

# 2024 Earth Magnetism and Rock Physics (EMRP) Division Meeting

Sergio Vinciguerra, Fabio Florindo, Eric Font, George Balasis, A. Di Chiara, Saioa A.Campuzano, C. Giorgetti, L. van Grinsven, N. Casas, N. Bigaroni

Wednesday, 17 April 2024, Room -2.16, 12:45-13:45

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EGU24 General Assembly, Vienna and online | 14–19 April



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Meetings | Publications | Outreach | [www.egu.eu](http://www.egu.eu)

# EMRP 2024 Structure and Division officers

<b>EMRP1</b>	<b>Rock and Mineral Physics</b>
<b>EMRP2</b>	<b>Geomagnetism</b>
<b>EMRP3</b>	<b>Paleomagnetism and Environmental Magnetism</b>

<b>President</b>	Sergio Vinciguerra	Univ. of Turin (Italy)	
<b>Deputy President</b>	Fabio Florindo	INGV (Italy)	
<b>Science Officer</b>	Eric Font	Univ. of Coimbra (Portugal)	
<b>Science Officer</b>	George Balasis	NOA (Greece)	
<b>Science Officer</b>	Anita Di Chiara	INGV (Italy)	
<b>Science Officer</b>	Saioa A. Campuzano	Complutense Univ. of Madrid (Spain)	
<b>ECS Representative</b>	Carolina Giorgetti	Sapienza Univ. (Italy)	
<b>ECS Team</b>	L. van Grinsven, N. Casas, N. Bigaroni		

ECS= Early Career Scientists

Want to be involved? Please contact : [sergiocarmelo.vinciguerra@unito.it](mailto:sergiocarmelo.vinciguerra@unito.it)

## EGU24: News from the EGU Programme Committee

**EGU Programme Committee** has **two Co-chairs**, appointed by the EGU Council. They are supported by **an Events Manager** staff member from EGU office

**Programme Committee:** comprised of **General Positions** (Executive Board, Conference Organizer, PC Co-chairs), and **Programme Group Chairs** (25 Programme Groups reflecting the 22 EGU Divisions with their science officers, and SC, ITS, EOS programmes)

**Our goal:** to offer a reliable, **hybrid** format of the General Assembly with flexibility to respond to any emerging needs, as **inclusive** and **environmentally friendly** as possible, while responding to the main **scientific challenges of geosciences worldwide**



Maria-Helena  
Ramos

PROGRAMME COMMITTEE  
CO-CHAIR



Athanasios Nenes

PROGRAMME COMMITTEE  
CO-CHAIR



Jane Roussak

EVENTS MANAGER

[https://egu24.eu/about/programme\\_committee\\_composition.html](https://egu24.eu/about/programme_committee_composition.html)

## EGU President and Division President Elections



### Elections in Autumn 2023

**EMRP President** : Sergio Vinciguerra  
Division President for the term 2023–2025.

Elected for the **second** term.

He will serve as Division President for the term 2025–2027.

EMRP Earth Magnetism & Rock Physics



Sergio Vinciguerra

ELECTED

80 votes (98.8%)

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**EGU president:** Irina M. Artemieva

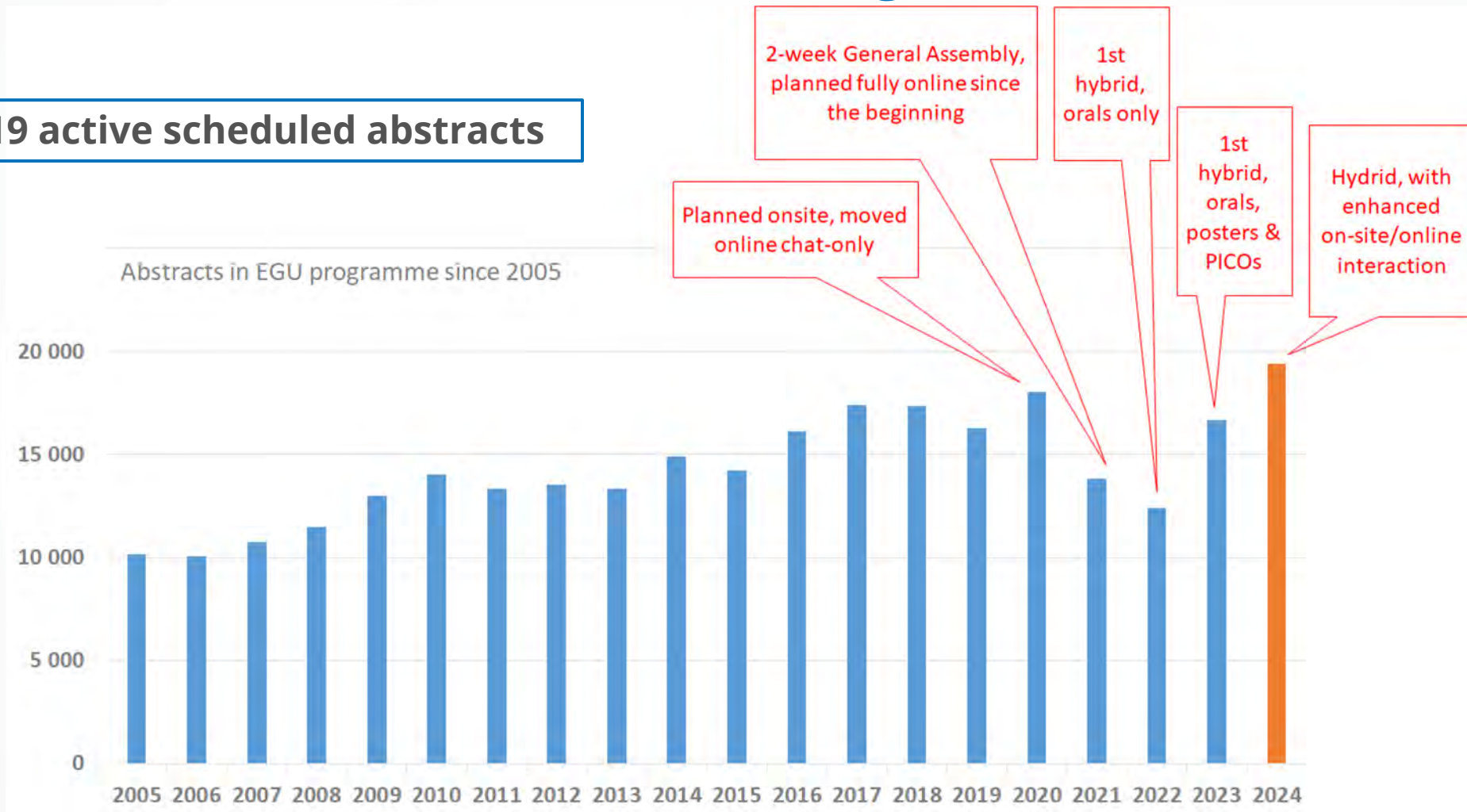
She will serve as EGU President for the term **2023-2025**.

Next EGU President: Peter van der Beek (term **2025-2027**)



## EGU24: numbers at a glance (as of 29 March 2024)

**19,319 active scheduled abstracts**



## EGU24: numbers at a glance (as of 4 April 2024)

19,319 **active scheduled abstracts**

16.746 **paid registrations** (8% for **virtual participation**)

50% of **virtual participants benefited from free registration**  
(Undergraduate/master students & Low- & lower-middle income countries)

37% of on-site participants and 52% of virtual participants are **PhD candidates, Master or Undergraduate students**

2% of on-site participants and 24% of virtual participants are from **Low & Lower-middle income countries**

**Gender** (Female / Male / Non-binary): On-site (39% / 58% / 0%)  
& Virtual (42% / 54% / 1%)

112 **different countries** for on-site participation; 90 for virtual participation

