

ENERGY, RESOURCES AND THE ENVIRONMENT (ERE)

Division Meeting, 25.04.2023

Viktor J. Bruckman & the ERE team



Energy, Resources
& the Environment

Division



Meetings | Publications | Outreach | www.egu.eu

Energy, Resources and the Environment (ERE) division in a nutshell

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



ERE Division: How do we serve the community?

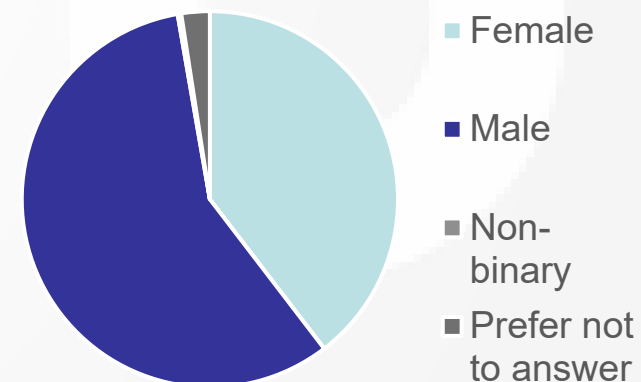
- **Organization** - Plan/run the ERE sessions for the General Assembly
- **Publications** - Offer annual ERE special issue(s)
- **Information** - Run the ERE mailing lists, website and twitter
- **Awards** - Organizing ECS and OSPP Awards
- **Networking** - Bring together ERE early career scientists, building bridges across disciplines



https://twitter.com/ERE_EGU

EGU23 Registration Statistics (as of 17 Apr)

- 16,604 **active scheduled abstracts**
- 15,319 **total registrations** (13,287 on-site / 2,032 virtual)
- ~13% of total participants registered for **virtual participation**
- ~ 40% of total participants are **PhD candidates, Master or Undergraduate students** (~ 25% participating virtually)
- ~ 5% of registered participants from **low- & lower-middle income countries** (approx. equally distributed onsite & virtual participation)
- **Gender:** male (~ 57 %) and female (~ 39 %), with less difference between percentages for virtual participation



EGU23 Session Statistics (as of 12 Apr)

- **925 active sessions:**
 - **629 division-led sessions, of which 25 ITS sessions**
 - 14 Education and Outreach Sessions (EOS) + GIFT workshop
 - 51 Short Courses + 2 Artist in Residence workshops
 - 39 Medal and Award Lectures
 - 5 Union Symposia and 6 Great Debates
 - 114 Townhall & Splinter meetings scheduled
 - 52 sessions (incl. 4 SC) co-sponsored by sibling organizations
- ECS Networking, Science for Policy, and EDI Committee events

More on: <https://www.egu23.eu/>

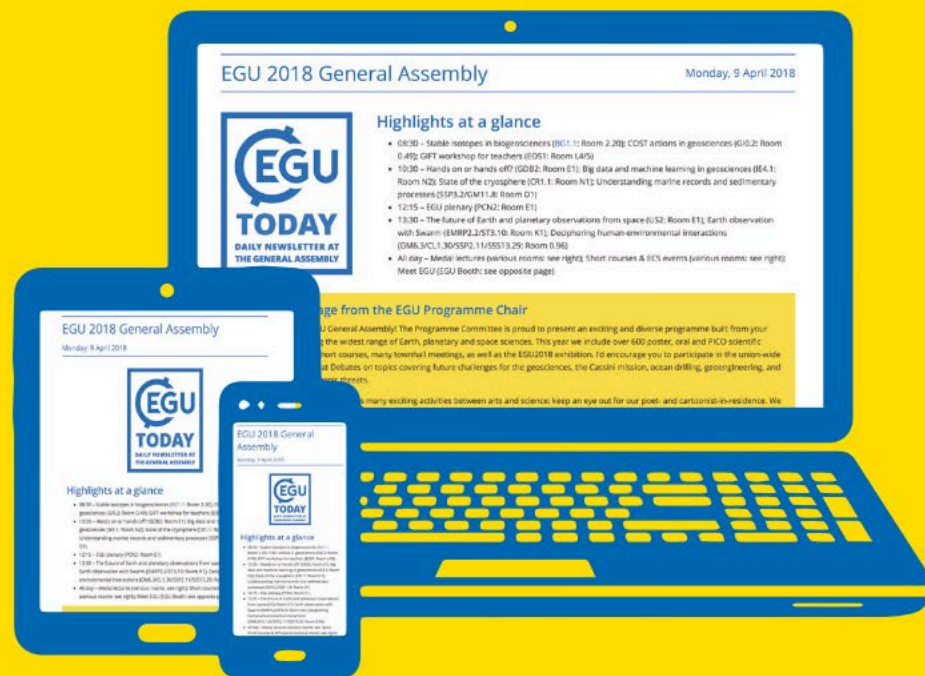


The Daily Newsletter at the General Assembly

EGU TODAY IS NOW DIGITAL!



