPore National Chapter event (technical sessions/workshop held at InterPore annual meeting or other symposia, field trips, workshops, webinars, training courses, study group meetings...), )

In summary, we have conducted a series of activities over the last year as follows:

1. Successful organization of the **1<sup>st</sup> Iran InterPore Conference on Porous Media**. There were a couple of activities and events including (Please refer to the appendix):
  - **Inaugural messages** delivered by **Prof. Michel Quintard, Prof. Majid Hasanizade, Dr Ehsan Hooshfar, and the Conference Chair**
  - **Three keynote lectures** delivered by **Prof. Behrouz Gatmiri, Prof. Shahab Aytollahi, and Prof. Nima Shokri**
  - **Four workshops** delivered by **six top scholars with demonstration of micro CT scan apparatus**
  - **Two technical panels** organized and delivered by **10 scholars from both academia and industry**
  - **Some 70 accepted papers** presented *orally* or in *poster* format
  - **A student competition for the best photo from porous media** under two categories of "*realistic pictures*" and "*AI-generated plates*"
  - **Messages of the Scientific and the Executive Chairs at closing ceremony**



**Fig. 1.** Group photos of some attendees at closing ceremony

## 2. Activation and creation of an executive student team,



Fig. 2. Central core of the student affairs committee

## 3. Organizing two webinars, and a workshop,



انجمن ژئوتکنیک ایران  
Iranian Geotechnical Society



انجمن ژئوتکنیک ایران  
Iranian Geotechnical Society

**TC106 Unsaturated Soils  
Lecture Series:**

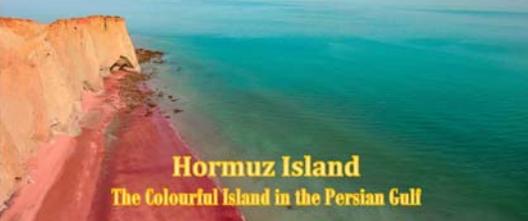


**Professor Behrouz Gatmiri**  

- University of Tehran, Iran
- Ecole des Ponts ParisTech, France

**Discussion on Stress Variables  
in Unsaturated Soils**

Wednesday, June 19, 2024  
 15:00 - 16:30 Iran Time (UTC + 03:30)  
<https://vc.sharif.edu/ch/geoeng-webinar>



**Hormuz Island**  
The Colourful Island in the Persian Gulf

**TC106 Unsaturated Soils  
Lecture Series:**

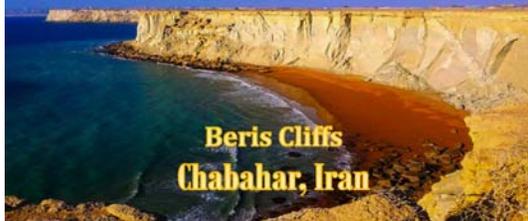


**Professor Ghassem Habibagahi**  

- Shiraz University, Iran

**Factors affecting SWRC and its  
role in the mechanics of  
unsaturated soils**

Sunday, August 18, 2024  
 16:00 - 17:30 Iran Time (UTC + 03:30)  
<https://vc.sharif.edu/ch/geoeng-webinar>



**Beris Cliffs**  
Chabahar, Iran

Fig. 3. Flyer of webinars organized

## 4. Organizing four technical talks by young scholars in TTT format and free format,

The figure displays three posters for technical talks organized by the Iran InterPore Chapter. The first poster on the left is for a technical talk by Mahsa Shirazi on November 7, 2023, at 17:00. The middle poster is for a tea time talk by Dr. Navid Hosseini on December 18, 2023, from 17:00 to 19:00. The bottom poster is for a tea time talk by Aronne Dell'Oca and Mahsa Shirazi on October 15, 2024, at 15:30 CET. A promotional banner at the bottom features the 'Porous Media Tea Time Talks' logo, the hashtag #PorousMediaTTT, and the InterPore Young Academy logo. It lists the speakers and their affiliations: Aronne Dell'Oca from Politecnico Milano and Mahsa Shirazi from Sharif University of Technology. QR codes and logos for the organizing institutions are also present.

