

ENERGY, RESOURCES AND THE ENVIRONMENT (ERE)

Division Meeting, 29.04.2024

Giorgia Stasi, Viktor J. Bruckman & the ERE team



Energy, Resources
& the Environment

Division



Meetings | Publications | Outreach | www.egu.eu



Rotman Criollo
ECS Representative



Viktor J. Bruckman
Vice President
Integrated studies



Giorgia Stasi
President



Johannes Miotic
Outreach
Geo-storage



Sonja Martens
Renewable Energy



Firefly Image 4



Michael Kühn
Publications
Raw materials, monitoring



Thanushika Gunatilake
ECS co-Representative



Sarah Weihmann
OSPP Coordinator



Ana Teresa M. Lima
Policy

ERE in a nutshell

- **ERE** builds on the **interdisciplinary geoscientists community** at EGU, representing various disciplines of the earth, planetary and space sciences.
- ERE addresses **challenges** of the present and future:
- Provide adequate and reliable supplies of affordable **energy and geo-resources**,
- obtained in **environmentally sustainable** ways,
- to promote **economic prosperity, environmental quality** and **political stability** around the world.



How do we serve the community?

- **Organization** – Plan/run the ERE sessions for the General Assembly, Campfires
- **Publications** – Organize our annual ERE special issue
- **Information** – Run the ERE mailing lists, website, blog, newsletter, BlueSky
- **Awards** – Organizing ECS and OSPP Awards
- **Networking** – Bring together ERE early career scientists, building bridges across disciplines, generations and regions

Our goal:

to provide a forum where scientists, especially early career researchers, can present their work and discuss their ideas with experts in **all fields of geoscience**, by offering a **hybrid, inclusive** and **environmentally friendly General Assembly** that responds to the main **scientific challenges** of geosciences worldwide

EGU25: numbers at a glance

- **1,099 active sessions** in total (+7% EGU24):
 - 730 disciplinary PG sessions, of which 48 are ITS sessions
 - 20 Education and Outreach Sessions (EOS), incl. GIFT workshop
 - 62 Short Courses + 2 Artist in Residence workshops
 - 39 Medal and Award Lectures
 - 9 Union Symposia and 9 Great Debates
 - 146 Townhall & Splinter meetings scheduled
- **ECS Networking, Science for Policy, and EDI Committee events**