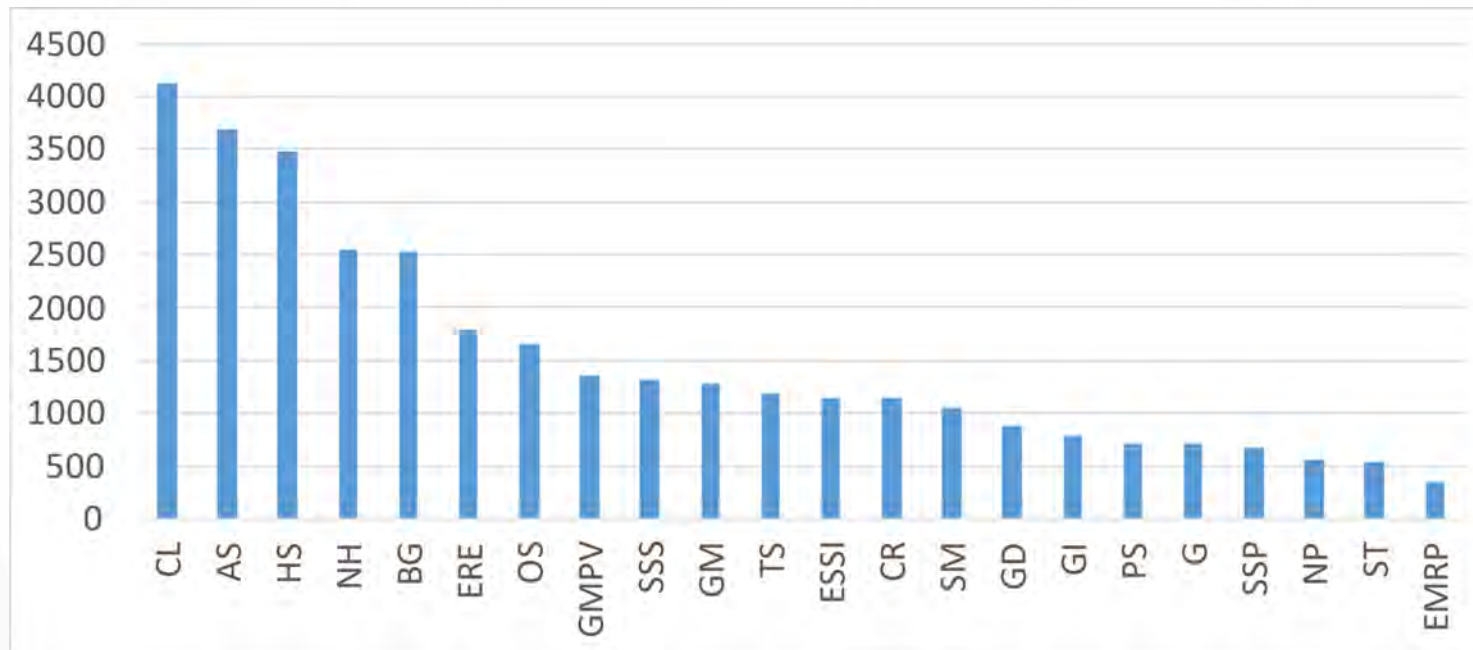


**EGU23 main entrance**  
Photo credit: Pfluegl 2023

## EGU24: numbers at a glance (as of 4 April 2024)

### EGU Division/PG affiliation of paid registrations

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



## EGU24: numbers at a glance (as of 29 March 2024)

**1,025 active sessions** (+11% EGU23):

675 division-led sessions, of which 42 are ITS sessions

17 Education and Outreach Sessions (EOS) + GIFT workshop

61 Short Courses + 2 Artist in Residence workshops

39 Medal and Award Lectures

6 Union Symposia and 10 Great Debates

152 Townhall & Splinter meetings scheduled

**ECS Networking, Science for Policy, and EDI Committee events**



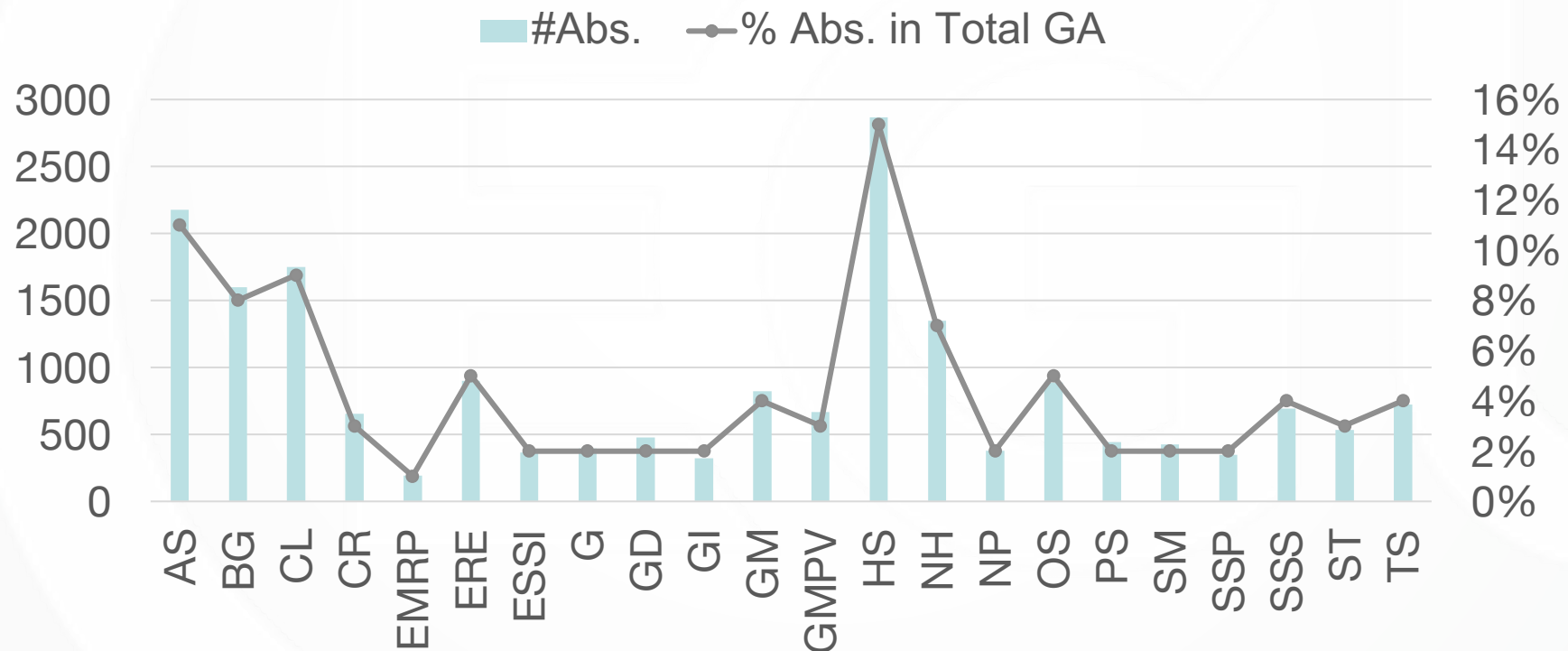
EGU23 oral presentation  
Photo credit: Pfluegl 2023