**Iran InterPore Technical Talk**  
نحوه کنترل ویژگی‌های سطحی در  
روش میکروفلوئیدیک برای مطالعه  
جریان سیال در محیط متخلخل

**مهندس مهسا شیرازی**  
- دانشجوی دکترا مهندسی نفت دانشگاه صنعتی شریف  
- کارشناس مطالعات مهندسی مخازن - شرکت نفت  
مناطق مرکزی ایران

دوشنبه، ۷ اسفندماه ۱۴۰۲  
ساعت ۱۷

[vc.sharif.edu/ch/iran-interpore](http://vc.sharif.edu/ch/iran-interpore)  
[www.interpore.org/iran-interpore-chapter](http://www.interpore.org/iran-interpore-chapter)

**Iran Interpore Tea Time Talk**  
**Poro-Elastic Analysis**  
of Injection-Induced Seismicity Using  
Extended-FEM Method

**Dr. Navid Hosseini**  
Postdoctoral Associate / University of Calgary, Canada  
Highly skilled and experienced civil engineer with an extensive background in underground hydrology and rock mechanics. Expert in computational modeling and programming of ground water problems in formations containing fractures or faults utilizing the Extended Finite Element Method.

Monday, December 18<sup>th</sup>, 2023  
17:00 - 19:00

[vc.sharif.edu/ch/geoeng-webinar](http://vc.sharif.edu/ch/geoeng-webinar)  
[www.interpore.org/iran-interpore-chapter](http://www.interpore.org/iran-interpore-chapter)

**Iran Interpore Tea Time Talk**  
**بازسازی و مدل سازی**  
چندمقیاسه نمونه سنگ‌های ناهمگن

**مهندس ابوالفضل مسلمی پور**  
دانشجوی دکترا مشترک مهندسی نفت بین دانشگاه  
نریت مدریس و دانشگاه یوهانس گوتنبرگ آلمان

دوشنبه، ۱۸ دی ماه ۱۴۰۲  
ساعت ۱۳

[vc.sharif.edu/ch/iran-interpore](http://vc.sharif.edu/ch/iran-interpore)  
[www.interpore.org/iran-interpore-chapter](http://www.interpore.org/iran-interpore-chapter)

**Porous Media Tea Time Talks**  
#PorousMediaTTT

InterPore Young Academy

15 October 2024 15:30 CET

**Mixing in porous media: Reconnecting with spreading**  
By: Aronne Dell'Oca, MIPORE Research Group, Milan Polytechnic University, Italy.

**How to control surface characteristics in microfluidic experiments for fluid flow studies in porous media?**  
By: Mahsa Shirazi, Department of Chemical and Petroleum Engineering, Sharif University of Technology, Tehran, Iran.

Aronne Dell'Oca  
Mahsa Shirazi

POLITECNICO MILANO 1863

Fig. 4. Announcement of students' talks

5. Creation and activation of our virtual and **professional channels** in LinkedIn and Telegram platforms with **690 members**, a **three-fold rise** compared to the last year,