EGU23 oral presentation
Photo credit: Pfluegl 2023

More on: <https://www.egu25.eu/>

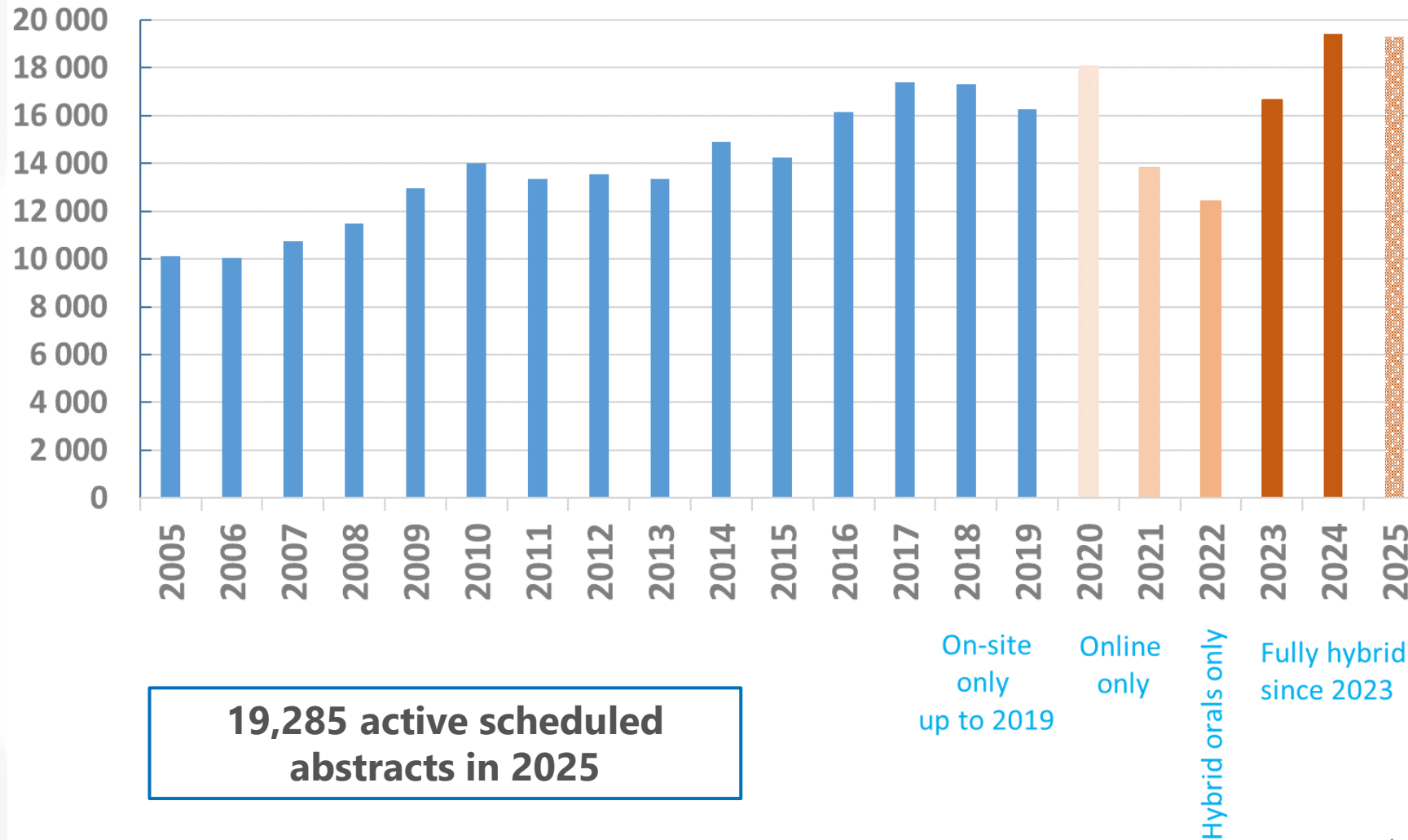


General
Assembly

2025

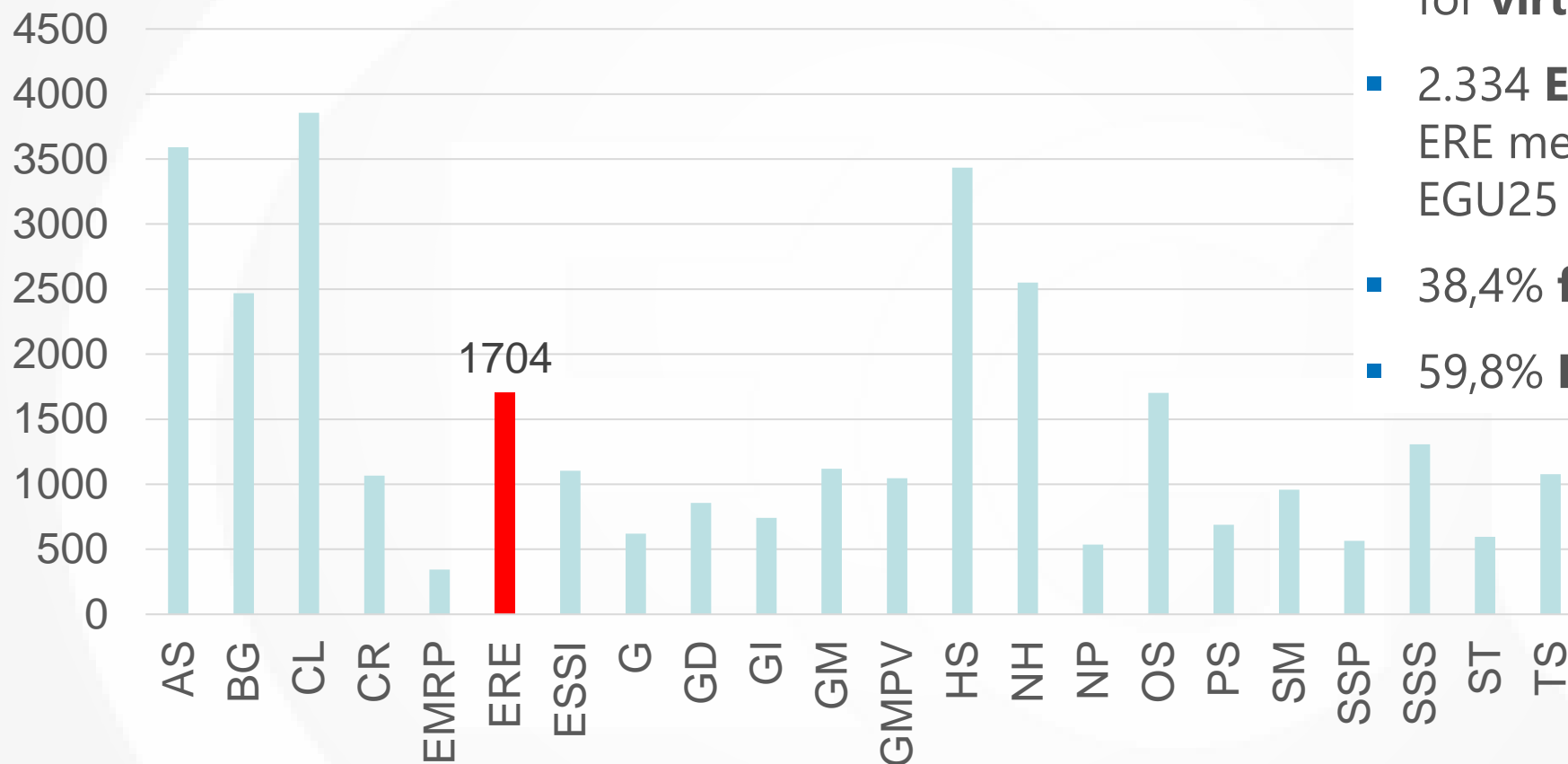
Vienna, Austria & Online | 27 April–2 May 2025

EGU25 Abstract Submission Over Time



(as of 16 April 2025)

Registration per Disciplinary Programme Group



- 17,400+ **registrations** (~8% for **virtual participation**)
- 2.334 **ERE members**, 1.704 ERE member registrations for EGU25 (6th rank)
- 38,4% **female** (6th rank)
- 59,8% **ECS** (56,5% entire EGU)

(note: a participant can choose more than one affiliation)

(as of 16 April 2025)

ERE Scientific Program 2025 (2024)

- ERE 1 – Integrated Studies (**8/3**)(8/6)
- ERE 2 – Renewable Energy (**5/2**)(8/3)
- ERE 3 – Geo-storage (**6/0**)(5/0)
- ERE 4 – Raw materials and resources (**5/1**)(7/1)
- ERE 5 – Process coupling and monitoring (**3/4**)(6/3)
- ERE 6 – Inter- and Transdisciplinary sessions related to ERE (**6/0**)(5/0)

Summary

33 sessions lead (2024: 39), **10** sessions (co-organized)

<https://meetingorganizer.copernicus.org/EGU25/sessionprogramme/ERE>



Division Outstanding Early Career Scientist Award



The 2025 Division Outstanding Early Career Scientist Award is awarded to

Iman Rahimzadeh Kivi

for outstanding contributions to the characterisation and modelling of coupled thermo-hydro-mechanical-chemical (THMC) processes in geo-energy applications and his enthusiastic community service.

**AWARD LECTURE: Wed, 30 April, 14:05–14:35,
Room -2.31 (PURPLE LEVEL)**

Outstanding Student and PhD candidate Presentation (OSPP) Award



The 2024 ERE OSPP Award goes to

Gabriele Benedetti

A python toolbox for survival analysis in
fractured rock systems

Outstanding Student and PhD candidate Presentation (OSPP) Award



The 2023 ERE OSPP Award goes to

Isabel Lange

Dissolution experiments on a polyphase
basalt surface under conditions relevant
to offshore CO₂ storage

NEW ERE President (2025-2027)!



