

EGU Division Meeting Seismology

Alice-Agnes Gabriel and Philippe Jousset
(sm@egu.eu)

EGU General Assembly 2024

- Welcome
- **EGU General Assembly 2024 (<https://egu24.eu/>)**
- Awards & Medals & OSPP Awards
- Structure of the Seismology Division
- Report from the ECS Team
- Update from the Programme Committee
- Code of Conduct
- EGU journals and “Solid Earth”
- Any other business

Seismology events (still upcoming)

» **Scientific sessions**, watch out for daily email:

<https://meetingorganizer.copernicus.org/EGU23/meetingprogramme/SM>

» **Great Debate: Does climate change affect earthquake risks?**

Co-sponsored by JpGU, DGGV, and AGU, Conveners: Mary Antonette Beroya-Eitner, Fabrice Cotton, Kate Nelson

Thu, 18 Apr, 08:30–10:15 (CEST) Room E1

» **Early Career Scientist social dinner (Bier und Bierli, Vienna)**

Wednesday, 19:00

» **Convener's reception (register today)**

Friday, Foyer F, 19:30 – 01:00 am

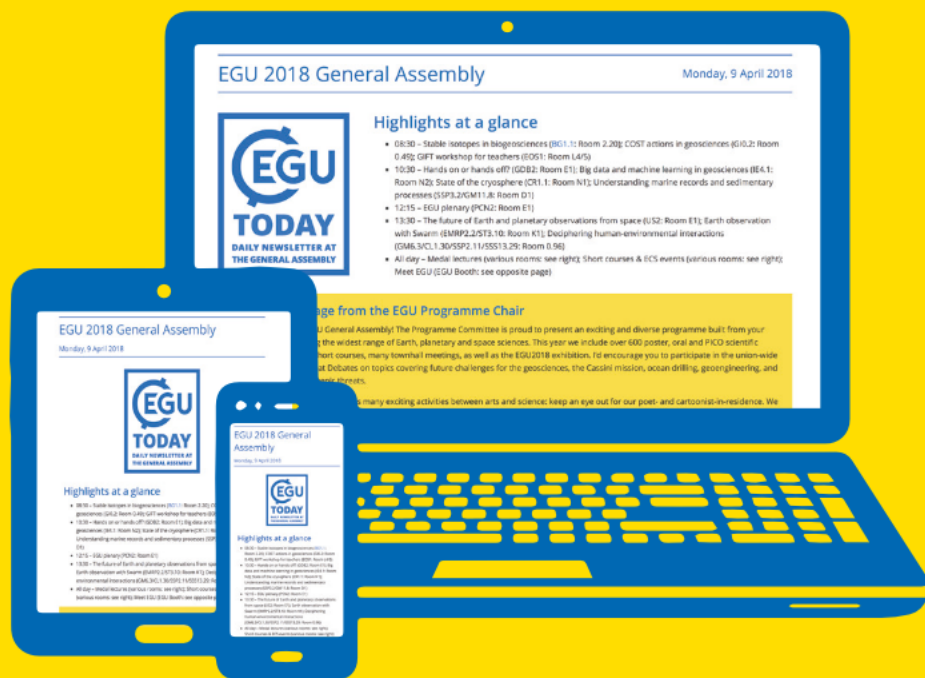


The Daily Newsletter at the General Assembly

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.



Great Debate 2

**Does climate change affect
earthquake risks?**

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

#EGU24

Convenors



MARY
ANTONETTE
BEROYA-
EITNER
GEOHAZARDS
INTERNATIONAL

WITH CO-CHAIRS:



FABRICE COTTON
GFZ GERMAN RESEARCH
CENTRE FOR GEOSCIENCES



KATE NELSON
MCGILL UNIVERSITY

Panelists



JEFFREY
FREYMUELLER
MICHIGAN STATE
UNIVERSITY



ANDREA
HAMPEL
LEIBNIZ
UNIVERSITÄT
HANNOVER



NIELS HOVIUS
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JEAN PAUL
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INSTITUT DE
REHERCHE POUR LE
DÉVELOPPEMENT/
UNIVERSITÉ CÔTE
D'AZUR



CO-SPONSORED
BY:





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**

#EGU24



Great Debate 9

Artificial Intelligence in scientific publishing: blessing or bane?

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

#EGU24



Union Symposium 4

Deep-time Digital Earth

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

#EGU24

Thursday, 18 April

- **GDB7: Unleashing your potential as an Early-Career researcher: bridging the research-policy divide**

Conveners: Helena Martins, Hazel Jeffery, Stefanie Rynders

14:00–15:45 | Room E1

- **NET6: ECS Forum**

Conveners: David Ferrández-Blanco, Daniel Evans, Simon Clark

12:45–13:45 | Room 3.29/30

- **NET9: Geographically Under-Represented Geoscientists' Networking Reception**

Conveners: Stephen Mojzsis, Robyn Pickering, Lisa Wingate, Alberto Montanari, Caroline Stomp

18:00–19:00 | EGU booth

Friday, 18 April

- **SPM94: A Community Discussion of Issues Facing Colleagues from the Global South**
Conveners: Stephen J. Mojzsis, Ruth Phoebe Tchanawandji, Jorgina Akushika
 12:45–13:45 | **Room 2.42**
- **EOS2.4 - Fieldwork - for research and education, from inclusive methods, to utilisation of virtual outcrop models**
Conveners: Florina Roana Schalamon, Michael Henry Stephenson, Maria Ansine Jensen, Hanting Zhong, Jennifer McKinley
 Orals 16:15–18:00 | **Room 1.15/16**
 Posters 10:45–12:30 | **Hall A**
- **EOS3.1 - Promoting and supporting equality, diversity and inclusion in the geosciences, co-sponsored by AGU and JpGU**
Conveners: Claudia Jesus-Rydin, Pallavi Anand, Alberto Montanari, Hori Rie, Billy Williams
 10:45–12:30 | **Room 1.15/16**

A scenic landscape featuring a waterfall cascading over rocks into a pool of water. The background shows a wide, flat expanse under a blue sky with light clouds. A large yellow speech bubble is overlaid on the scene, containing the text 'Please Give Us Feedback!'.