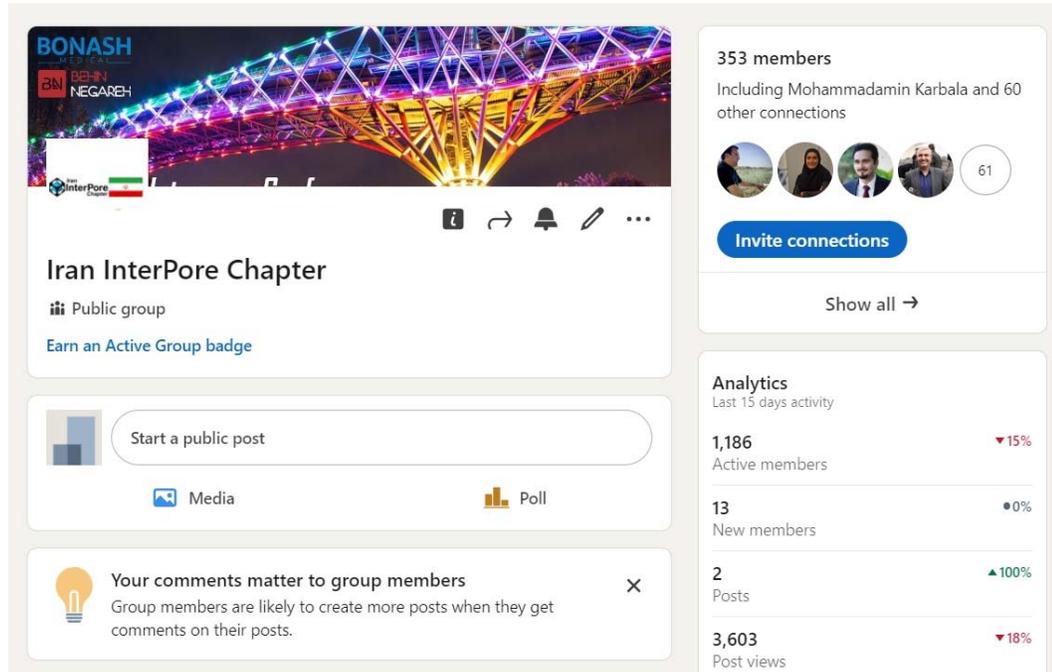


Fig. 5. Iran InterPore Chapter official channel in LinkedIn

6. Inviting some new steering committee members,
7. Planning and organizing **37 steering committee sessions** every week. Our steering committee includes ladies and gentlemen: **Hassan Mahani, Mozhddeh Sajjadi, Fahimeh Saboor, Davood Zivar, Hossein Ghadiri, Alireza Bazargan, Saeid Sadeghnejad, Jafar Qajar, Ehasan Nikooee, and Hamed Sadeghi.**

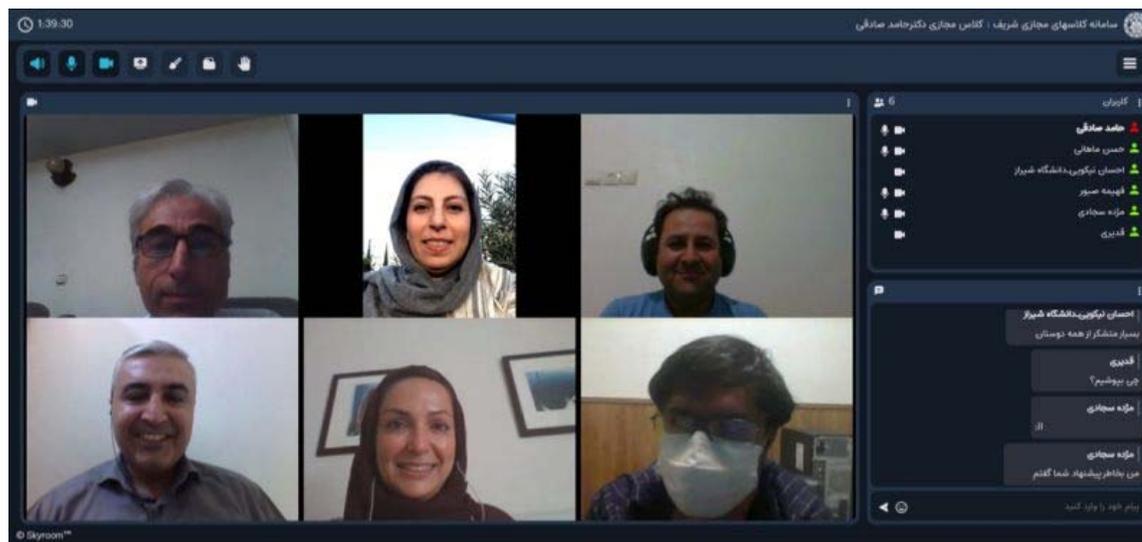


Fig. 6. Group photo at the end of a steering committee session

**Student Affairs Committee in your National Chapter:** Is there a Student Affairs Committee in your National Chapter? What is the role of Student Affairs? Please, add comments about possible new actions which would lead to having student-focused activities and events at the national level.

Following our recent conference, we have been successful in creation and activation of a Student Organization Committee, so we plan to encourage this team to form the Student Affairs Committee of Iran InterPore Chapter.

**Goals for the current year:** *(Describe your Chapter's goal for this year and what progress was made in 100-200 words)*

1. We plan to activate of our **National Group Membership** for 35 selected nominates,
2. We also will send our official request to invitation of the **Kimberly-Clark Distinguished Lecturer 2025** Professor Rainer Helmig.

**Goals for the coming years:** *(Describe what goals have been established for coming years in about 100 words, indicate new propositions and planned activities for next year)*

1. We will hopefully publish a special issue containing top papers of our recent conference in the **InterPore Journal**,
2. We have been working to **define the mechanism** for election of key steering committee members.

**Communication:** *(How often and in what form does your National Chapter communicate with members (email, social media, website)?)*

We have arranged majority of our meetings online on a weekly basis. We occasionally met in person during the last year.