Giorgia Stasi

enrolled in a PhD program in Applied Geophysics at the University of Liège, Belgium
Geologist at the Geological Survey of Belgium (specialized in Ore Geology and Geochemistry)

- ERE Division President (since April 28, 2025)
- **First ECS Division President of the Union**

- President / PG Chair: **Giorgia Stasi (elected)**
- Outgoing Deputy President: **Viktor J. Bruckman (elected)**
- Division Officers
 - **Rotman Criollo** (ECS Representative)
 - **Astrid Fajtak** (policy)
 - **Thanushika Gunatilake** (ECS co-Representative)
 - **Michael Kühn** (publications & ERE 4/Raw materials and resources & ERE 5 /process coupling and monitoring SPG chair)
 - **Sonja Martens** (ERE 2/Renewable Energy SPG chair)
 - **Johannes Miocic** (outreach, ERE 3/Geo-storage SPG chair)
 - **Daniel Ospina** (policy)
 - **Sarah Weihmann** (OSPP coordinator)



G. Stasi



V.J. Bruckman

**Unanimously
Approved**



R. Criollo



A. Fajtak



T. Gunatilake



M. Kühn



S. Martens



J. Miocic



D. Ospina



S. Weihmann

ERE GA25 Activities & Highlights



EGU

Pop-up event
URBAN GEOLOGY TOUR
Thu, 1 May, 13:45-18:30
Meeting point in front of the conference center
Free inscription mandatory

The poster features a scenic view of a river with trees in autumn foliage. A small cartoon character of a person with a backpack is at the bottom right.



EGU Energy, Resources & the Environment

Meet the ERE Division Team
Wed, 30 April @ 15:45-16:15
Location: EGU booth – Hall X2

The poster includes an illustration of three people (two men and one woman) sitting around a table, engaged in a discussion. A lightbulb icon is above them, symbolizing ideas or innovation.



EGU

Great Debate 4
Will a paradigm shift from on-shore to off-shore mining serve the future of humanity?
Tuesday 29 April, 16:15-18:00 CEST
Room E1
#EGU25

The poster has a background of abstract, swirling blue and white patterns, resembling a geological or fluid dynamic structure.

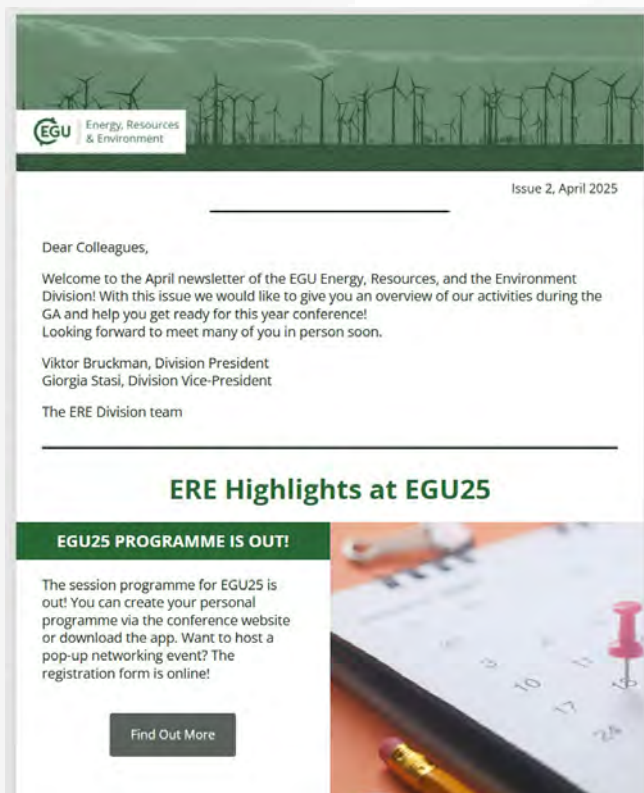


EGU

Public Lecture
Copied from Nature – Long-Term Safety: Carbon Dioxide and Highly Radioactive Waste in the Deep
Michael Kühn
Tue, 29 Apr, 18:00
Austrian Academy of Sciences (OAW)

The poster features a landscape image of a mountain range with a large, colorful, abstract structure (possibly a geological formation or a model) in the foreground. The text 'Mont Terri' is visible in the upper right.

ERE GA25 Activities & Highlights



EGU25 Children's Art Exposition



#EGUart

Clean energy can come from the **sun**, **wind**, **water** and even the **heat from deep inside the Earth** (geothermal). These types of energy sources are called **renewable**, as they come from natural things that do not run out. Scientists who study the Earth (**geologists**) play an important role in identifying suitable locations and sourcing resources needed to build renewable energy infrastructure.





Join us in exploring the Power of the Planet through the growing exhibition of art created by (very) Early Career Scientists at the EGU25 childcare and family room facilities!

Division Represented: **ERE** Energy, Resources and the Environment

Subscribe to the newsletter!

ERE Going Forward

Interdisciplinarity of ERE reflects current needs:

-  Energy transition
-  Bridge between geoscience and policy
-  Climate resilience and environmental risk
-  Circular Economy



- Sustainable growth
- Increase opportunities of networking and connections
- Foster interdisciplinary collaboration

What can we do for you?



<https://www.menti.com/>
Code: 2599 6301

ERE Early Career Scientists ECS

Who we are

Early career scientists (ECS) are students and scientists in the Earth, planetary and space sciences who received their highest degree within the past seven years.

What we do

- Working Groups
- Communication and outreach
- Webinars and training
- Networking events
- Science-policy activities

ERE Early Career Scientists ECS

- ECS Team:



Rotman Criollo
Outgoing
ECS Representative



Thanushika Gunatilake
Incoming
ECS Representative



Annelotte Weert
ECS team



Nikita Bondarenko
ECS team



Ronja Borgmastars
ECS team - policy



YOU ARE THE NEXT!

Are you interested in being more involved in EGU activities?

Join our team !

For more info: ecs-ere@egu.eu

ERE Early Career Scientists ECS

■ Our activities:

- Campfires (informal seminars)
- Short Courses during the GA
- Fieldwork-related activities (webinars)
- Participation to the Working Groups
- Networking events