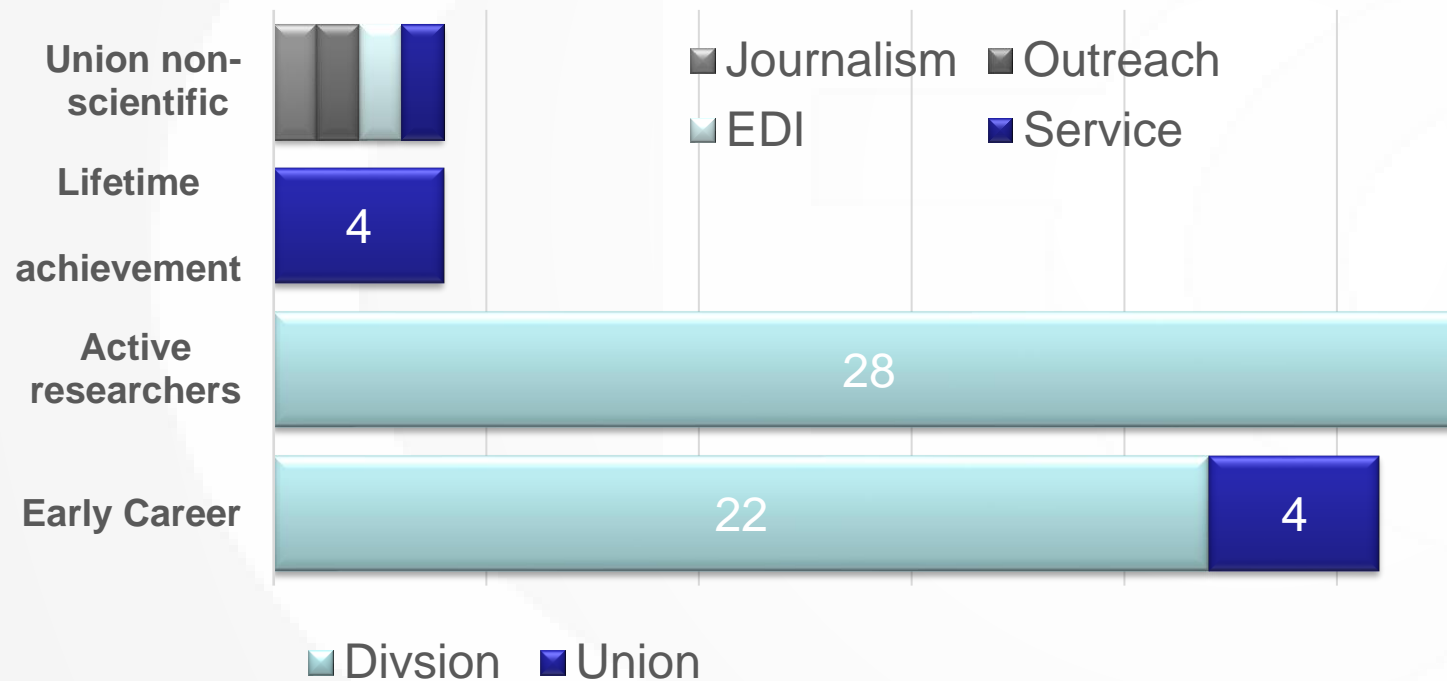
**Please
Give Us
Feedback!**

egu24.eu/feedback

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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



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****.

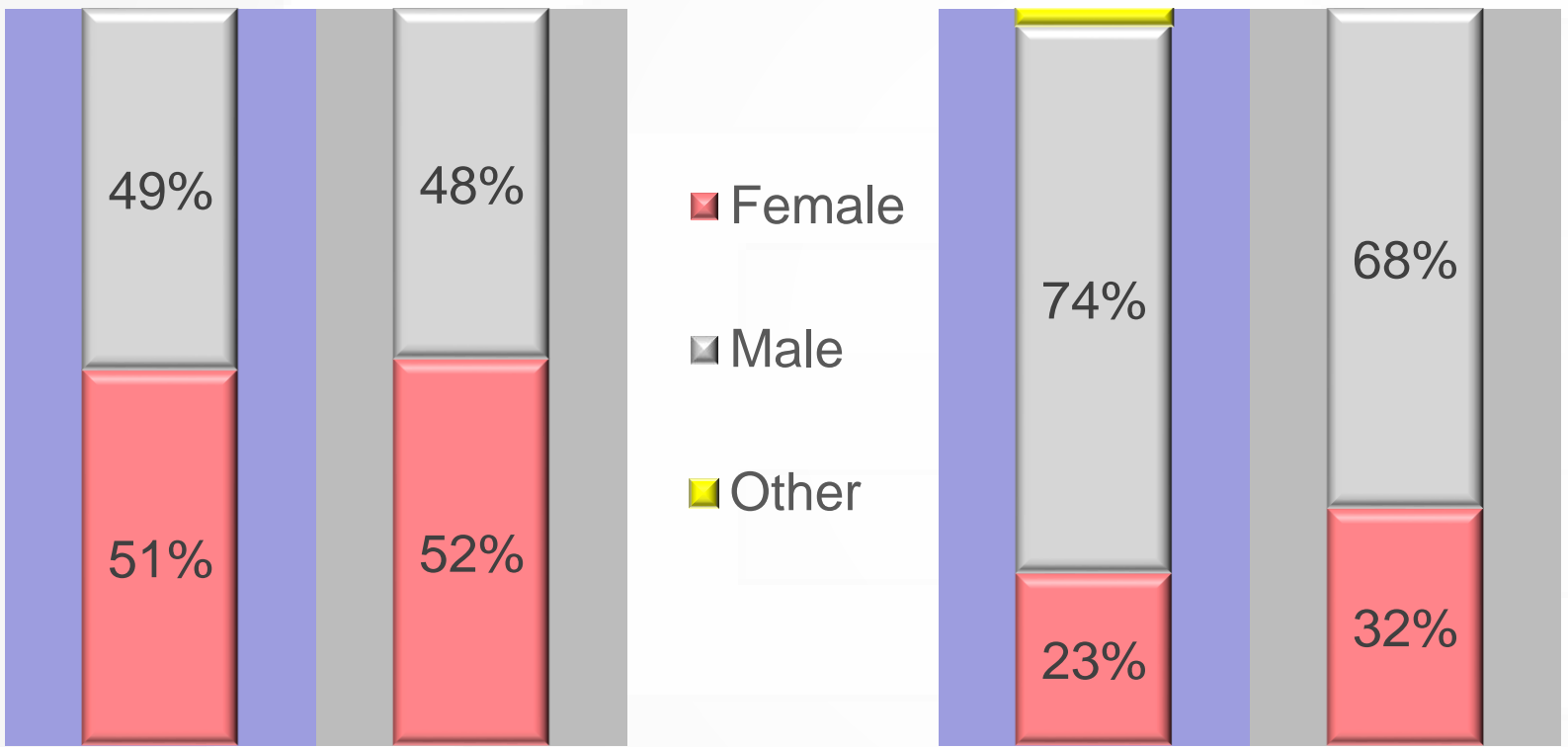
* An exception is one award to promote excellence in journalism allowing nominations from non-members and self nominations

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



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

EGU awards & medals

Equality of opportunities in geosciences: The EGU Awards Committee experience

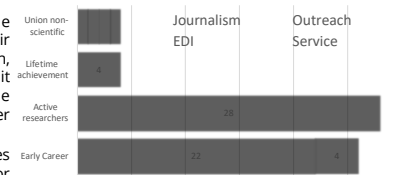
Thomas Blunier, University of Copenhagen

Chair of the EGU Union Awards Committee, awards-medals@egu.eu



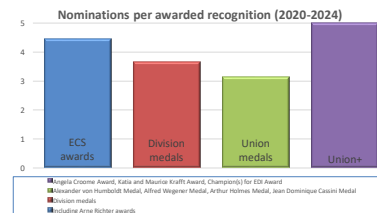
EGU awards & medals programme

- Every year, the EGU awards & medals programme especially recognises eminent scientists for their outstanding research contribution in Earth, planetary, and space sciences. In addition, it identifies the awardees as role models for the next generation of early career scientists to foster geoscience research.
- The EGU awards & medals programme features Union medals, the most prestigious awards, for life-time achievements or exceptional contributions to science as well as Union awards, such as the Arne Richter Award for Outstanding Early Career Scientists which recognises scientific achievements at an early career stage.
- At the Division level, the EGU awards various medals for active scientists, as well as the Division Outstanding Early Career Scientists Awards (O ECS). The list of all recipients of EGU awards and medals, including Union, Division and General Assembly awards, is available in the EGU web pages: <https://www.egu.eu/awards-medals/>.



- 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

Nomination statistics



Who can nominate?
There is no awards nomination committee in EGU. Following the bottom-up structure of the union, all nominations for scientific achievements originate from **EGU members**, where self-nominations are excluded*.

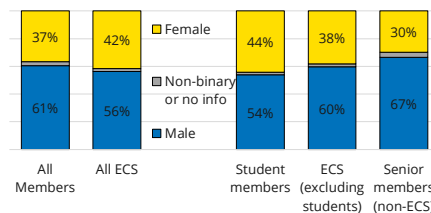
* An exception is the Angela Croome Award for Earth, space and planetary sciences journalism. Here also nominations by non-EGU-members and self-nominations are possible.

On average EGU is getting three to four nominations per awarded recognition. However, some awards receive low number of nominations.

EGU Community

Average 2021 to 2023

- Across all memberships, only 37% of EGU members are female.
- Gender is more balanced among younger EGU members. From students to senior members the female fraction drops from 44% to 30%.