More on: <https://www.egu24.eu/>



## EGU24: numbers at a glance

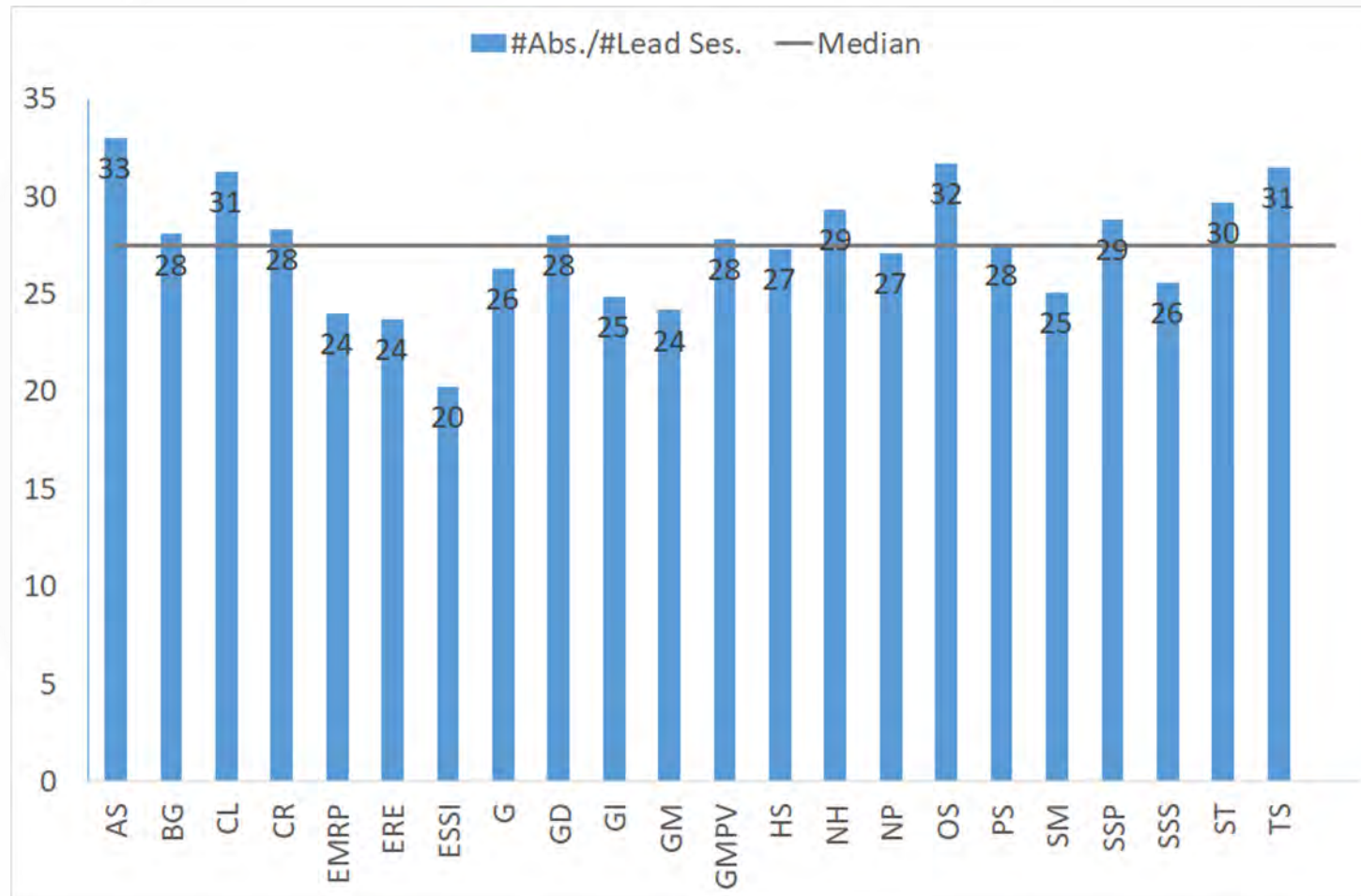
### Abstracts per Programme Group (PG)



(as of 24 March 2024)

## EGU24: numbers at a glance

### Abstracts per (lead) session in each Programme Group



(as of 24 March 2024)

## EMRP 2020-2024

	2020*	2021**	2022***	2023****	2024*****
<b>Lead Sessions (LS)</b>	<b>9</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>8</b>
<b>Abstracts in LS</b>	<b>277</b>	<b>192</b>	<b>156</b>	<b>240</b>	<b>197</b>
<b>Co-organized (CO)</b>	<b>23</b>	<b>19</b>	<b>22</b>	<b>15</b>	<b>18</b>
<b>Abstracts in CO</b>	<b>868</b>	<b>448</b>	<b>574</b>	<b>793</b>	<b>619</b>
<b>EGU Abstracts</b>	<b>18,052</b>	<b>13,982</b>	<b>12,650</b>	<b>16,604</b>	<b>16,604</b>

\*\*Submitted for in person meeting, run all virtual

\*\*\* All virtual

\*\*\*\*Hybrid, all short talks

\*\*\*\*\* Hybrid, oral, poster+pico

\*\*\*\*\* Hybrid, enhanced on-site/online interaction

	2020	2021	2022	2023	2024
EMRP1	40	59	55	106	92
EMRP2	71	77	50	91	42
EMRP3	82	67	52	43	63
Total	193	203	157	240	197
Total GA	18,052	13,982	12,650	16,430	19,255

(as of 24 March 2024)

**EMRP @EGU 2024 (Lead Sessions only)**

- **EMRP 1.2 - Petrophysics, rock physics and processes in geo-reservoirs : integrating models, laboratory experiments and field geophysics across scales**, *Mon, 15 Apr, 8:30-12:30 (Orals, Room K1); Tue, 16 Apr, 10.45-12.30 Hall X2 and 14.00-15.45 virtual vHallX3;*
- **EMRP1.3 - Rock damage and progressive failure in geological and geo-engineering systems: theory, experiments and modeling**, *Wed, 17 Apr, 14:00-15:45 (Orals Room -2.20); Tue, 16 Apr, 14.00-18.00 Hall X2;*
- **EMRP1.6 - Fault deformation across scales: from laboratory observations to numerical simulations**, *Wed, 17 Apr, 16:15-18:00 (Orals Room -2.20); Tue, 16 Apr, 14.00-18.00 Hall X2;*
- **EMRP2.2 - Advances in gravity and magnetic field studies and natural resources exploration**, *Thu, 18 Apr, 14:00-15:45 (Orals Room -2.20); Wed, 17 Apr, 08.30-12.30 Hall X2 and 14.00-15.45 virtual vHallX3;*
- **EMRP2.4 - Electromagnetic Geophysics: Data, Modelling, Interpretations, and Instrumentations**, *Thu, 18 Apr, 16:15-18:00 (Orals Room -2.20); Wed, 17 Apr, 10.45-12.30 Hall X2;*
- **EMRP3.2 - Electromagnetic Geophysics: Data, Modelling, Interpretations, and Instrumentations**, *Fri, 19 Apr, 10:45-12:30 (Orals Room -2.20); Thu, 18 Apr, 08.30-12.30 Hall X2 and 14.00-15.45 virtual vHallX3;*
- **EMRP3.3 - Insights into Geomagnetic Field Variation at Different Time Scales: Data, models and applications with a focus on the South Atlantic Anomaly**, *Fri, 19 Apr, 14:00-15:5 (Orals Room -2.20); Thu, 18 Apr, 10.45-12.30 Hall X2 and 14.00-15.45 virtual vHallX3;*
- **EMRP3.4 - Environmental and Rock Magnetism**, *Fri, 19 Apr, 16:15-17:50 (Orals Room -2.20); Thu, 18 Apr, 10.45-12.30 Hall X2 and 14.00-15.45 virtual vHallX3;*

## EMRP @EGU 2024

1. **MEET THE EMRP DIVISION TEAM** on *Tue, 16 Apr, 13:30-14:00, EGU booth Hall X2*
2. **MEDAL LECTURES:** EMRP Petrus Peregrinus Medal Lecture by Patrick Baud & EMRP Division Outstanding ECS Award Lecture by Sarah Incel on *Tue, 16 Apr, 19:00-20:00 CEST, Room G1*
3. **DIVISION MEETING** on *Wed, 17 Apr, 12:45-13:45 CEST, Room -2.16* (hybrid, we will provide a link using EMRP mailing list the same day of the meeting. To subscribe to the mailing list: <https://www.egu.eu/emrp/home/>)
4. **NETWORKING EVENT** on-site on *Wed, 17 Apr, 20:30 CEST* - Get-together social event. Book your spot here: [https://www.eventbrite.it/e/emrp-egu24-informal-get-together-tickets-879400609897?aff=oddtcreator&keep\\_tld=1](https://www.eventbrite.it/e/emrp-egu24-informal-get-together-tickets-879400609897?aff=oddtcreator&keep_tld=1)