Meet with other early careers scientist (ECS) may support your collaborations



POP-UP EVENT

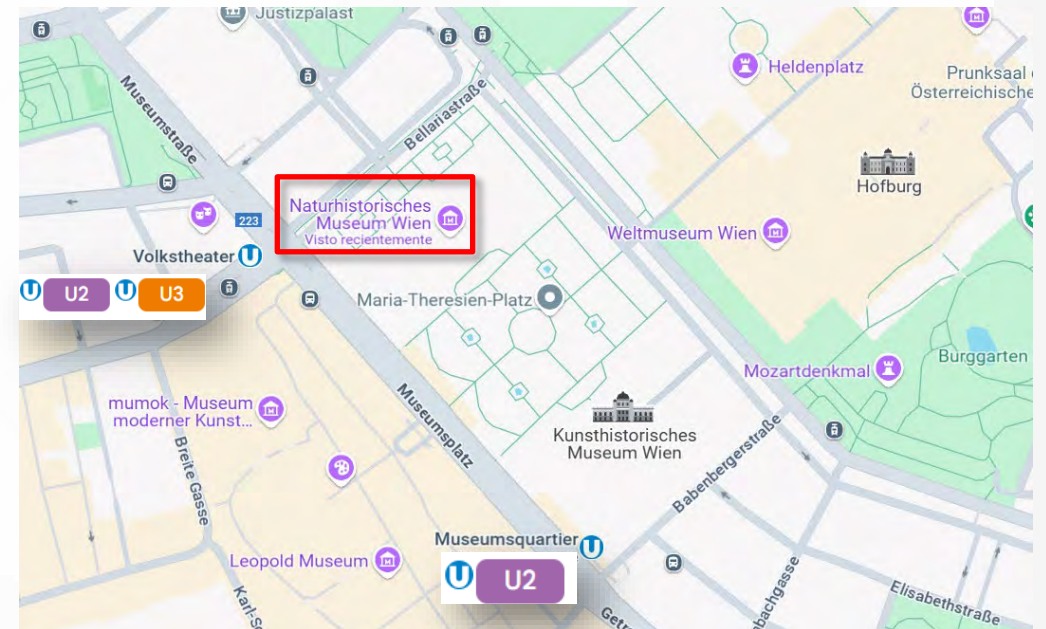
EGU Scavanger Hunt @ NHM Vienna

Sun, 27 Apr, 14:00-15:30

Mon, 28 Apr, 8:45–10:00

Location:

Natural History Museum Vienna



ERE Early Career Scientists ECS

■ Our activities:

- Campfires (informal seminars)
- Short Courses during the GA
- Fieldwork-related activities (webinars)
- Participation to the Working Groups
- Networking events



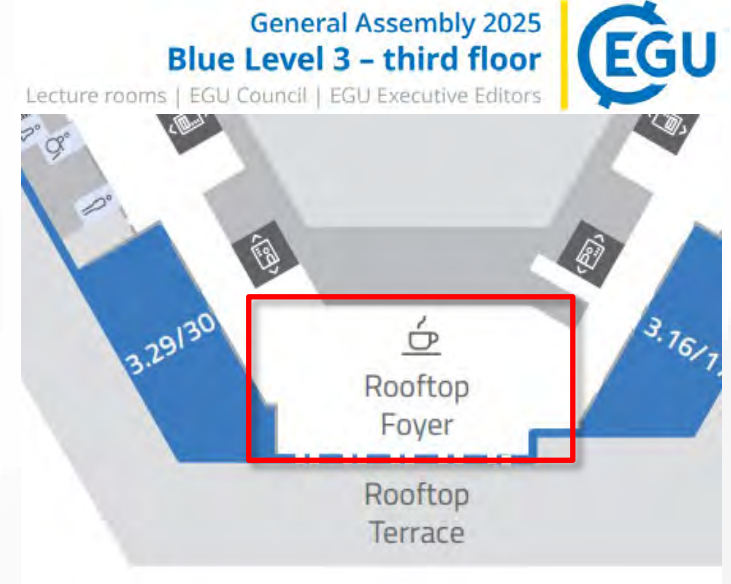
Meet with other early careers scientist (ECS) may support your day by day science

NET6
ECS NETWORKING RECEPTION

Tue, 29 Apr, 18:00–19:30

Location:

Rooftop Foyer (Blue Level - floor 3)



ERE Early Career Scientists ECS

■ Our activities:

- Campfires (informal seminars)
- Short Courses during the GA
- Fieldwork-related activities (webinars)
- Participation to the Working Groups
- Networking events



Meet with other early careers scientist (ECS) may support your day by day science (tips, methods, grants, collaborations,)

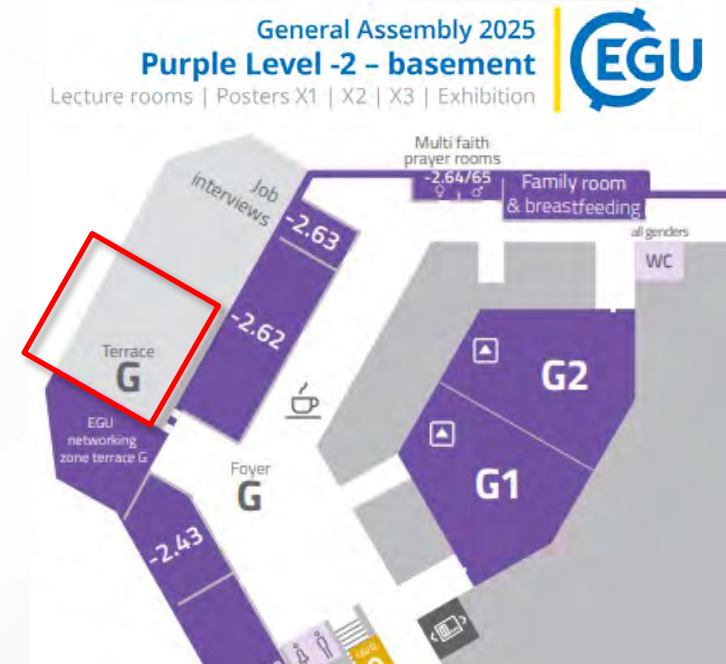


ERE ECS NETWORKING LUNCH

Wed, 30 Apr, 12:45–13:45

Location:

Terrace G (Purple level – floor -2)



ERE Early Career Scientists ECS

■ Our activities:

- Campfires (informal seminars)
- Short Courses during the GA
- Fieldwork-related activities (webinars)
- Participation to the Working Groups
- Networking events



Having a connected community of ERE ECS

POP-UP EVENT ERE Women and Allies Lunch

Thu, 01 May, 12:30–14:00

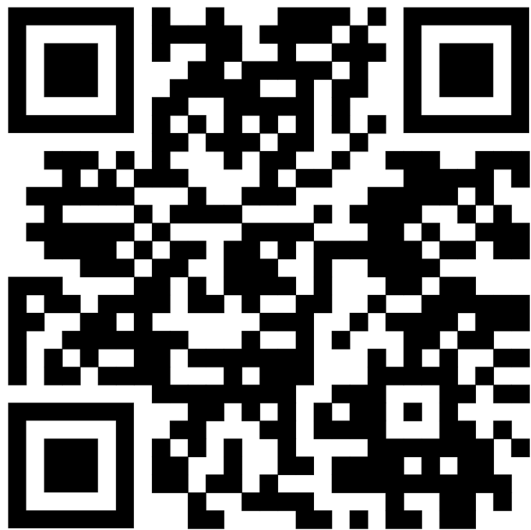
Location:

Networking zone

Terrace G (Purple level – floor -2)



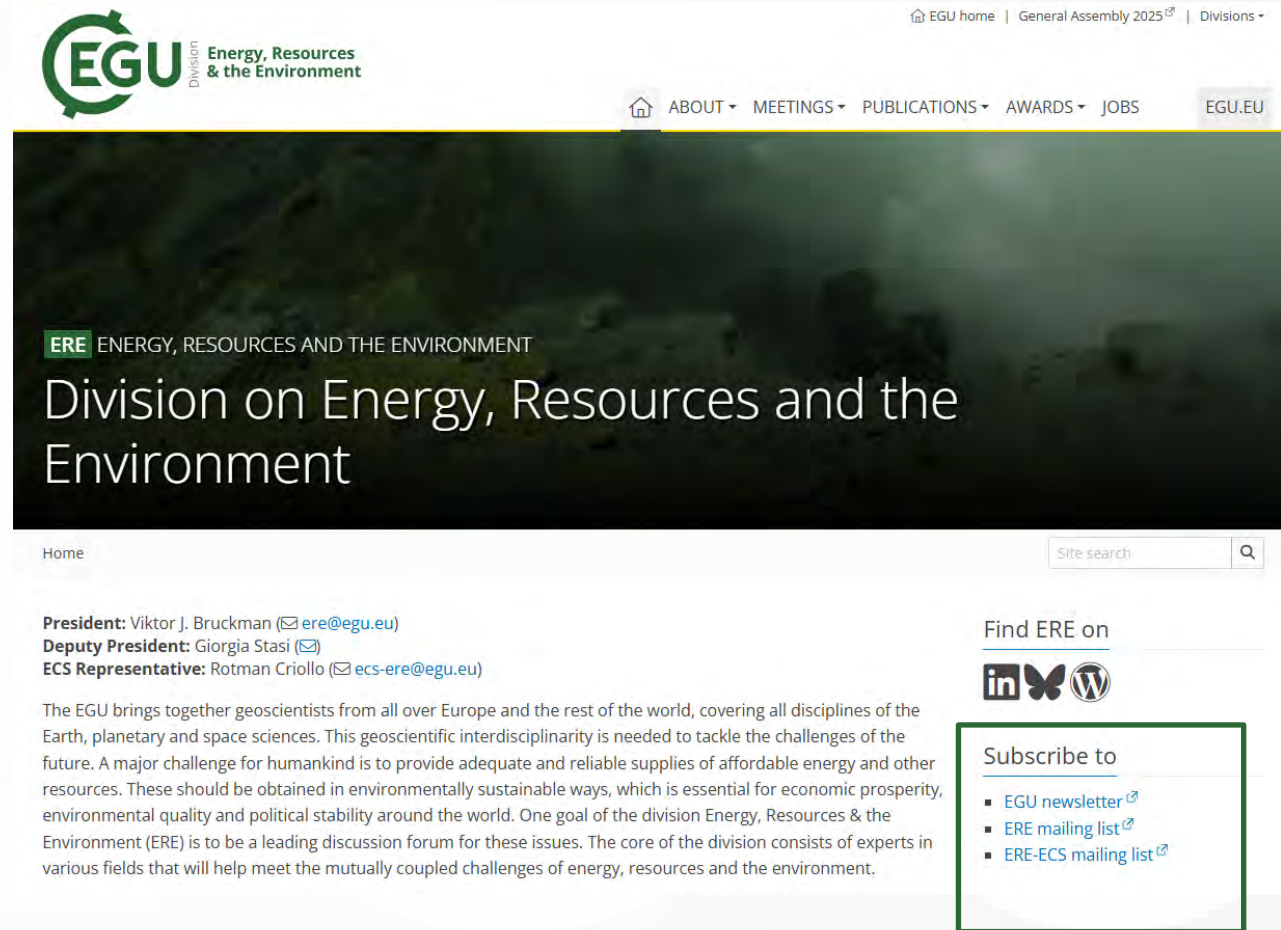
<https://www.egu.eu/ere/>



Join our team !

For more info: ecs-ere@egu.eu

ERE Early Career Scientists ECS



The screenshot shows the official website of the EGU Division on Energy, Resources and the Environment (ERE). The header includes the EGU logo and navigation links for 'EGU home', 'General Assembly 2025', and 'Divisions'. A secondary navigation bar lists 'ABOUT', 'MEETINGS', 'PUBLICATIONS', 'AWARDS', 'JOBS', and 'EGU.EU'. The main banner features the ERE logo and the text 'Division on Energy, Resources and the Environment'. Below the banner, the 'Home' section lists the President (Viktor J. Bruckman), Deputy President (Giorgia Stasi), and ECS Representative (Rotman Criollo), each with an email icon and address. A paragraph describes the division's mission to address global challenges through interdisciplinary geoscience. On the right, there are links to find ERE on LinkedIn, Twitter, and WordPress, and a 'Subscribe to' section with links for the EGU newsletter, ERE mailing list, and ERE-ECS mailing list.

EGU home | General Assembly 2025 | Divisions

ABOUT MEETINGS PUBLICATIONS AWARDS JOBS EGU.EU

ERE ENERGY, RESOURCES AND THE ENVIRONMENT

Division on Energy, Resources and the Environment

Home Site search

President: Viktor J. Bruckman (✉ ere@egu.eu)
Deputy President: Giorgia Stasi (✉)
ECS Representative: Rotman Criollo (✉ ecs-ere@egu.eu)

The EGU brings together geoscientists from all over Europe and the rest of the world, covering all disciplines of the Earth, planetary and space sciences. This geoscientific interdisciplinarity is needed to tackle the challenges of the future. A major challenge for humankind is to provide adequate and reliable supplies of affordable energy and other resources. These should be obtained in environmentally sustainable ways, which is essential for economic prosperity, environmental quality and political stability around the world. One goal of the division Energy, Resources & the Environment (ERE) is to be a leading discussion forum for these issues. The core of the division consists of experts in various fields that will help meet the mutually coupled challenges of energy, resources and the environment.