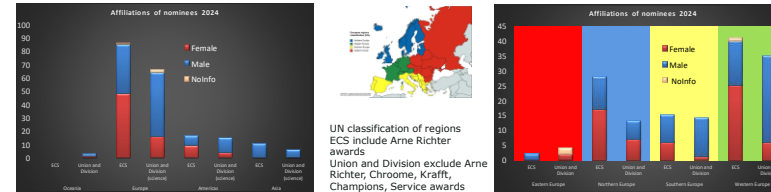


Women among nominees & medallists (2020-2024)



- In recent years, the fraction of nominations and awards obtained by women for O ECS, exceeds the fraction of female ECS members.
- For division and union awards the fraction of nominations for women is below the fraction of female members. This could be because nominations for these prestigious awards are tendentially for older members, and there are fewer women as members get older.
- The fraction of awards to women in past years generally exceeds the fraction of nomination.

Where do our nominees come from?



- Nominations are mostly for people affiliated with European institutes
- There is a lack of nominations for people affiliated with Eastern European institutes.

Concluding Remarks

- While some awards obtain low numbers of nominations, EGU generally receives three to four nominations per awarded recognition.
- 61% of EGU members are male, where gender is more balanced among younger members.
- Considering the declining percentage of female members as they age, the proportion of nominations for women currently aligns with membership demographics.
- The fraction of awards to women in past years exceeds the fraction of nominations.
- Most nominees are affiliated with European institutes.
- Among the European nominees the majority is affiliated to western European institutes.
- Nominations for scientists affiliated with Eastern European institutes are a minority.

Given the bottom-up structure of EGU and awards and medals in EGU it is in the hands of the EGU-community to enhance diversity and equal opportunities for awards and medals by nominating deserving candidates from underrepresented groups.

Nominations for all medals and awards are to be submitted online by **15 June** of each year. Check the EGU web pages for further information: <https://www.egu.eu/awards-medals/nominations/>



Outstanding Early Career Scientist Award Lecture 2024

The 2024 Outstanding Early Career Scientist Award is awarded to **Dr. Stephen P. Hicks (UCL)**, for exceptional contributions to seismology, including innovative seismic imaging techniques, studies of earthquake processes as well as Earth structure, science communication and community building.



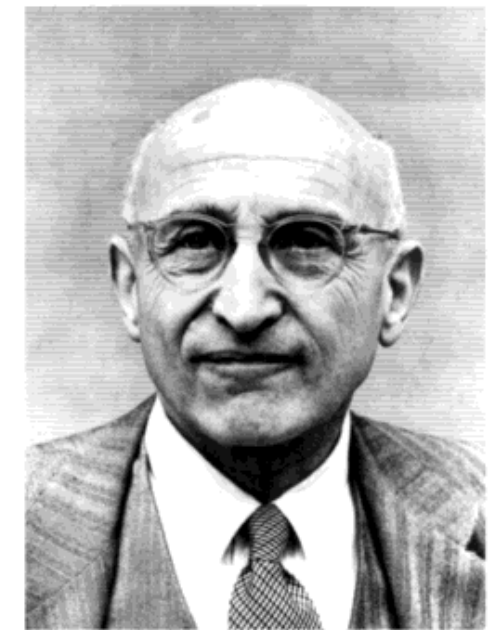
Dr. Stephen P. Hicks

Beno Gutenberg Medal 2024

The 2024 Beno Gutenberg Medal is awarded to **Dr. Jaroslava Plomerová** for contributions to the development of sophisticated methodologies in the characterisation of anisotropic domains in the upper mantle, and their application to imaging of the lithosphere in Europe.



Dr. Jaroslava Plomerová



Courtesy of the California Institute of Technology Archives, Pasadena

Beno Gutenberg.



EGU awards & medals

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	5000 characters (including spaces)	2500 characters (including spaces)
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 5000 characters (including spaces)	None (multiple nominators possible)

Nomination and supporting letters via on-line form



EGU awards & medals

How to nominate

Where: <https://www.egu.eu/awards/>

When: **Deadline is**

**Nomination Deadline
June 15**

What is required:



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How to

Where

When:

What is re



Nomination Deadline – June 15

nations/

g Early Career
wards

acters (including
spaces)

1 page

½ page

None

(multiple nominators
possible)

characters
(including spaces)

Nomination and supporting letters via on-line form

Thank you to the Beno Gutenberg Medal – Committee **2024**

The Committee for the Beno Gutenberg Medal 2024 is composed of the last five medalists who have been awarded the Beno Gutenberg Medal
There must be a non-medalist: proposal former Seismology Division President

2022



Yehuda Ben-Zion

2021



Malcolm Sambridge

2003



Barbara Romanovicz

(chair)

Non-medalist



Philippe Jousset

<http://www.egu.eu/awards-medals/beno-gutenberg/>

<http://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>



Beno Gutenberg Medal – Committee for the **medal 2025 (vote)**

The Committee for the Beno Gutenberg Medal 2024 is composed of the last five medalists who have been awarded the Beno Gutenberg Medal
There must be a non-medalist: proposal former Seismology Division President

2024



Jaroslava Plomerová

2022



Yehuda Ben-Zion

2021



Malcolm Sambridge

Non-medalist



Philippe Jousset



<http://www.egu.eu/awards-medals/beno-gutenberg/>

<http://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>

Thank you to the ECS Award Committee **2024!**



Alice-Agnes Gabriel



Eva Eibl



Caroline Eakin

ECS Award Committee 2025 (vote)

- Division President
- The 2 past awardees



Alice-Agnes Gabriel



Caroline Eakin



Stephen P. Hicks

Early Career Scientist

- » An Early Career Scientist (ECS) is a student, a PhD candidate, or a practicing 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.

<https://www.egu.eu/awards-medals/ecs-definition/>

Outstanding Student and PhD candidate Presentation (OSPP) Awards

ETH zürich



Enhancement of Seismic Phase Identification using Polarization Filtering and Array Analysis

Angel Ling (angel.ling@erdw.ethz.ch), Simon C. Stähler, David Sollberger, and Domenico Giardini
Seismology and Geodynamics Group, ETH Zürich



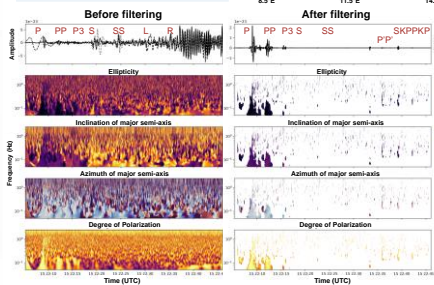
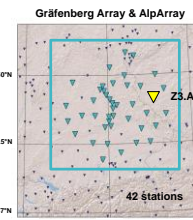
Objective

Examine whether the combination of polarization filtering in time-frequency domain with conventional array analysis can further increase the signal-to-noise ratio of coherent signals in a seismic waveform, allowing more robust phase identification and extraction.