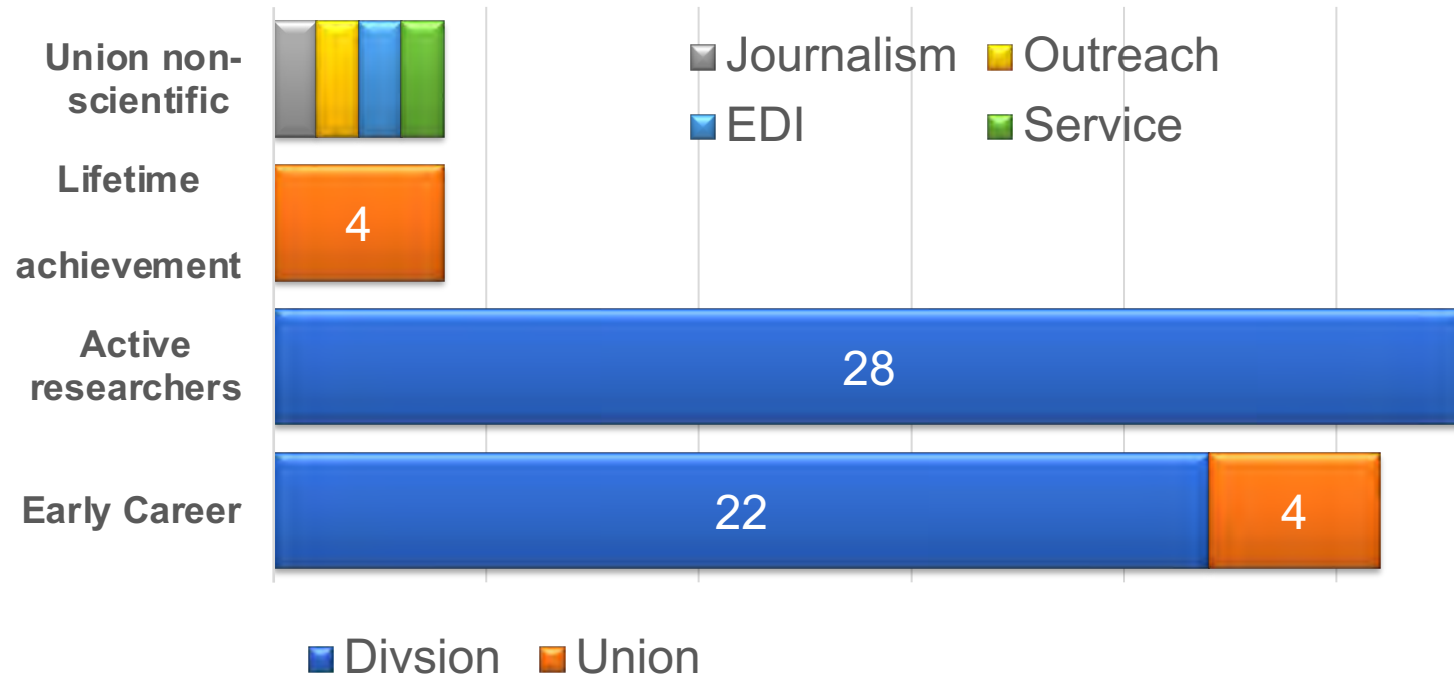
### Other Events for ECS

1. **Earth Magnetism & Rock Physics (EMRP) ECS Picnic** on *Mon, 15 Apr, 12:30-13:30, EGU networking zone - suite C*
2. **ECS Networking Reception** on *Tue, 16 Apr, 18:00-19:30 CEST, Rooftop Foyer*
3. **ECS Forum** on *Thu, 18 Apr, 12:45-13:45 CEST, Room 3.29/30*



# EGU awards & medals

EGU features an extensive awards and medals programme on all career stages



4 **Union Awards** for services for the union, science journalism, outreach, and EDI

4 prestigious **Union Medals**, recognising excellence in scientific research

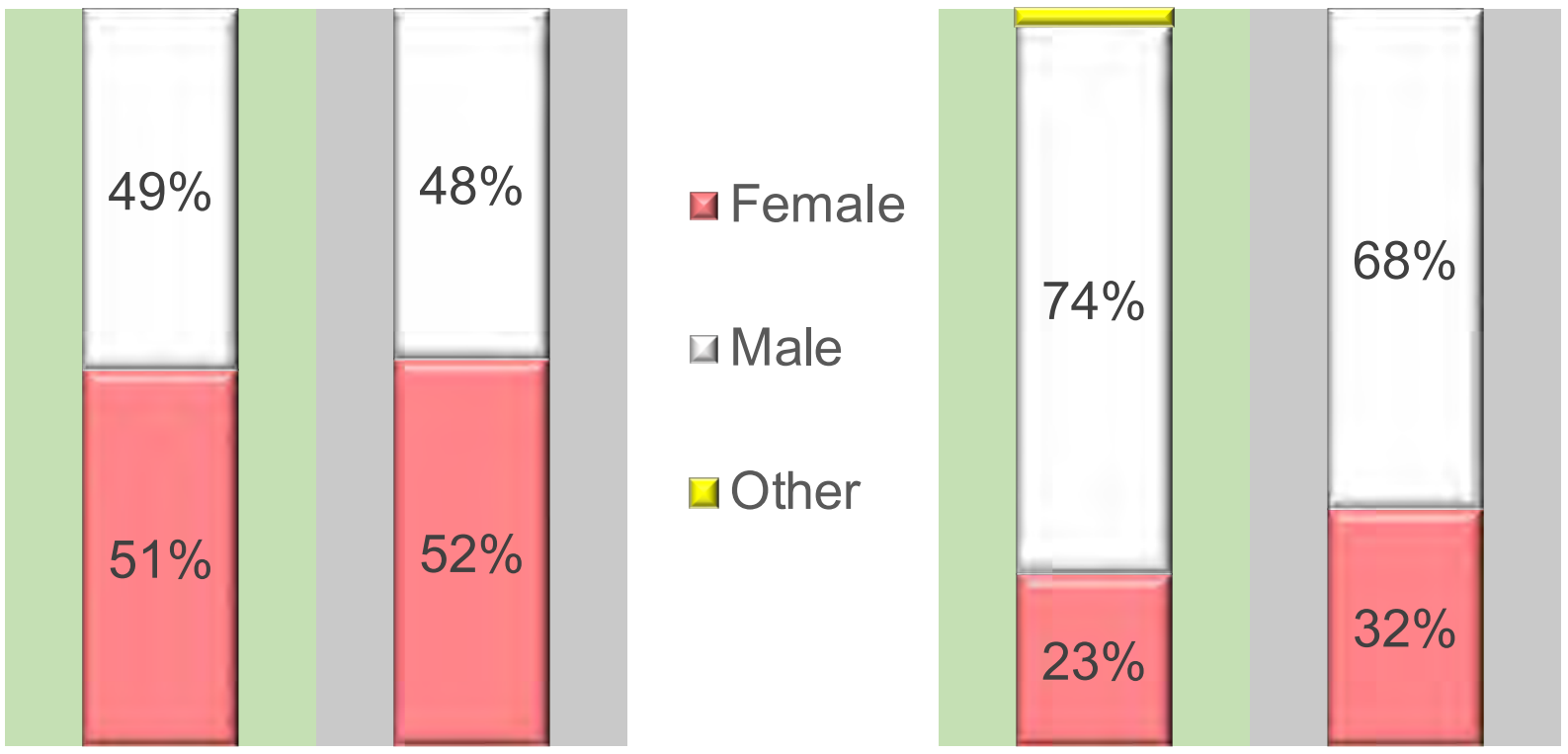
28 **Division Medals**, awarded for significant disciplinary contributions in Earth, planetary and space sciences

4 **Union** and 22 **Division Awards** for Outstanding Early Career Scientists



# EGU awards & medals

## Some statistics for the 2024 awards



Nominations    Awarded  
**Early Career Awards**

Nominations    Awarded  
**Union and Division award**

### More information on awards

EOS3.1  
 Poster EGU24-1620  
**Equality of opportunities in geosciences: The EGU Awards Committee experience**  
 Wed, 17 Apr, 10:45–12:30  
 Hall X1 | X1.63

**Meet the chair of the Awards Committee**  
 Mon, 15 Apr, 17:30–18:00  
 EGU booth – Hall X2

## EMRP Medal Committees, Medalists, Awards



EMRP has two medals running every other year:  
**Petrus Peregrinus and Louis Néel**



### EGU Petrus Peregrinus MEDAL

In recognition of the scientific achievements of Petrus Peregrinus, to be awarded for outstanding scientific contributions in the field of geomagnetism, planetary magnetism and palaeomagnetism (<https://www.egu.eu/awards-medals/petrus-peregrinus/>)

### EGU Louis Néel MEDAL

In recognition of the scientific achievements of Louis Eugène Felix Néel, who shared the 1970 Nobel Prize in Physics for his fundamental research and discoveries concerning antiferromagnetism. This medal is awarded to individuals in recognition of outstanding achievements in rock magnetism, rock physics and geomaterials (<https://www.egu.eu/awards-medals/louis-neel/>).