Find ERE on

in

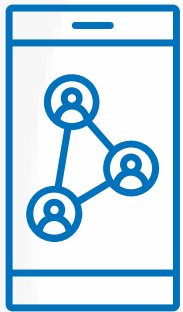
Subscribe to

- EGU newsletter
- ERE mailing list
- ERE-ECS mailing list

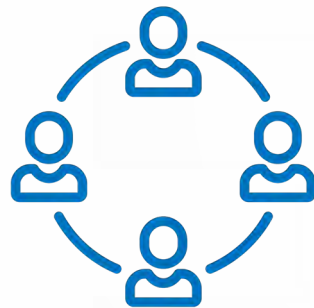
Early Career Scientists | ecs-ere@egu.eu

EGU Early Career Scientists ECS

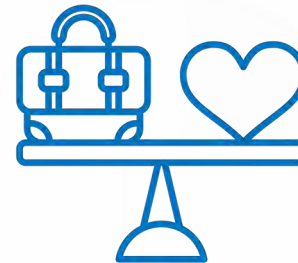
Working Groups | What are they and what do they do?



**Outreach &
Communication**



**Activities &
Impact**



Life-Career Wellness



**Equality, Diversity
and Inclusion**

ERE Conveners – Division Dinner



WHERE

"Melker Stiftskeller" restaurant

WHEN

Thursday 01/05 at 19:20

LOCATION

Schottengasse 3, 1010 Wien, Austria



MENU

Different options
Including vegan,

BY YOUR OWN

Registration



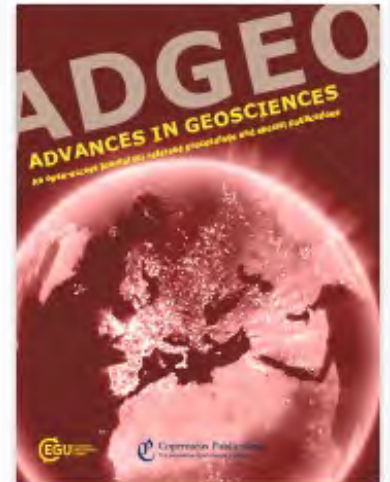
Limited places!
First come, first served basis!



Early Career Scientists | ecs-ere@egu.eu

ERE: Publish in Advances in Geosciences

- **Join the ERE special issue 2025 in Advances in Geosciences (ADGEO)**
- If you submitted an abstract to an ERE session or a co-organized one for the GA 2025, you are welcome to contribute with a publication.
- Your manuscript needs to be directly linked to your EGU abstract (please add your abstract number when submitting).
- **Guidelines for preparations and templates** are available on the ADGEO website: <https://www.advances-in-geosciences.net/submission.html>
- Manuscripts need to be 4 pages long and should target around 10 pages.
- **Publication fees** are 900 € per paper (changed since 1st January 2025).
- **Submissions** are possible from 1 April **until 15 June 2025**.
- Reviews are done by ERE officers, conveners and authors of the GA 2025.
- If you submit a manuscript we expect you to take part in the reviewing process. So we might ask you to do up to two reviews.
- **Questions?** Please contact: Michael Kühn (adgeo.ere.egu@gfz-potsdam.de)



EGU General Assembly 2024, Vienna, Austria, 14–19 April 2024

Editor(s): Michael Kühn (Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, Germany), Viktor J. Bruckman (Austrian Academy of Sciences, Austria), Soeren Scherf (Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, Germany), and Johannes Miocic (University of Groningen, Netherlands)

A major challenge for humankind is to provide adequate and reliable supplies of afford. in environmentally sustainable ways, which is essential for economic prosperity, enviro. this Special Issue, that reflects the scientific program of the General Assembly 2024 of t the European Geosciences Union (EGU), we would like to provide a holistic view on activ management of energy-related programs. In addition, we provide a forum for the prese developments in the understanding of resources systems. This can also cover aspects o

Review process: all papers of this special volume underwent the regular peer-review process of *ADGEO* managing editor.

27 Sep 2024

New data for a model update of the Waiwera geothermal reservoir in New Zealand

Michael Kühn, Vaughan Stagpoole, Graham Paul D. Viskovic, and Thomas Kempka
Adv. Geosci., 65, 1–7, <https://doi.org/10.5194/adgeo-65-1-2024>, 2024

► Short summary

27 Sep 2024

Quantification of scalings in dynamic environments using a combination of Quartz Crys

Lilly Zacherl and Thomas Baumann

Adv. Cases. 65:0-17. <https://doi.org/10.5104/advcas.65.0.2024.2024>

08 Nov 2024

Geological screening of onshore saline aquifers for CO₂ storage: Paraná and Espírito Santo basins, Brazil

Francyne Bochi do Amarante, Juliano Kuchle, Claiton Marlon dos Santos Scherer, Shahin E. Dashtgard, and Maurício Barcelos Haag
Adv. Geosci., 65, 19–35, <https://doi.org/10.5194/adgeo-65-19-2024>, 2024

► Short summary

11 Nov 2024

Characterization of artesian flow and heat transition in an ATEs research wellbore using DTS monitoring and numerical modelling

Liang Pei, Lioba Virchow, Guido Blöcher, Stefan Kranz, and Ali Saadat
Adv. Geosci., 65, 37–44, <https://doi.org/10.5194/adgeo-65-37-2024>, 2024

► Short summary

12 Nov 2024

DecTree: a physics-based geochemical surrogate for surface complexation of uranium on clay

Marco De Lucia

Adv. Geosci., 65, 45–54, <https://doi.org/10.5194/adgeo-65-45-2024>, 2024

► Short summary

25 Nov 2024

Lessons from national approaches: a long uphill struggle in search of sites for repositories for nuclear waste locations

Thomas Flüeler

Adv. Geosci., 65, 55–70, <https://doi.org/10.5194/adgeo-65-55-2024>, 2024

► Short summary

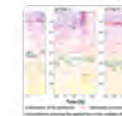
04 Dec 2024

Assessing future ice-sheet variability for long-term safety of deep geological repositories

Johan Liakka, Natalie S. Lord, Alan Kennedy-Asser, Daniel J. Lunt, Charles J. R. Williams, and Jens-Ove Näslund