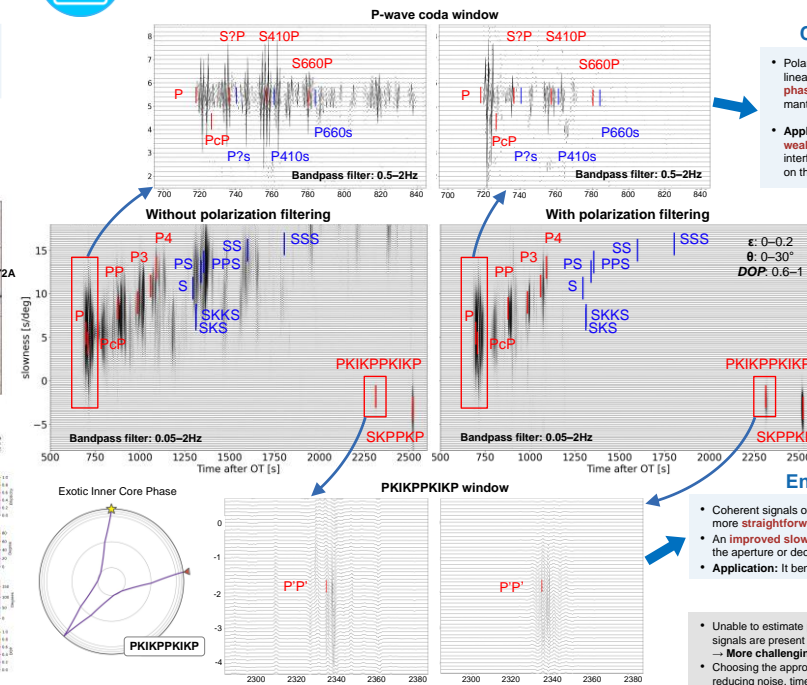
Methods

- Step1: Perform polarization analysis and filtering in the f - T domain using S-transform powered by TwistPy (Sollberger, D et al., 2023).
- Filters are designed based on polarization attributes: ellipticity (ϵ), inclination (θ) and azimuth of the major semi-axis (ϕ), and the "degree of polarization" (DOP).
- Step2: Compute 4th root vespectrams. Elevation corrections are applied for beamforming.



Example Event

2018/08/15 Alaska $M_w 6.5$
Depth 33.9km, Distance 79.2°, BAZ 6.2°



Discussion

Coherent Noise Suppression

- Polarization filters for waves with high inclination and linearity help recover some of the weak converted phases (esp. source-side conversions) at the upper mantle discontinuities buried in the long P-wave coda.
- Application: It allows the observation and study of weak SV-signals resulted from conversion at interfaces with strong impedance contrasts (e.g., slabs) on the vertical component.

Wavefield Separation

- Using customized polarization filters can isolate more specific wave types and study them individually.
- Application: These wavefield-separated vespectrams are significantly easier to identify different type of phases and can be used for pick refinements and identification of weak phases that are usually hard to find in single seismograms.

Enhancement of Weak Phases

- Coherent signals of the main arrival are enhanced which leads to a more straightforward extraction of weak phases.
- An improved slowness resolution is achieved without increasing the aperture or decreasing the inter-station spacing of the array.
- Application: It benefits the remote areas without large/dense arrays.

Limitations

- Unable to estimate polarization properties accurately when overlapping signals are present in the same analysis window.
 - More challenging for analyzing local/regional events
- Choosing the appropriate polarization filter involves a trade-off of reducing noise, time resolution, or preserving the desired signals.
- Accuracy of polarization analysis is highly dependent on the quality of data and choice of analysis window length.

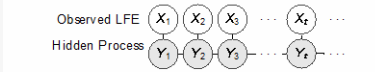
Spatiotemporal Variation in Low Frequency Earthquake Recurrence on the San Andreas Fault
 Jessica Allen (alj6331@udent.dtago.ac.nz) and Ting Wang
 Department of Mathematics and Statistics, University of Otago

1. Motivation and Objectives

- LFEs: low-frequency (1-10 Hz) earthquakes with small magnitudes.
- Occur adjacent to major faults in overlapping sequence forming persistent seismic tremors [4], associated with slow slip events in the phenomenon of episodic tremor and slip (e.g. [1],[2]).
- High occurrence rate and comprehensive detection of LFEs enables insights regarding more elusive earthquake processes along plate boundaries.
- We examine the recurrence patterns displayed by the 88 LFE families that are grouped at distinct generating locations adjacent to the San Andreas fault, and how these are affected by large earthquakes.
- We model activity migration between generating locations on the fault.

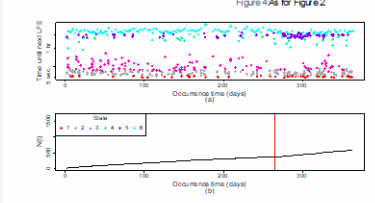
2. Hidden Markov Models

- Describe underlying geological mechanisms with discrete time Markov chain $\{Y_t, t = 1, 2, \dots\}$, satisfying first-order dependence $P(Y_t = i, \dots, Y_1) = P(Y_t = i | Y_{t-1})$.
- Hidden states Y_t take values from $i = 1, \dots, m$ (m state HMM).
- Time between LFE events $X_t (t = 1, 2, \dots)$ depends only on current Y_t .



3. Recurrence Pattern of Continuous Events

- Progression - High transition to intermediate activity (states 2 and 3) and high transition to quiescence (state 0).
- Relatively constant activity rates, less impacted by slip movement?



4. Patterns of Activity Migration

- Probability of transitions in continuous time between generating locations.
- Grouped using hierarchical agglomerative clustering (Mantel test, $|t_1 - t_2|$) to identify locations with high interaction.



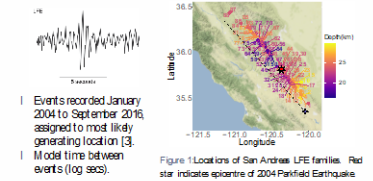
5. Conclusions

- Differences in recurrence behaviour between LFE locations provide insights regarding fault structure and the direction propagation of slow slip.
- Clustering methods summarises patterns (more complex than linear transition) in the migration of activity between spatially distinct generating locations.

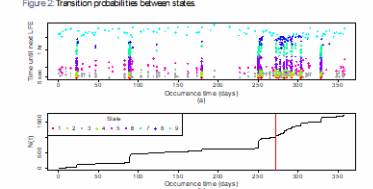
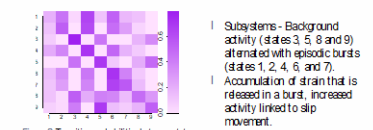
6. References

[1] G. Rogers and H. Dragert. Science, 300:1942–1943, 2003.
 [2] K. Obara. Journal of Geodynamics, 52:223–243, 2011.
 [3] D. R. Shelly. Journal of Geophysical Research: Solid Earth, 122:3739–3763, 2017.
 [4] M. Suzuki, N. Patai, G. Festa, J. P. Villette, C. Satriano, and K. Obara. Scientific Reports, 10(6523), 2020.

2. San Andreas LFE Data



3. Recurrence Pattern of Episodic Events



6. Acknowledgment

The authors wish to acknowledge the use of New Zealand eScience Infrastructure (NeSI) high performance computing facilities and consulting support as part of this research. URL: https://www.nesi.org.nz
 Jessica Allen is grateful supported by the Fanny Evans Postgraduate Scholarship for Women.

SM Seismology

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

Spatiotemporal Variation in Low Frequency Earthquake Recurrence on the San Andreas Fault (Allen, J.; Wang, T.)

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

Jessica Allen is a PhD student at the University of Otago in Dunedin, New Zealand. She works under the supervision of Ting Wang and Mark Bebbington applying statistical methods to seismological contexts, with a particular focus on problems regarding event detection and unobservable processes.

The research she presented at EGU23 explores the recurrence of low frequency earthquakes (LFEs) recorded along the San Andreas Fault using hidden Markov models and clustering methods. These techniques reveal additional details regarding the occurrence patterns and properties of LFEs, and findings support the development of methods for the more challenging detection and modelling of associated slow slip events. During this research Jessica was supported by a Fanny Evans scholarship.

Jessica is now working on the detection of seismic swarms in the Hikurangi subduction zone of New Zealand using 3 dimensional hidden Markov models and Epidemic Type Aftershock Sequence models. This is part of a larger project funded by an MBIE Smart Ideas grant to forecast future megaquakes in New Zealand. She also receives a University of Otago PhD scholarship.



Jessica Allen

SM Seismology

The 2023 Outstanding Student and PhD candidate Presentation (OSPP) Award is awarded to On Ki Angel Ling for the poster/PICO entitled:

Enhancement of Seismic Phase Identification using Polarization Filtering and Array Analysis (Ling, O. K. A.; Stähler, S. C.; Sollberger, D.; Giardini, D.)