## The 2024 Louis Néel Medalist



**Patrick Baud**

**The 2024 Louis Néel Medal is awarded to Patrick Baud for his outstanding accomplishments in the mechanics of porous and crystalline rocks, and his leadership and service to the EGU division of Earth Magnetism and Rock Physics.**

***Tue, 16 April, 19:00–19:30 (CEST) - Room G1***

*Our warmest congratulations, Patrick!*

## The 2024 EMRP Division Outstanding Early Career Scientist award



**Sarah Incel**

The Division Outstanding Early Career Scientist Awards (formerly Division Outstanding Young Scientists Awards) recognise scientific achievement made by an Early Career Scientist in the field(s) covered by the related division.

**The 2024 Division Outstanding Early Career Scientist Award is awarded to Sarah Incel for her outstanding research in the field of mineral and rock physics, and her novel understanding of the interplay between mineral phase transformations and the generation of deep earthquakes**

***Tue, 16 April, 19:30–20:00 (CEST) - Room G1***

*Our warmest congratulations, Sarah!*

## **EMRP Medal Committees – rules:**

A least one member of the committee shall be rotated every year.

The committee must have minimum three members and a chair.

### **Who will be rotated:**

- Members who terminated his/her term (4 years maximum)
- Members who wish to step down.
- If none of the above, the longest served or less active member can be rotated.

### **New members:**

- Preferentially past medalists
- Preferentially at least one member who is not a past medallist.
- Consider balance of topical/gender/geographical/age/...

## EMRP Medal Committees, Medalists, Awards

### EGU Louis Néel medal committee 2023 (not active in 2024)

Christopher J. Spiers rotated off

**Chair:** Michael Kosterlitz (replacing Harry Green 2018 medalist, passed away)

**Members:**

Chris Marone (2019 medalist)

Wenlu Zhu (2020 medalist)

David A. Lockner (2022 medalist)



## EMRP Medal Committees, Medalists, Awards

### EGU Petrus Peregrinus MEDAL committee 2024

Catherine Kissel (medalist 2019) rotates off

**Chair:** Zhu Rixiang (medalist 2020)

**Members:**

- Kenneth Kodama (medalist 2021)
- Jonathan Aurnou (not a past medalist)
- Leisa Tauxe (medalist 2023)



## EMRP MEDALS AND AWARDS FOR 2025

- **EGU Louis Néel MEDAL** In recognition of the scientific achievements of Louis Eugène Felix Néel, who shared the 1970 Nobel Prize in Physics for his fundamental research and discoveries concerning antiferromagnetism. This medal is awarded to individuals in recognition of outstanding achievements in rock magnetism, rock physics and geomaterials.
- **Early Career Scientist (ECS)** award in recognition of scientific achievement made by an ECS in EMRP related topics. The receiver can be a student, a PhD candidate, or a practising scientist who received their highest certificate (e.g. BSc, MSc or PhD) within the past seven years. The seven-year period can be extended to allow for periods when the scientist was not working in science because of, but not limited to, caring and/or parental responsibilities, disability, personal illness, community obligations or national service. For the purpose of the awards the nominee should satisfy one of the above criteria by 1 January of the year when the award is presented.



## How to become an awardee?

- Nominations are exclusively by EGU members (**no self nomination**)\*
- Candidates do not need to be EGU members.
- Individual award and medal committees are then evaluating the nominations selecting the most deserving candidate based on **scientific achievements**\*\*.

\* An exception is one award to promote excellence in journalism allowing nominations from non-members and self nominations

\*\* plus one medals each for journalism, outreach and service to the union



## How to nominate

Where: <https://www.egu.eu/awards-medals/nominations/>

When: Deadline is **June 15 every year**

What is required:



	Division and Union medals	Outstanding Early Career Scientists Awards
Nomination letter	1 page	½ page
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 (maximum 1 page each)	-





# **Union Symposium 3**

**Bridging the scales:  
The Arctic methane and  
permafrost challenge**

**Friday 19 April, 8:30–10:15 CEST  
Room E1**

**#EGU2**



# **Union Symposium 4**

## **Deep-time Digital Earth**

**Thursday 18 April, 14:00–18:00 CEST  
Room E1**

**#EGU2**



# Great Debate 2

**Does climate change affect  
earthquake risks?**

**Thursday 18 April, 8:30–10:15 CEST  
Room E1**

**#EGU2**



# Great Debate 4

**Early Warnings for All (EW4ALL)  
Initiative: science needs for the  
global ambition to protect  
everyone by 2027**

**Thursday 18 April, 10:45–12:30 CEST  
Room E1**

**#EGU2**



# Great Debate 6

**If informing is not enough, how should scientists engage to accelerate the social transformation required by climate change and biodiversity collapse?**

**Friday 19 April, 14:00–15:45 CEST  
Room E1**

**#EGU2**



# Great Debate 9

**Artificial Intelligence in scientific publishing: blessing or bane?**

**Friday 19 April, 10:45–12:30 CEST  
Room E1**

**#EGU2**



# **EGU Award & Medal Celebration**

**Wednesday 17 April,  
17:30-19:30 CEST**

**#EGU24**

**Room E1**

# Head on over to the EGU Booth!

**Learn about EGU activities**

**Meet members of the EGU Council & Committees**

**Cast your vote for the photo competition**

**Browse through EGU merchandise... and more!**





## Did you know that we help teachers attend EGU24 for the Geosciences Information for Teachers (GIFT) workshop?

The GIFT programme offers secondary (and primary) school teachers the opportunity to upgrade their knowledge in geoscience themes, shortening the time between state-of-the-art science research and textbook information. This initiative is led by the **EGU Education Committee**.

To learn more, visit  
[www.egu.eu/education](http://www.egu.eu/education)



2019 GIFT Workshop  
Photo credit: Pfluegl 2019

# Art-Science offerings at EGU24

## EGU24 Artists in Residence

visit their booths in Foyer D!

Ilias Tsagas

Poet



Lucía Pérez-Díaz

Illustrator




Mon, Tues, Thurs & Fri  
18:00-20:00 in room E1

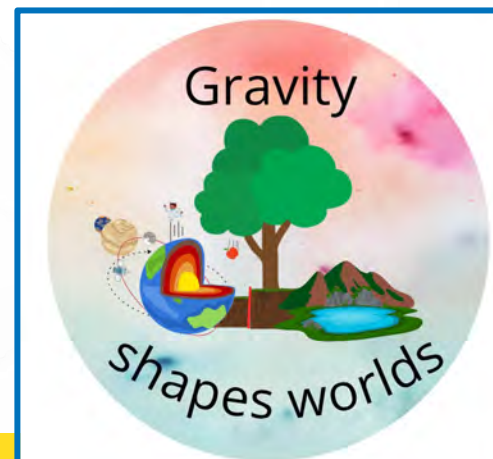
Art-Science sessions at EGU24:



EGU24 artists raising awareness of EDI in the Geosciences

learn more at their booth in **Hall X2!**

**Nkosingiphile Mazibuko**  
Iziko Museums of South Africa

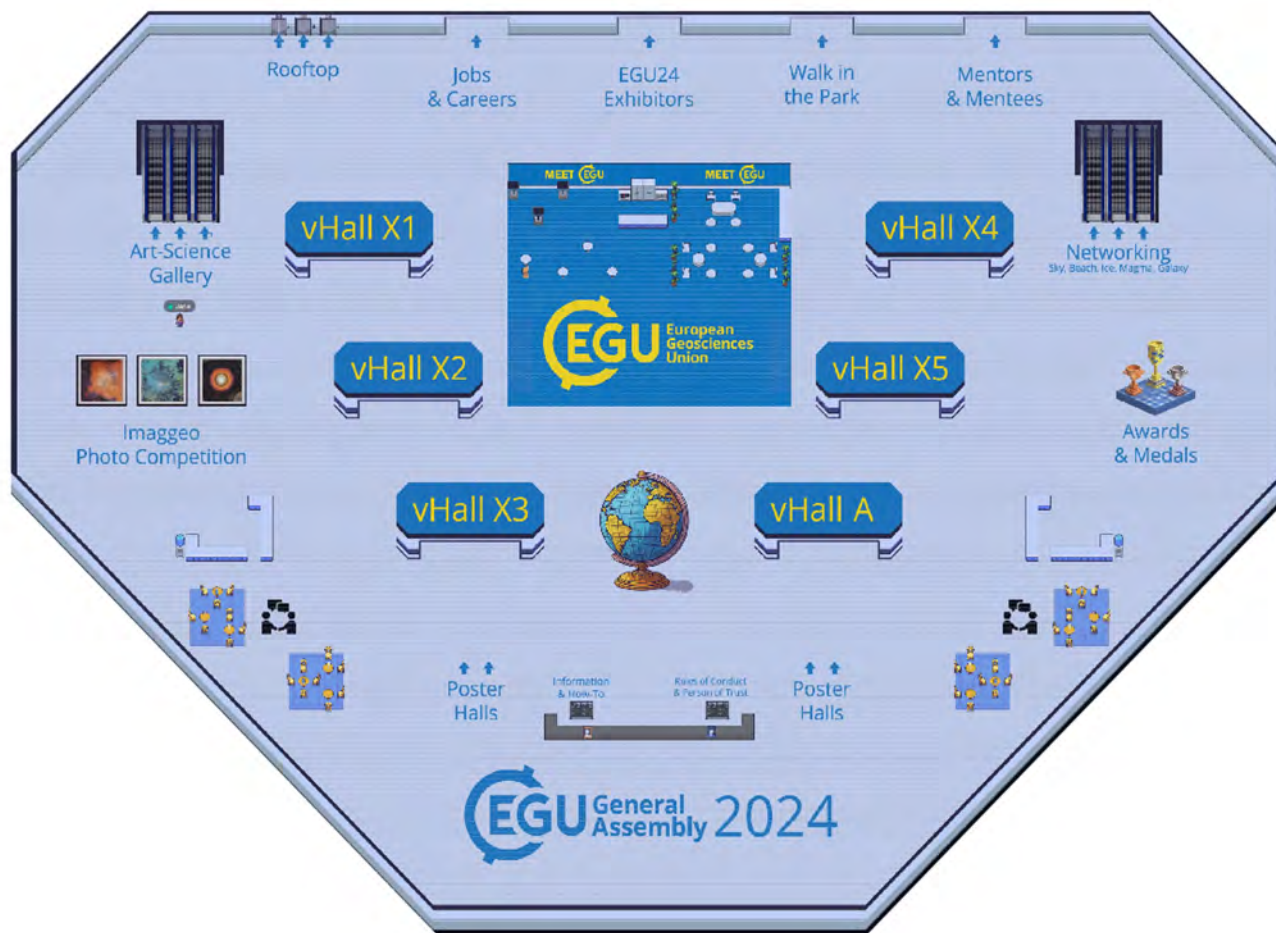


**Childcare Art Exposition** 

growing gallery located in **entrance of Hall X1**

Divisions represented:  
G, GD, PS

# Stop by the EGU24 Gather.Town!



Spatial video-conferencing platform available to all EGU24 registered participants  
Used for **virtual posters** during timeblock 3, networking & more  
Custom design inspired by the Austria Center Vienna!



## Co-sponsored Sessions at the General Assembly

EGU encourages session co-sponsoring **by other colleague organizations** as a means of **strengthening ties and encouraging collaboration**.



The colleague organization must agree to session co-sponsoring and the convener team should be comprised of individuals from both organizations. Note: Session co-sponsoring is expected to be reciprocal (ideally with sessions at meetings of both partners).

Co-sponsoring organizations will be listed in the session subtitle (automatically set by the system):

SM1.3

**The January 1, 2024 Mw7.5 Noto Peninsula, Japan, earthquake, associated tsunami, and earthquake swarm ▶**

Co-organized by NH4, **co-sponsored by JpGU**

Convener: Luca C Malatesta  | Co-convener: Alice-Agnes Gabriel 

▶ **Orals** ★ | Tue, 16 Apr, 08:30–10:15 (CEST)  Room D3



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](http://www.egu.eu/meetings/training-schools)



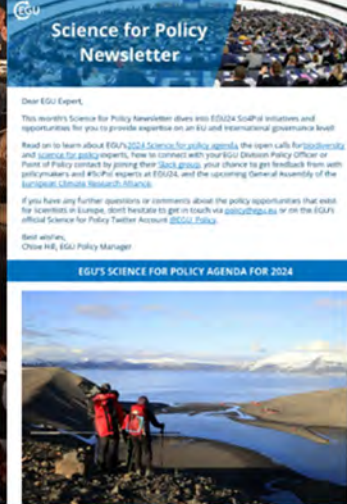


Find out how you can more effectively engage with policymakers and how your research can have policy impact

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

See the full EGU24 Science for Policy Programme





# Subscribe to the EGU's Science for Policy Newsletter!



## EGU Outreach Committee

Consisting of 11 volunteers contributing to the Union through the following aims:

**Training geoscientists in outreach, public engagement, and science communication**

Free online workshops, Education & Outreach Sessions (EOS), Awards lectures...

**Facilitating geoscientists to do outreach and public engagement**

Public Engagement Grants, Geoscience Days, Teacher-Scientist Pairing, EGU Public Lecture...

**Developing relationships between geoscientists and journalists / media**

Science Journalism Fellowship, Angela Croome Award...

**Fostering the mentoring culture across EGU**

Joint with Equality Diversity & Inclusion Committee and Early Career Scientist Representatives

Come to the EGU booth to find out more.



## Union Awards - Outreach

The EGU has several awards celebrating excellent practices that complement purely scientific achievements:

**Angela Croome Award** for Earth, space and planetary sciences journalism

**Champion(s) for Equality, Diversity and Inclusion Award** for significant contributions in advancing the values of EDI in the geoscience community

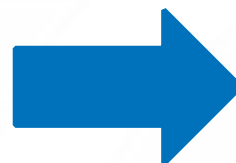
**Katia and Maurice Krafft Award** for Geoscience outreach and engagement

Please **consider nominating** your colleagues / journalists you have worked with who may be worthy recipients of these awards. Attend the Award Lectures to see the excellent practice being celebrated this year.

## Equality, Diversity, and Inclusion (EDI) at EGU24

**NEW:**

Dedicated programme  
category compiling EDI  
sessions of interest!



We are committed to providing a **safe, open, accessible, and respectful General Assembly**, as per the EGU Code of Conduct.

Any behaviour that is disrespectful or violates the Code of Conduct can be **reported to the designated Person(s) of Trust** by emailing **conduct@egu.eu** or on-site, 8:00-17:00 at the **EGU Info Desk (Yellow level Foyer)**

More information available at [https://www.egu24.eu/about/egu\\_general\\_assembly\\_rules\\_of\\_conduct.html](https://www.egu24.eu/about/egu_general_assembly_rules_of_conduct.html)

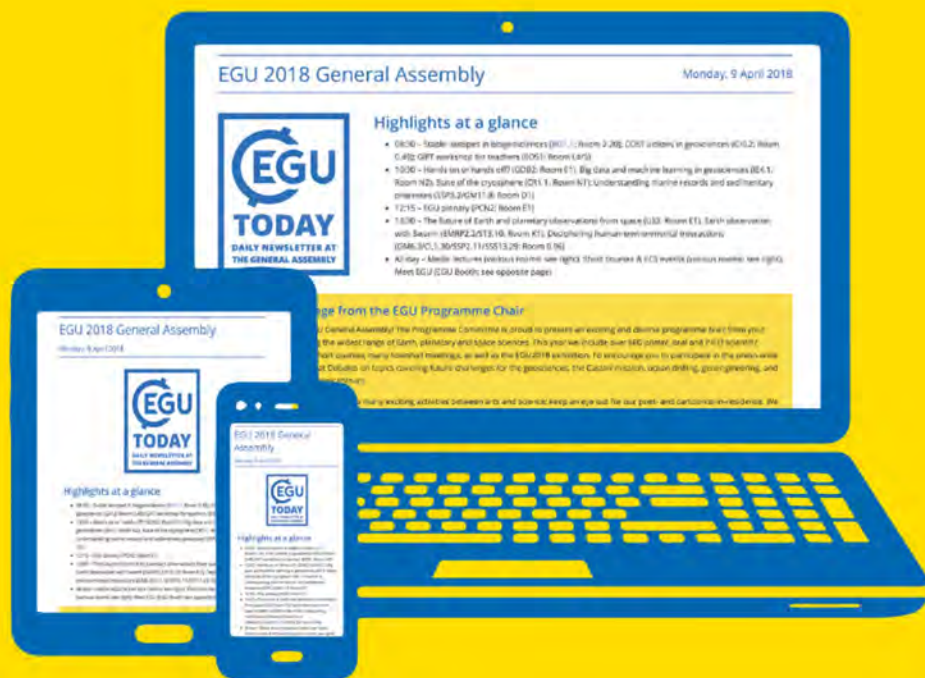


## The Daily Newsletter at the General Assembly

# EGU TODAY IS NOW DIGITAL!



[www.egu.eu](http://www.egu.eu) | [info@egu.eu](mailto:info@egu.eu)



All issues of the newsletter  
will be made available at

[www.egu.eu/egutoday/](http://www.egu.eu/egutoday/)

through the conference app  
and on screens inside the ACV.