**Chapter membership:** *(Do you review membership periodically? Do you have a plan for new member recruitment, member retention, student involvement, etc?)*

Yes, our main focus has been on recruiting young students and fresh graduates especially in our executive committee. We also appoint fresh enthusiastic faculty members in the steering committee.

**Appendix:** *(If needed, please place any additional information that you feel is pertinent to the future review of your National Chapter in this Appendix. Please, add you might also add comments and suggestions on how to improve communication between the National InterPore Chapters and InterPore Executive Committee).*

In the appendix, we will present some details about the **1<sup>st</sup> Iran InterPore Conference on Porous Media** held at the School of Mechanical Engineering, University of Tehran, on September 23-25, 2024. In addition, further details can be found at the conference website:

<https://events.interpore.org/event/54/>

1. *Inaugural messages* delivered by **Prof. Michel Quintard**, **Prof. Majid Hassanizade**, **Dr Ehsan Hooshfar**, and the **Conference Chair**



**Fig. A1.** Inaugural messages delivered at the opening ceremony

2. *Three keynote lectures delivered by Prof. Behrouz Gatmiri, Prof. Shahab Ayatollahi, and Prof. Nima Shokri*



Fig. A2. Keynote speakers

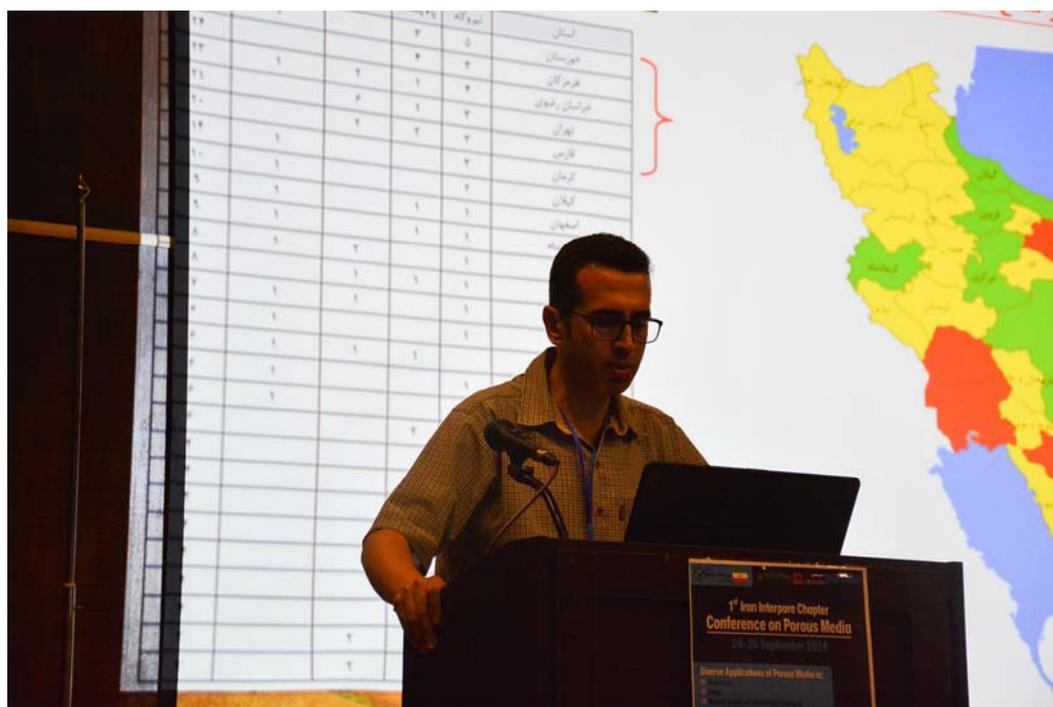
3. *Four workshops delivered by six top scholars with demonstration of micro CT scan apparatus*



Fig. A3. The workshop of Rock 3D Digital Imaging



**Fig. A4.** The workshop of Patenting or Publishing



**Fig. A5.** The workshop of Exploring the Potential of Energy Piles in Industrial Applications

4. *Two technical panels organized and delivered by 10 scholars from both academia and industry*



**Fig. A6.** The Energy Panel



Fig. A7. The Membrane Panel

5. Some 70 accepted papers presented *orally* or in *poster* format



Fig. A8. Parallel sessions



Fig. A9. Poster presentation sessions

6. A student competition for the best photo from porous media under two categories of "realistic pictures" and "AI-generated plates"
7. Messages of the Scientific and the Executive Chairs at closing ceremony



Fig. A10. Closing ceremony