www.egu.eu | info@egu.eu

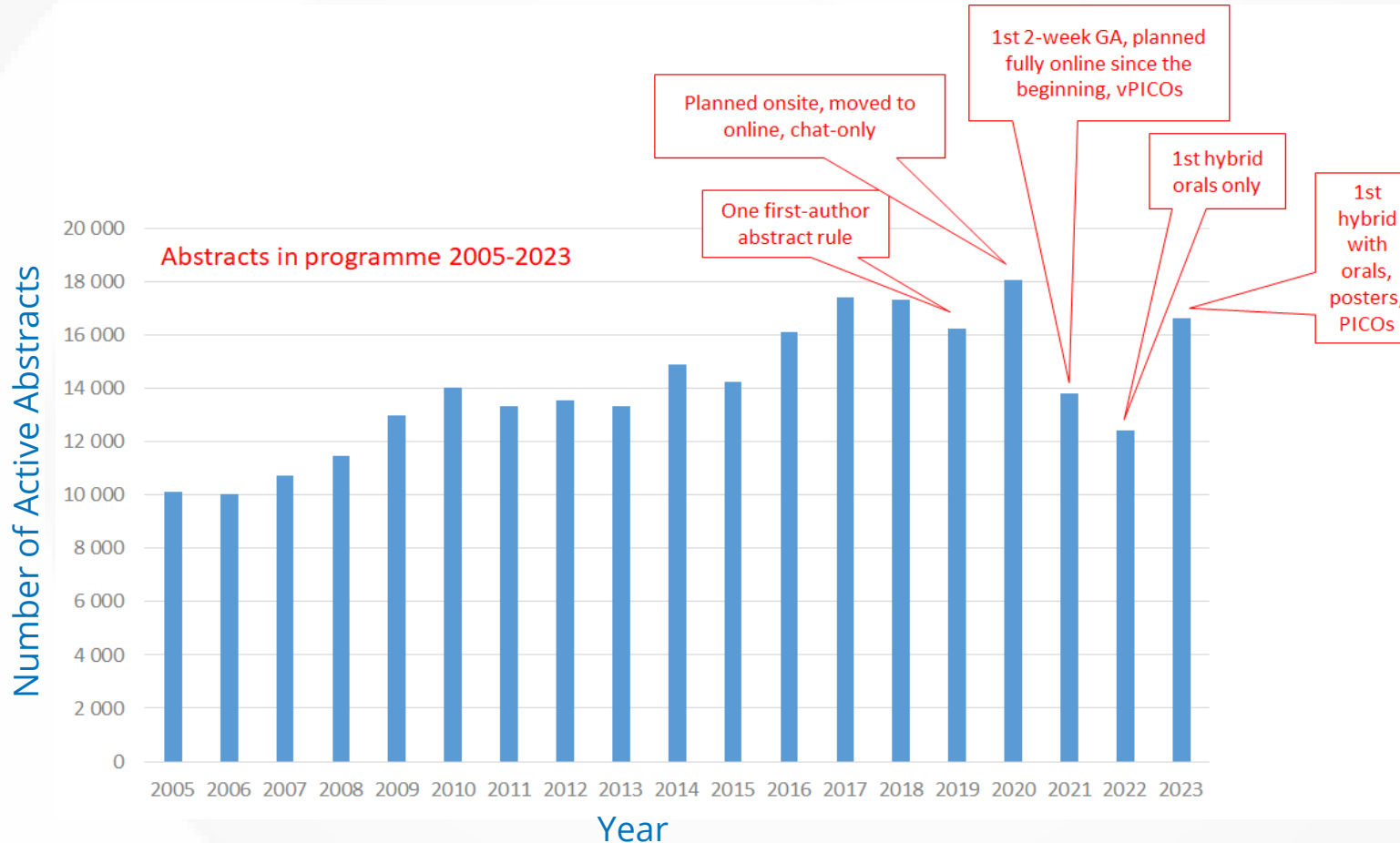


All issues of the newsletter
will be made available at

www.egu.eu/egutoday/

through the conference app
and on screens inside the ACV.