EGU 2024  
Participants  
receive a **discount**  
**of 50 % on the**  
**entrance fee**  
if wearing their  
name badge

**50 %  
DISCOUNT**  
April 13  
to 21

The world's  
oldest and largest  
meteorite exhibition  
...and much more!

natural history  
museum vienna 



natural history museum vienna | 1010 Vienna, Maria-Theresien-Platz | [www.nhm.at](http://www.nhm.at) |     
Daily except Tuesday 9 a.m. – 6 p.m., Wednesday 9 a.m. – 8 p.m.

# Did you know the EGU has a monthly newsletter?



[www.egu.eu](http://www.egu.eu) | [info@egu.eu](mailto: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](http://www.egu.eu/newsletter)



# Open Access Publications



- Open Access Journals
- Interactive Public Peer Review



[www.egu.eu/publications](http://www.egu.eu/publications)

# 100% open access and publicly peer reviewed since 2013!

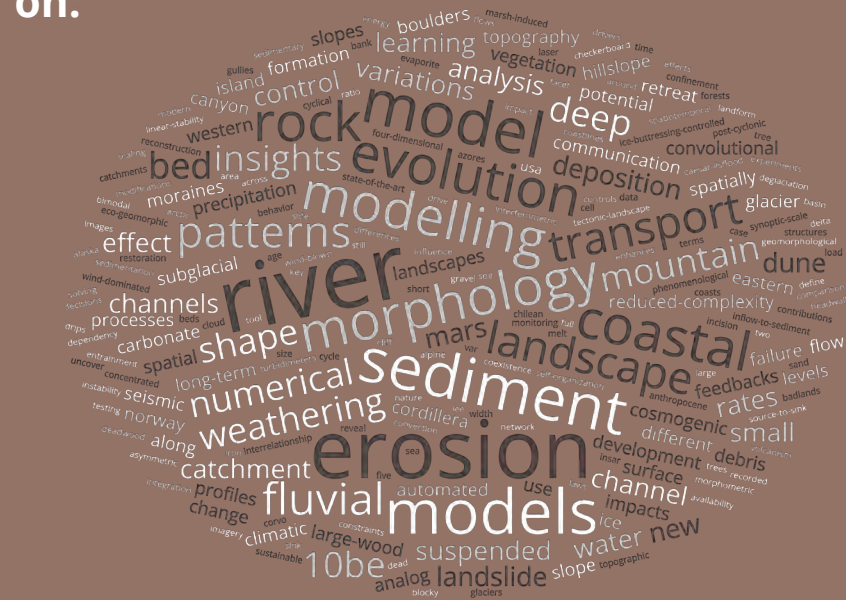
## Earth Surface Dynamics



[www.earth-surface-dynamics.net](http://www.earth-surface-dynamics.net)



A community-driven journal that in 2023\* published extensive, exciting new research on:



"I appreciate the transparent review and editorial process of the EGU journals and Earth Surface Dynamics fit the bill since our paper is quite literally about the dynamics of a small part of the earth's surface."

Lea Hartl, author 2023

[doi.org/10.5194/esurf-11-117-2023](https://doi.org/10.5194/esurf-11-117-2023)

### Key Journal Metrics:

Impact Factor (2022) : **3.4**

5-year Impact Factor (2022): **4.6**

Papers published in 2023: **66**

Number of countries where authors were based in 2023: **27**

Number of countries where editors were based in 2023: **17**



\*The word cloud displayed was generated using all the titles of articles published by the journal in 2023.











**Join the ERE special issue 2024 in Advances in Geosciences (ADGEO)** ([https://www.advances-in-geosciences.net/about/scheduled\\_proceedings.html](https://www.advances-in-geosciences.net/about/scheduled_proceedings.html)).

If you submitted an abstract to an ERE session or a co-organized one for the GA 2024, 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** depend on your home institution and are ca. 36 €/page.

**Submissions** are possible from 20 April **until 30 June 2024**.

([https://www.advances-in-geosciences.net/about/scheduled\\_proceedings.html](https://www.advances-in-geosciences.net/about/scheduled_proceedings.html))

Reviews are done by ERE officers, conveners and authors of the GA 2024.

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](mailto:adgeo.ere.egu@gfz-potsdam.de))



**Please  
Give Us  
Feedback!**

[egu24.eu/feedback](https://egu24.eu/feedback)

## The EMRP Early Career Scientist (ECS) Team

Carolina Giorgetti - ECS EMRP Representative  
Sapienza University, Rome



Nico Bigaroni – ECS EMRP Team member  
Manchester University, UK



Nathalie Casas – ECS EMRP Team member  
Sapienza University, Rome



Liz van Grinsven – ECS EMRP Team member  
Utrecht University, Netherlands



**New Member: Dieke Gerritsen**, München University, Germany

## EMRP ECS Team Activities

Social Media Activities:  
**#ECSpotlight** paper alert  
 once per month

-  EMRPdivision
-  EGU\_EMRP
-  @EGU\_EMRP

Twitter: 933 + 812 views (2 + 1 re-tweet)  
 Facebook: 801 + 32 views (4 + 0 re-post)

Social Media Editor  
 Nico Bigaroni



**EMRP EGU** @EGU\_EMRP · Mar 4  
 📌 March's #ECSpotlight (2/2): Early career paper of the Month!  
 #EarthMagnetism

Do you ever "wander" where the pole is?  
 📌 Check out the answer in this work by Vaes et al.:

[doi.org/10.1016/j.earscv...](https://doi.org/10.1016/j.earscv.2023.100000)

#PaperAlert #EarthScienceReviews #ECS #EMRP

EGU and Elsevier

🗨️ 2 ❤️ 2 📊 933 📌 ⬆️

**EMRP EGU** @EGU\_EMRP · Mar 4  
 📌 March's #ECSpotlight (1/2): Early career paper of the Month!  
 #RockPhysics

Can unconventional singular fields emerge during velocity-dependent frictional weakening?

📌 Check out the experimental work by Paglialunga et al.:

[sciencedirect.com/science/artic...](https://www.sciencedirect.com/science/article/abs/S0022314723000000)

...  
 Show more

EGU and Elsevier

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## EMRP ECS Team Activities

Online Networking Events:  
**Campfire**



## Next Division Campfire!



**Earth Magnetism & Rock Physics** across the scales:  
how can we link laboratory measurements and field observations?

**When?**

Tuesday 16 January 2024  
at 14:00 CEST (UTC +1)

**Where?**

Online!