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

Angel Ling is a Ph.D. student at the Institute of Geophysics at ETH Zürich, Switzerland, working under the supervision of Prof. Domenico Giardini and Dr. Simon Stähler. Her research explores and evaluates the capability of large seismic networks in combination with various array analysis methods for studying the deep Earth, with a specific focus on the AlpArray Seismic Network.

The research presented at EGU23 aims to improve the accuracy in identifying teleseismic phases using seismic networks and extracting detailed information, allowing for probing the depths of the Earth. She and her collaborators investigate the impacts of implementing advanced three-component polarization filtering in the time-frequency domain before applying conventional stacking to the data recorded by AlpArray. This investigation highlights the advantages and effectiveness of this approach in suppressing shear and surface waves and enhancing the SNR of phases from the deep mantle and core. This allows the identification of weaker teleseismic phases, such as converted phases and PKIKPPKIKP in earthquakes of magnitude 6-7. The results also show that the polarization filter design has to be adapted to specific applications.



On Ki Angel Ling

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SM SEISMOLOGY

EGU is a bottom-up organisation, and we – as a division – are rather flexible on how to organize ourselves

[Home](#) / [About](#) / [Structure](#)

Site search



President	Alice-Agnes Gabriel 
Deputy President	Philippe Jousset 
Programme Group Chair	Alice-Agnes Gabriel 
Science Officers	Heiner Igel  Computational & Theoretical Seismology
	Philippe Jousset  Crustal Fluids and Seismic Activity (incl. induced & triggered seismicity, volcano seismology)
	Henriette Sudhaus  Deformation, Faulting and Earthquake Processes (incl. seismotectonics, geodynamics, earthquake source physics)
	Paul Martin Mai  Deformation, Faulting and Earthquake Processes (incl. seismotectonics, geodynamics, earthquake source physics)
	Fabrice Cotton  Engineering Seismology and Seismic Hazard
	Aldo Zollo  Real-Time Seismology and Early Warning
	Cédric Schmelzbach  Seismic Imaging Across Scales (from near-surface to global scale, incl. methodological developments)
	Lapo Boschi  Seismic Imaging Across Scales (from near-surface to global scale, incl. methodological developments)
Damiano Pesaresi  Seismic Instrumentation & Infrastructure	

President

(2023-2025; 2025-2027)



Alice-Agnes Gabriel

Deputy President

(2023, 04/2024 – 04/205 (vote))












Philippe Jousset

Science Officers

New addition (**vote**):









Luca de Siena (Seismic imaging, seismic scattering and computational seismology)



<p>Heiner Igel </p> <p>Computational & Theoretical Seismology</p>
<p>Philippe Jousset </p> <p>Crustal Fluids and Seismic Activity (incl. induced & triggered seismicity, volcano seismology)</p>
<p>Henriette Sudhaus </p> <p>Deformation, Faulting and Earthquake Processes (incl. seismotectonics, geodynamics, earthquake source physics)</p>
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<p>Fabrice Cotton </p> <p>Engineering Seismology and Seismic Hazard</p>
<p>Aldo Zollo </p> <p>Real-Time Seismology and Early Warning</p>
<p>Cédric Schmelzbach </p> <p>Seismic Imaging Across Scales (from near-surface to global scale, incl. methodological developments)</p>
<p>Lapo Boschi </p> <p>Seismic Imaging Across Scales (from near-surface to global scale, incl. methodological developments)</p>
<p>Damiano Pesaresi </p> <p>Seismic Instrumentation & Infrastructure</p>

Structure of our Division

ECS representative

ECS Representative	Dinko Sindija 
ECS Co-Representatives	Andreas Brotzer  Blog Editor
	Matthew Kemp  Blog Editor
	Chiara Civiero  Blog Writer
	Janneke de Laat  Facebook Manager
	Angel Ling  Instagram Manager
	Maria Tsekhmistrenko  Seismology 101
	Eric Löberich  Twitter Manager & Job hunter

<https://www.egu.eu/sm/structure>

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- Awards & Medals & OSPP Awards
- Structure of the Seismology Division
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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