Adv. Geosci., 65, 71–81, <https://doi.org/10.5194/adgeo-65-71-2024>, 2024

► Short summary



Open Access Publications



- Open Access Journals
- Interactive Public Peer Review



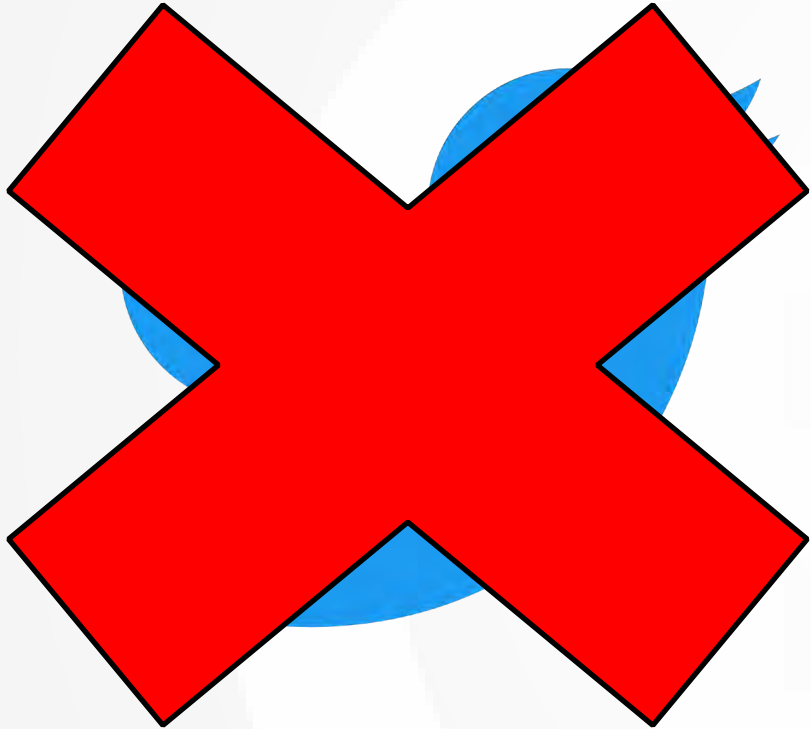
www.egu.eu/publications

Outreach



**EGU Energy, Resources and the
Environment (ERE) Division**

Outreach



**EGU Energy, Resources and the
Environment (ERE) Division**

Outreach



@egu-ere.bsky.social



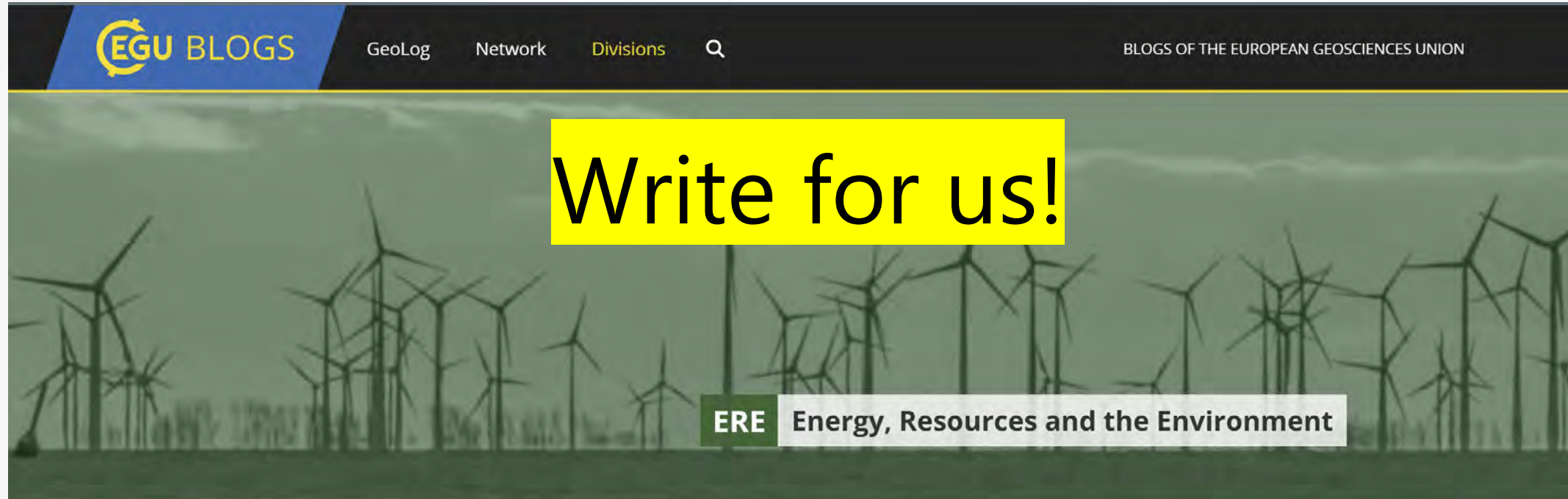
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**EGU Energy, Resources and the
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[EGU Blogs](#) » [Divisions](#) » Energy, Resources and the Environment