**Rosa de Boer**  
Utrecht University,  
Netherland



**Martha Kusters**  
Utrecht University,  
Netherland



**Lucas Pimienta**  
Unil Lausanne,  
Switzerland

Campfire Manager  
Nathalie Casas



Campfire Manager  
Liz van Grinsven



## EMRP ECS Team Activities

Online Networking Events:  
**Campfire**

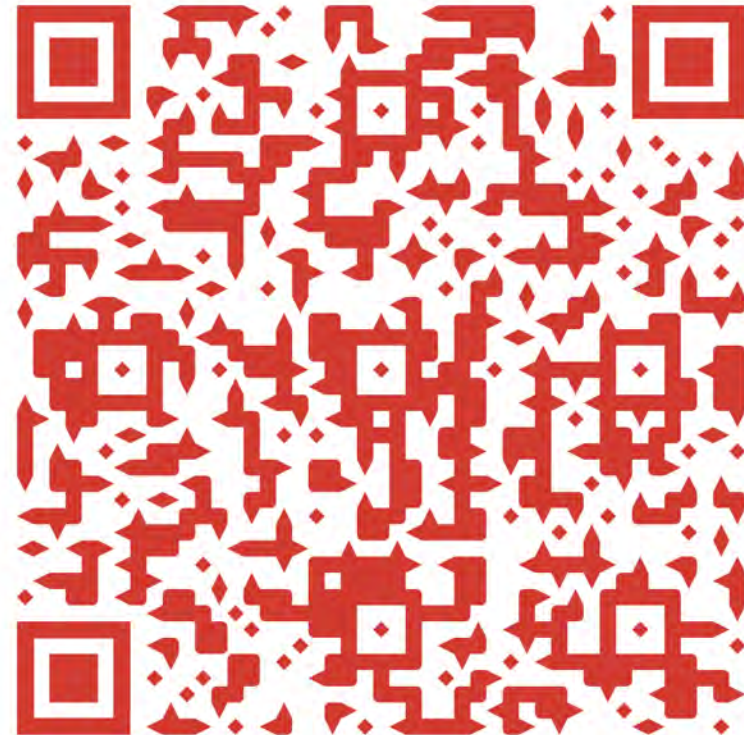
Give us your feedback!

What would you like the next campfire to give feedback on?

Campfire Manager  
Nathalie Casas



Campfire Manager  
Liz van Grinsven





## EMRP ECS Team Activities

Bulletin emails:  
**once each 2/3 months**

Subscribe to our ECS-EMRP mailing list: go to <https://www.egu.eu/emrp/home/> and click on here:

Find EMRP on



Subscribe to

- [EGU newsletter](#)
- [EMRP mailing list](#)
- [EMRP-ECS mailing list](#)

- *#ECSpotlight: 2 Papers, 2 ECS, Every Month!* Each month we showcase 2 papers by ECS of our division on our [Facebook](#) and [Twitter](#) pages. *Our November's and December's #ECSpotlight received almost 2k views on Twitter!*
- We plan to send out a *bulletin email every 2 months* with updates on our activities. We promise not to bother you!
- EGU24 is approaching! Have you submitted an abstract? *If not, the deadline for abstract submission is January 10th!* Submit your abstract [here](#).
- Feel free to reach out to us at [ecs-emrp@egu.eu](mailto:ecs-emrp@egu.eu) if you have any ideas or if you would like to get involved in the ECS activities!

Looking forward to see you at the Campfire, we wish you Merry Christmas and Happy New Year!

Cheers,

*The ECS EMRP team  
Carolina Giorgetti (EMRP ECS Rep)  
Nico Bigaroni  
Nathalie Casas  
Liz van Grinsven*

## EMRP ECS Team Activities at EGU24



### ECS Picnic\*

🕒 12:30

📅 Mon, 15 April

📍 - Group at Foyer X4  
- Picnic at Donaupark,

*\*Bring your own lunch*

 EGU EMRP



### Meet the team

🕒 13:30 - 14:00

📅 Tue, 16 April

📍 EGU Booth Hall X2

 @EGU\_EMRP




### Informal get-together

🕒 20:30 - 23:30

📅 Wed, 17 April

📍 Bierheuriger zum Gangl,  
4 Alser Straße, 1090 Wien

 ecs-emrp@egu.eu

## EMRP ECS Team Activities at EGU24

### [Pop-up networking Event EGU24 Informal EMRP Get-together:](#)

Join our EMRP Division's informal gathering at this EGU24. Connect, share ideas, and strengthen our community! See you there!

AGICO is generously providing a buffet (drinks not included) for the first 40 attendees!

Don't forget to register!

The screenshot shows a registration page for the 'EMRP EGU24 informal get-together' event. At the top, there is a banner with the EGU logo and the text 'Earth Magnetism & Rock Physics'. Below this, it says 'Sponsored by AGICO' with the AGICO logo and 'ADVANCED GEOSCIENCE INSTRUMENTS COMPANY'. A notification bar indicates 'Ticket sales end soon'. The event date is 'Wednesday, April 17'. The event title is 'EMRP EGU24 informal get-together'. A description reads: 'Join our EMRP Division's informal gathering at this EGU24. Connect, share ideas, and strengthen our community! See you there!'. The 'Date and time' section states 'Starts on Wednesday, April 17 · 8:30pm CEST'. The 'Location' section lists 'Bierheuriger zum Gangl, 4 Alser Straße 1090 Wien' with a 'Show map' link. On the right side, there is a ticket selection box for 'Ticket EMRP EGU24 informal get-together' with a quantity of 1 and a 'Reserve a spot' button.

## **OSPP:** Outstanding Student and PhD candidate Presentation contest

### Who can participate?

- first and presenting author
- either currently a BSc or MSc student or PhD candidate
- or last degree obtained in year of GA

### What is evaluated?

- scientific content (relevance, methods, ...)
- presentation (organization, aesthetic appeal, ability to answer questions, ...)

## OSPP: Outstanding Student and PhD candidate Presentation contest

### Who can participate?

- first and presenting author
- either currently a BSc or MSc student or PhD candidate
- or last degree obtained in year of GA

### What is evaluated?

- scientific content (relevance, methods, ...)
- presentation (organization, aesthetic appeal, ability to answer questions, ...)

### Who votes?

- 3 pre-defined judges per participating presentation
- ALL EGU participants (from post-doc level on, not co-author, no shared affiliation) can vote as well on abstract page!
- **We need your help!**

### Why participate?

- Better visibility for your research
- Award certificate and ceremony
- Free open-access publication in one of the EGU journals
- Conference fee waiver for next EGU



**OSPP:** Outstanding Student and PhD candidate Presentation contest

**2023 OSPP**

**EMRP** Earth Magnetism & Rock Physics

The 2023 Outstanding Student and PhD candidate Presentation (OSPP) Award is awarded to Rute Santos for the poster/PICO entitled:

*Realistic estimates of the shield wire effect on the Portuguese power grid* (Santos, R.; Pais, M. A.; Pinheiro, F.; Cardoso, J.; Alves Ribeiro, J.)

Click [here](#) to download the poster/PICO file.

Rute Santos is a PhD student in the Physics Department at the University of Coimbra, Portugal. She is conducting her research under the supervision of Prof. Alexandra Pais from CITEUC and Prof. João Cardoso from LIBPhys. Rute's research primarily focuses on studying the impact of Geomagnetically Induced Currents (GICs) on the power grid and gas pipeline over the Portugal mainland territory. Her work involves enhancing GIC modeling in these systems, developing instrumentation to measure these currents, and also working on a GIC forecast tool. During the EGU 2023 conference, Rute presented her findings on improving GIC calculations by considering shield wires in the power grid model.

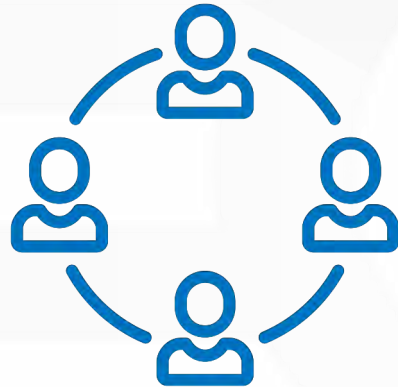


Rute Santos

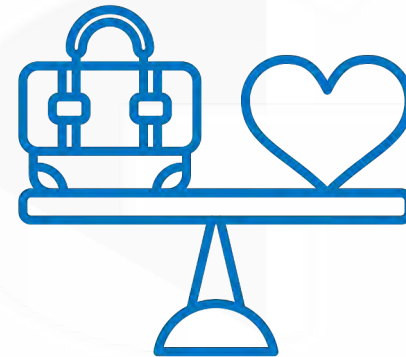
## ECS Representatives — Working Groups



**Activities & Impact**



**Outreach & Communication**



**Life-Career Wellness**



**Equality diversity & Inclusion (EDI)**

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Early Career Scientists | [ecs-egu@egu.eu](mailto:ecs-egu@egu.eu)

## ECS Representatives — Pre-GA Meeting





## Follow us for updates!



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EMRP ECS mailing list



@egu\_emrp

## We are recruiting: WE WANT YOU!

[ecs-emrp@egu.eu](mailto:ecs-emrp@egu.eu)

During the EGU23 use the official hashtag **#EGU24\_EMRP**  
Tag us on Twitter **@EGU\_EMRP**