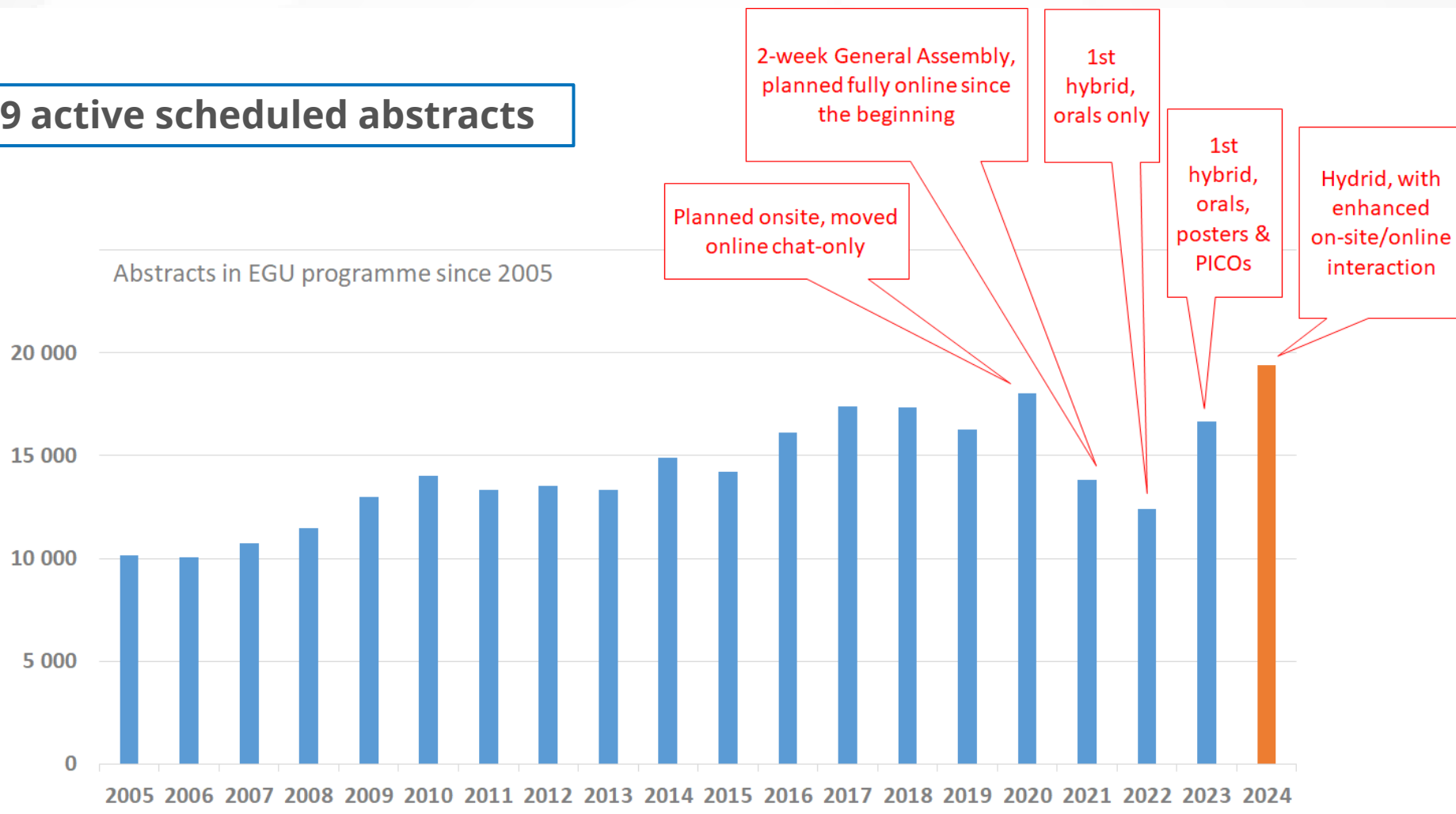
Jane Roussak

EVENTS MANAGER

https://egu24.eu/about/programme_committee_composition.html

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



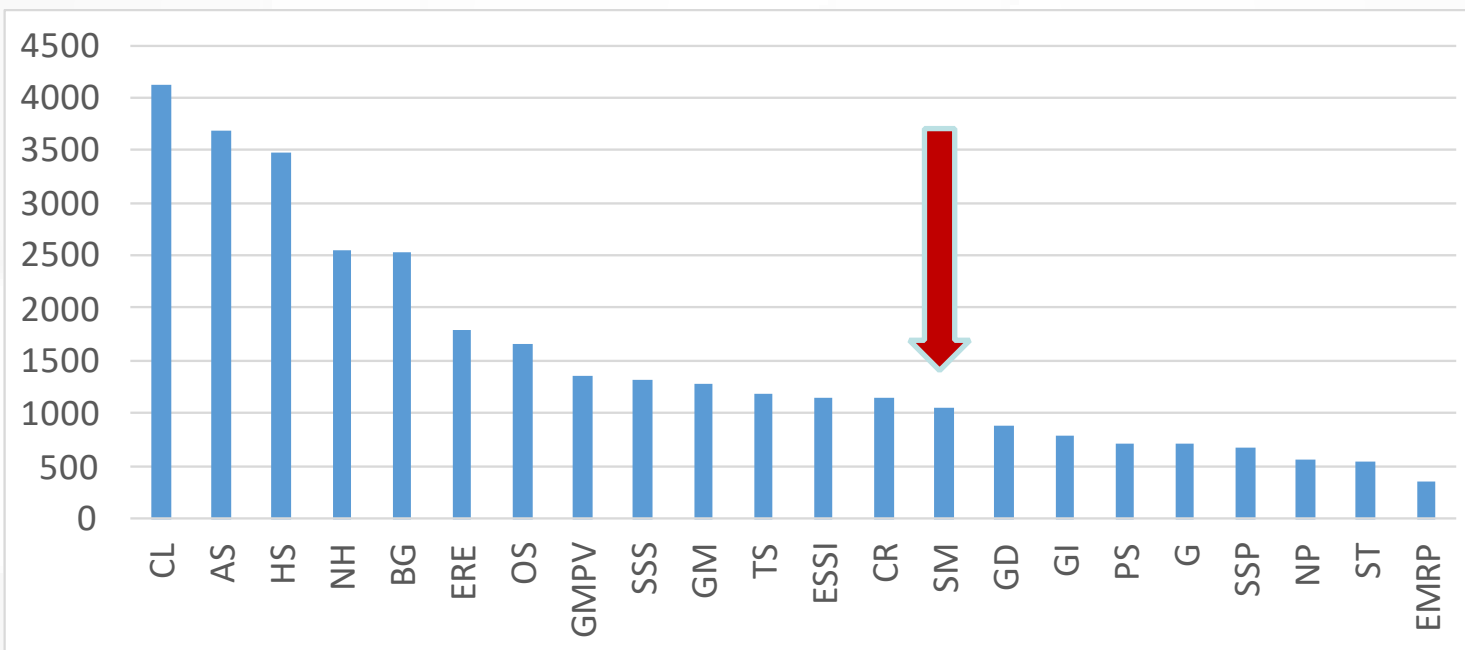
EGU23 main entrance

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**

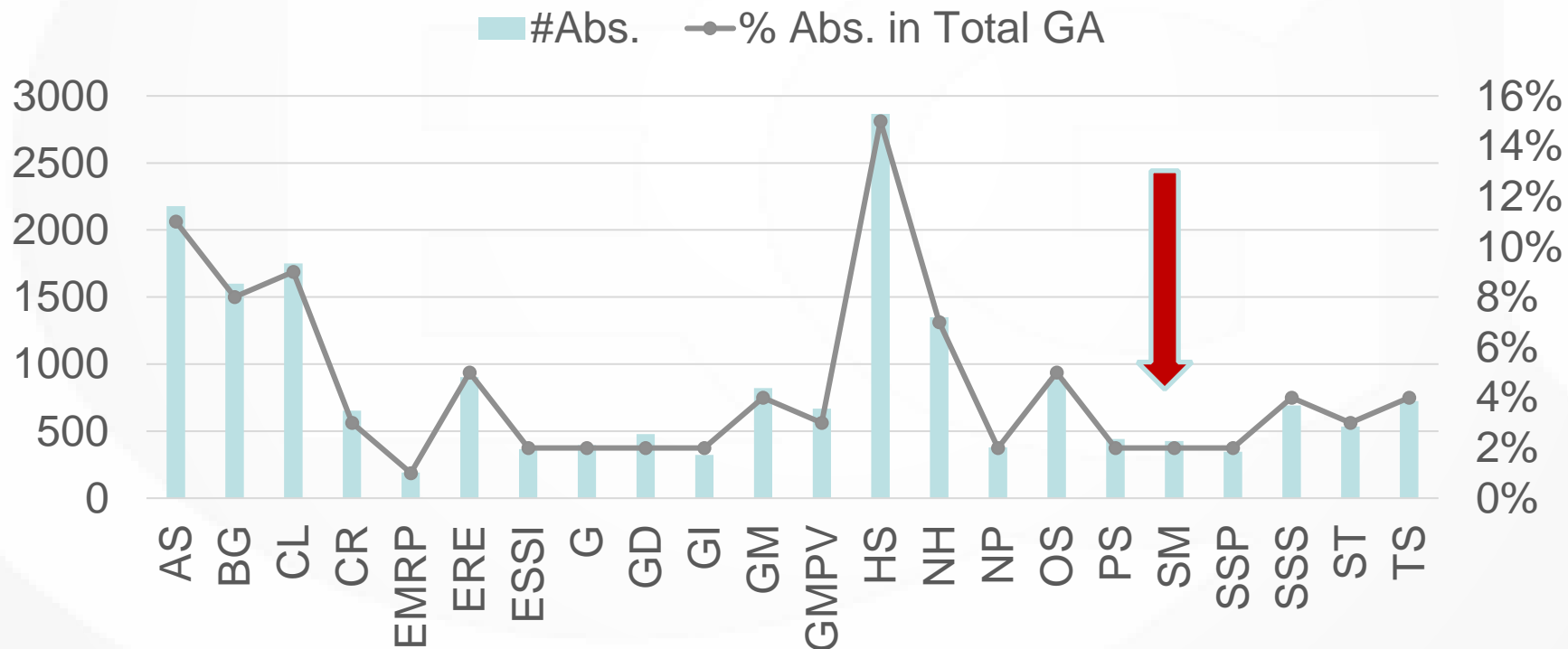


EGU23 oral presentation
Photo credit: Pfluegl 2023

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

EGU24: numbers at a glance

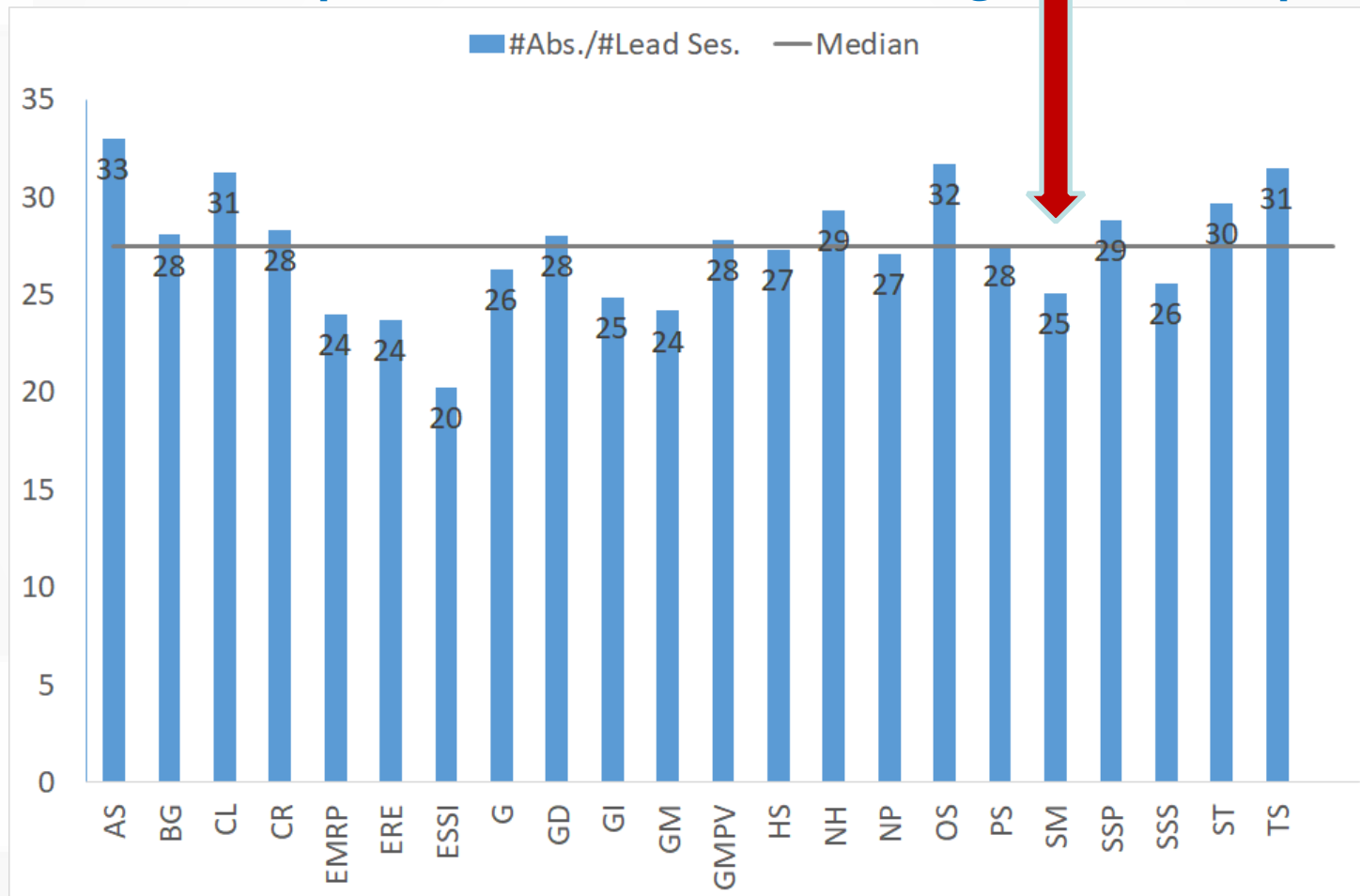
Abstracts per Programme Group (PG)



(as of 24 March 2024)

EGU24: numbers at a glance

Abstracts per (lead) session in each Programme Group



(as of 24 March 2024)

Programme group		Lead sessions			Co-org. sessions		Total	
		#Abs.	%	#Ses.	#Abs.	#Ses.	#Abs.	#Ses.
SM	Seismology	416	2%	17	676	21	1,092	38
Sum		18,926	100%	1,043	Last update: 17.04., 08:36:18			

Year	Abstracts total EGU	SM	Co-organised	TOTAL SM
2024:	19,319	416 (2%).	676	1092
2023:	16475	491 (3%)	685	1176
2022:	12615	328 (3%)	634	962
2021:	13721	273 (2%)	586	859
2020:	18061	546 (3%)	1204	1750
2019:	16237	523 (3%)	1313	1836
2018:	17238	412 (3%)	1665	2077

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

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The European Geosciences Union (EGU), Europe's leading organisation for Earth, planetary and space science, is dedicated to the **pursuit of excellence in geoscience research**. The EGU facilitates dialogue and the exchange of information between scientists, the media, policymakers and the public and is recognised as a trusted source of impartial, evidence-based geoscience information.

In order to uphold and promote the **highest standards of scientific integrity, open science and open access research**, the Union has adopted the following **Code of Conduct**. The aim of this document is to promote **ethical integrity and an inclusive, constructive and positive approach to science** within the broad scope of EGU activities.

The standards set out in this document are intended to guide members, officers and participants in EGU activities on the expected and required behaviour and conduct. They are guidelines and do not imply a legal obligation on the part of EGU with respect to its members.