<https://blogs.egu.eu/divisions/ere/>

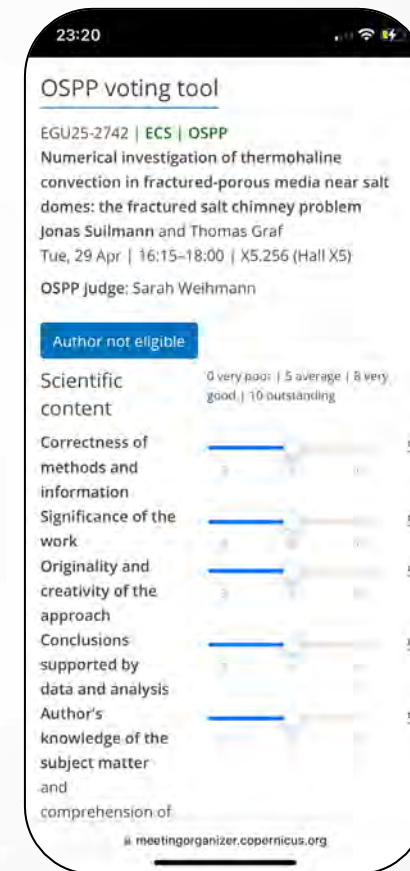
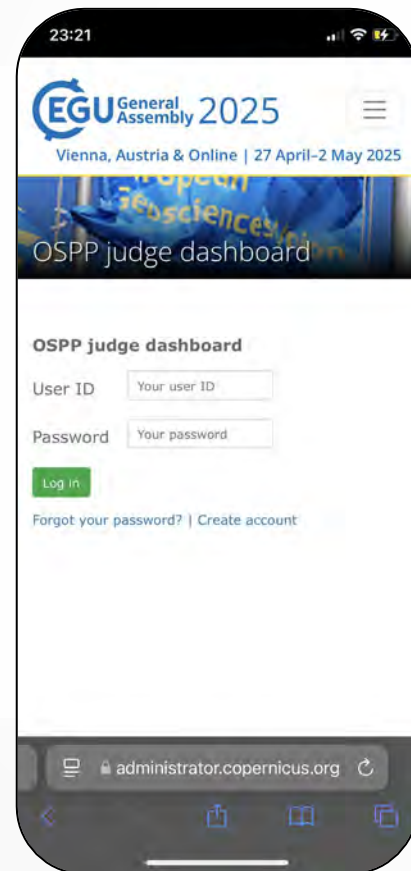
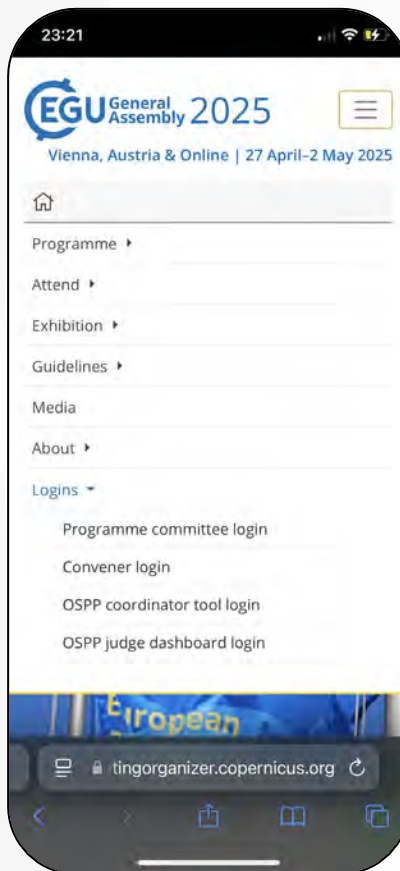
Energy, Resources and the Environment

Interview with ERE Outstanding ECS Awardee Iman Rahimzadeh Kivi

johannesmiocic · April 25, 2025

ABOUT

Outstanding Student and PhD candidate Presentation (OSPP) Awards





EGU Special Activity Fund 2026 – call for proposals

Goal: Promote **high-profile, innovative, 'out-of-the-box', not-profit activities contributing to EGU's vision and strategy:** <https://www.egu.eu/about/strategy/>

Key points: ~20-30k EUR per project, activity has to start and must be completed in 2026

Application process:

- Concept note due by Fri 13 June 2025
- Full proposals (upon invitation by mid-July) due by Fri 19 Sept 2025
- Decision by October 2025

For details and to **submit a concept note** (DL13.06.2025):

 <https://www.egu.eu/meetings/special-activity-fund/>



Join a Science for Policy Session at EGU25!

Find out how you can more effectively engage with policymakers and how your research can have policy impact

EGU's Science for Policy Help Desk
Every day, 12:00-13:00 at the EGU booth

See the full EGU25 Science for Policy Programme





Subscribe to the EGU's Science for Policy Newsletter!

Monthly updates on:

- EGU's #Sci4Pol activities
- Opportunities to engage with policymakers
- Science-policy events and workshops
- Geoscience-relevant policy news



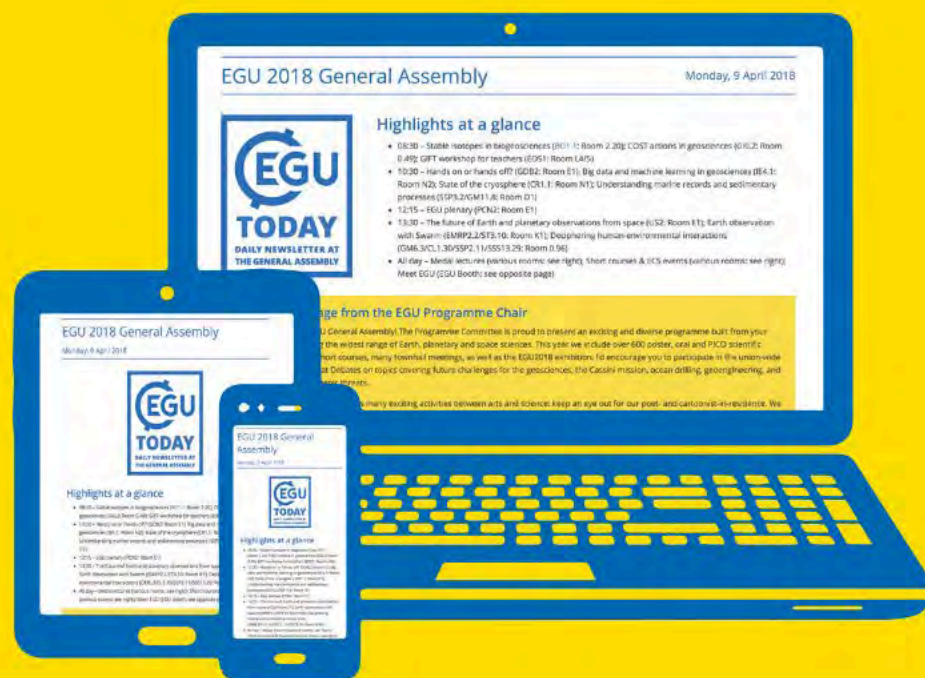


The Daily Newsletter at the General Assembly

EGU TODAY IS NOW DIGITAL!



www.egu.eu | info@egu.eu



All issues of the newsletter
will be made available at

www.egu.eu/egutoday/

through the conference app
and on screens inside the ACV.

The EGU Topical Events Committee announces the call for Training School applications: 16

May, 2025



Photo credit: [V. De Micco, 2024](#)

The EGU provides [financial support](#) to training school organisers in order to facilitate participation of early career scientists and/or to support the quality of the school through field trips or by inviting exceptional lecturers.

Learn more at
www.egu.eu/meetings/training-schools



Did you know the EGU has a monthly newsletter?



www.egu.eu | info@egu.eu



The email newsletter informs EGU members about

- EGU NEWS AND BLOGS
- GENERAL ASSEMBLY UPDATES
- HIGHLIGHTS FROM EGU JOURNALS
- JOBS AND MEETINGS

and much more!



www.egu.eu/newsletter





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