Because the EGU is committed to a safe, open, accessible and respectful environment at its meetings, all organisers and participants are also expected to follow specific meeting guidelines when publicly available. Guidelines for the EGU General Assembly are posted on the conference's annual website.

For more information please see at
<https://www.egu.eu/about/code-of-conduct/>



Jürg Schweizer
Person of Trust *Email* conduct@egu.eu

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APC scheme of the future (2025)

Motivation for changes

- All journals move to per-paper APCs; there was a general consensus on this within the Publications Committee during their meeting in Oct 2023
 - Higher transparency in APCs for authors and funders as they will know the exact costs of a paper \neq per-page charges
- Currently: 16 journals charge per-page APCs, exception: OS, CP, AMT. Preliminary analysis has shown that per-article APCs do not lead to longer articles
- Copernicus is in negotiations of several institutional agreements (IAs); institutions request discounts
- EGU's mission includes a commitment to inclusive practices allowing colleagues in resource-poor countries to participate in all activities
- Several other publishers apply APC schemes that provide *automatic* waivers to authors in resource-poor countries (e.g. Research4Life*)
 - \neq Our current APC scheme as authors *have to ask* for financial support

Solid Earth is EGU's journal addressing topics of many divisions



Home

Search



OPEN ACCESS



INTERACTIVE PUBLIC PEER REVIEW



ARTICLE LEVEL METRICS



MODERATE ARTICLE PROCESSING CHARGES



FINANCIAL SUPPORT

Executive editors: CharLotte Krawczyk (chief executive editor), Susanne Buitert, Andrea Di Muro, Federico Rossetti & Arjen Stroeven

eISSN: SE 1869-9529, SED 1869-9537

Solid Earth (SE) is a not-for-profit journal that publishes multidisciplinary research on the composition, structure, and dynamics of the Earth from the surface to the deep interior at all spatial and temporal scales.



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Scopus® CiteScore 6.5

Google h5-index 34

Enter the journal through 4 thematic groups

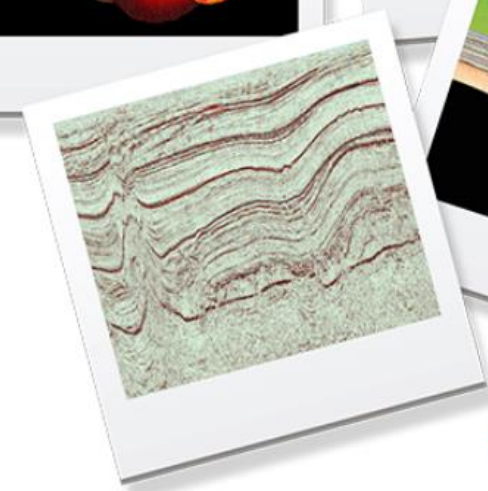
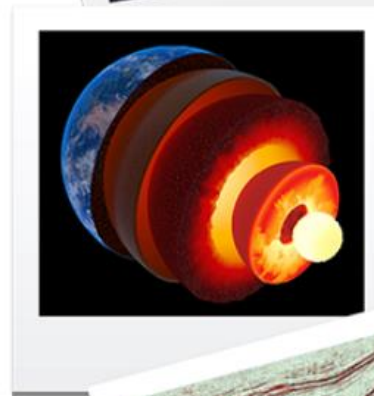
Tectonic plate interactions, magma
genesis, and lithosphere deforma-
tion at all scales



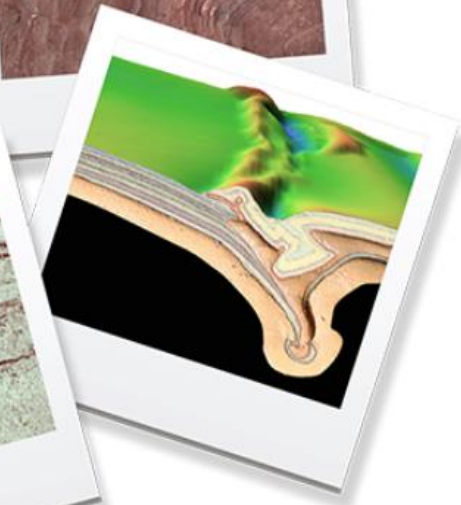
The evolving Earth
surface: erosional,
sedimentary, mor-
photectonic, and
volcanic processes



Core and mantle
structure and
dynamics



Crustal structure and
composition



Tectonic plate interactions

[Home](#) / [Tectonic plate interactions](#)



Relevant editorial teams:

- [Geodynamics, geodesy, gravity, and geomagnetism](#) | Buiter, Aubert, Dannberg, Gerya, Gillet, Lewi, Manda, and McClusky
- [Geochemistry, mineralogy, petrology, and volcanology](#) | Di Muro, Gottsmann, Lissenberg, Longo, Pinel, and Rey
- [Seismics, seismology, paleoseismology, geoelectrics, and electromagnetics](#) | Krawczyk, Beghein, Bianchi, Malinowski, Nissen-Meyer, Pilia, and Werban
- [Stratigraphy, sedimentology, geomorphology, morphotectonics, and palaeontology](#) | Stroeve, Gardin, Healy, Ogata, and Oliva
- [Structural geology and tectonics, paleoseismology, rock physics, experimental deformation](#) | Rossetti, Chu, Fousseis, Healy, Tavani, and Toy

Recent papers

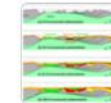
05 Apr 2024

[Extensional fault geometry and evolution within rifted margin hyper-extended continental crust leading to mantle exhumation and allochthon formation](#)

Júlia Gómez-Romeu and Nick Kuszniir

Solid Earth, 15, 477–492, <https://doi.org/10.5194/se-15-477-2024>, 2024

[Short summary](#)



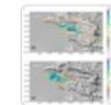
03 Apr 2024

[Lahar events in the last 2000 years from Vesuvius eruptions – Part 2: Formulation and validation of a computational model based on a shallow layer approach](#)

Mattia de' Michieli Vitturi, Antonio Costa, Mauro A. Di Vito, Laura Sandri, and Domenico M. Doronzo

Solid Earth, 15, 437–458, <https://doi.org/10.5194/se-15-437-2024>, 2024

[Short summary](#)



We welcome your submissions



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Germany



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GFZ Helmholtz Centre Potsdam
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Federico Rossetti

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Dipartimento di Scienze
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Department of Physical Geography
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CharLotte Krawczyk (#165579) | LOGOUT

Solid Earth

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Manuscript registration

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Was your preprint posted before?

Solid Earth (SE) allows you to submit either original preprints for initial posting and discussion on EGU'sphere, EGU's central preprint repository, or preprints that were already posted on a preprint server seeking public discussion on EGU'sphere. In both cases, after the public discussion on EGU'sphere, the handling editor decides on a possible final journal publication in SE. Please select from the options below.

- My preprint has not been posted anywhere, and I seek public discussion on EGU'sphere, EGU's preprint repository
- My preprint has already been posted on a preprint server, and I seek public discussion on EGU'sphere

Proceed

EGUsphere topic selection

Please select one or more topics matching your preprint.

Natural hazards

- General topics in natural hazards
- Hydro-meteorological hazards
- Volcanic hazards
- Landslide hazards
- Earthquake hazards
- Sea & ocean hazards
- Remote sensing & hazards
- Wildfire hazards
- Environmental, biological, & natech hazards
- Natural hazards & society
- Multi-hazards
- Interdisciplinary topics in natural hazards

Nonlinear processes in geosciences

Ocean sciences

Planetary & solar system sciences

Seismology

- General topics in seismology
- Crustal fluids & seismic activity (incl. induced & triggered seismicity, volcano seismology)
- Seismic hazard assessment (earthquake forecasting, engineering seismology, seismic, and/or multihazard probabilistic assessment)
- Computational, theoretical seismology and big data
- Interdisciplinary topics in seismology

Stratigraphy, sedimentology, & palaeontology

Manuscript specification

Companion paper(s):

or

Multiple manuscript numbers must be separated by commas.

Manuscript type

Research article

Journal subject areas & alert specification

First choice*

Subject area

[please select]

Editorial team

Please define

Second choice

Subject area

Editorial team

Please define

Referee suggestion*

You are strongly encouraged to suggest referees considering under-represented different career stages, with particular attention to the participation of Early Career Scientists.

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The EGU Topical Events Committee announces the call for Training School applications: 6 May - 17 June, 2024



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



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:

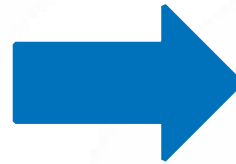
- **Angela Croome Award** for Earth, space and planetary sciences journalism
- **Champion(s) for Equality, Diversity and Inclusion Award** for significant contributions in advancing the values of EDI in the geoscience community
- **Katia and Maurice Krafft Award** for Geoscience outreach and engagement

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

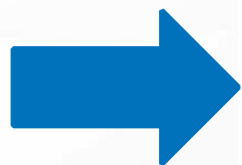


Join a Science for Policy Session at EGU24!

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!

Monthly updates on:

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



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

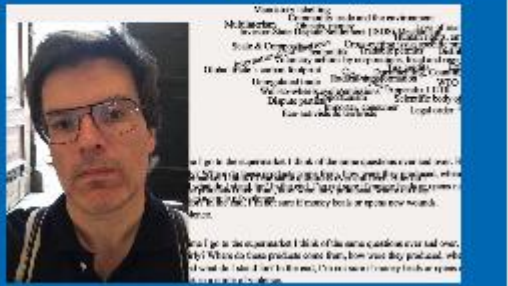


Art-Science offerings at EGU24

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

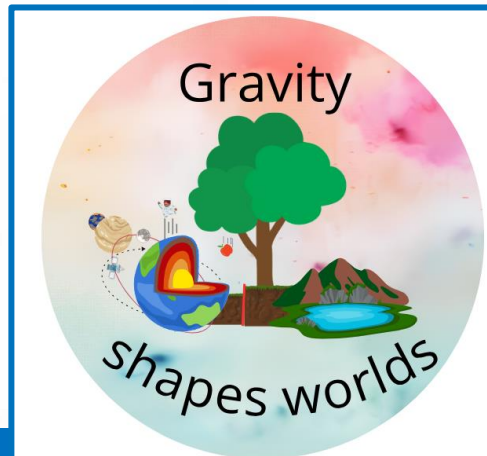
Art-Science sessions at EGU24:



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

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



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



natural history museum vienna | 1010 Vienna, Maria-Theresien-Platz | www.nhm.at |   
Daily except Tuesday 9 a.m. – 6 p.m., Wednesday 9 a.m. – 8 p.m.

A scenic landscape featuring a waterfall cascading over rocks into a pool of water. The background shows a wide, flat plain under a blue sky with light clouds. A large yellow speech bubble is overlaid on the scene, containing the text 'Please Give Us Feedback!'.

**Please
Give Us
Feedback!**

egu24.eu/feedback

ENJOY EGU24!

Questions?
Comments?