Number of Active Abstracts 2005-2023

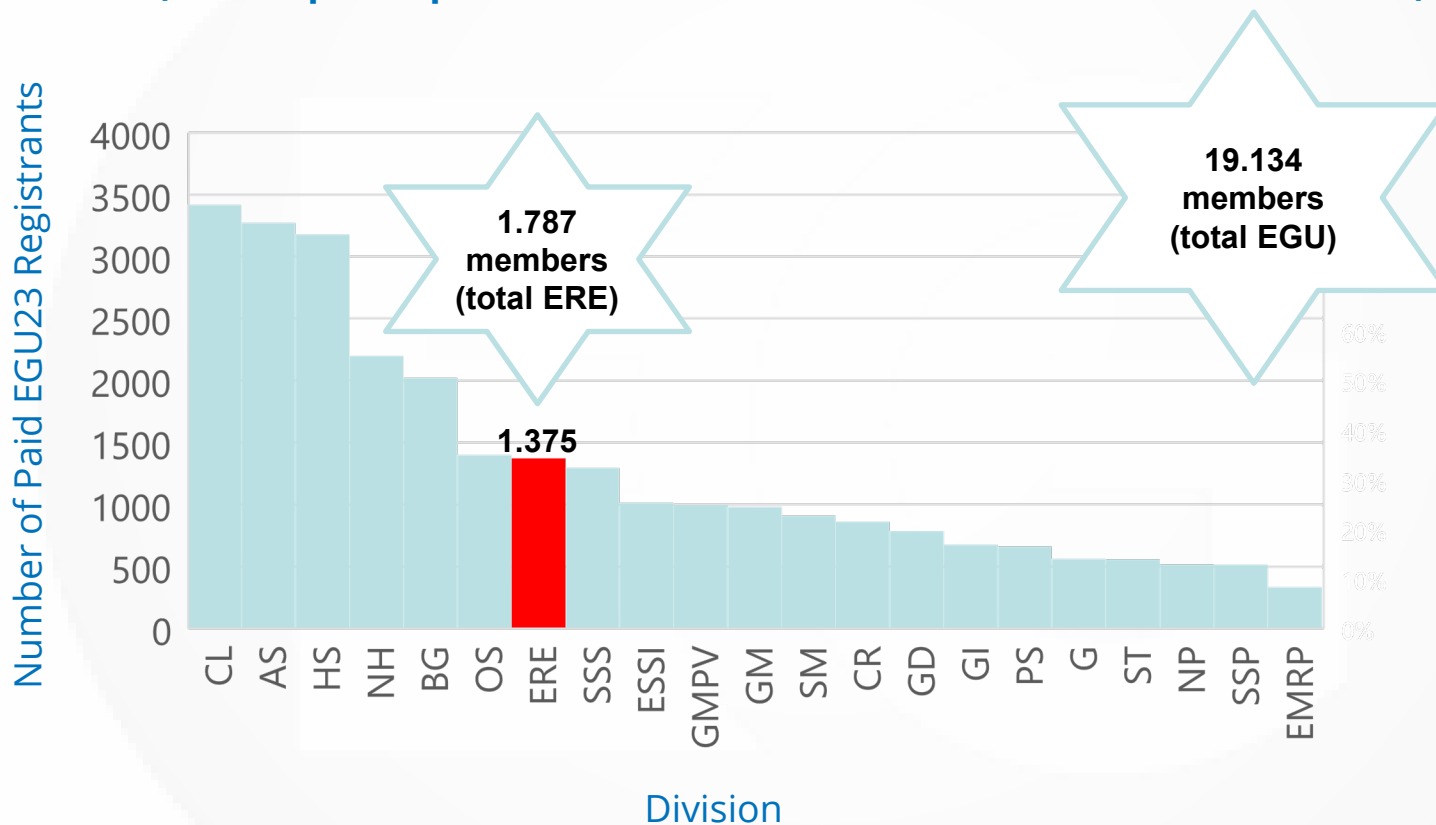


- **16,646 active scheduled abstracts** (as of 12 April)

EGU Division Affiliation of Paid Registrations

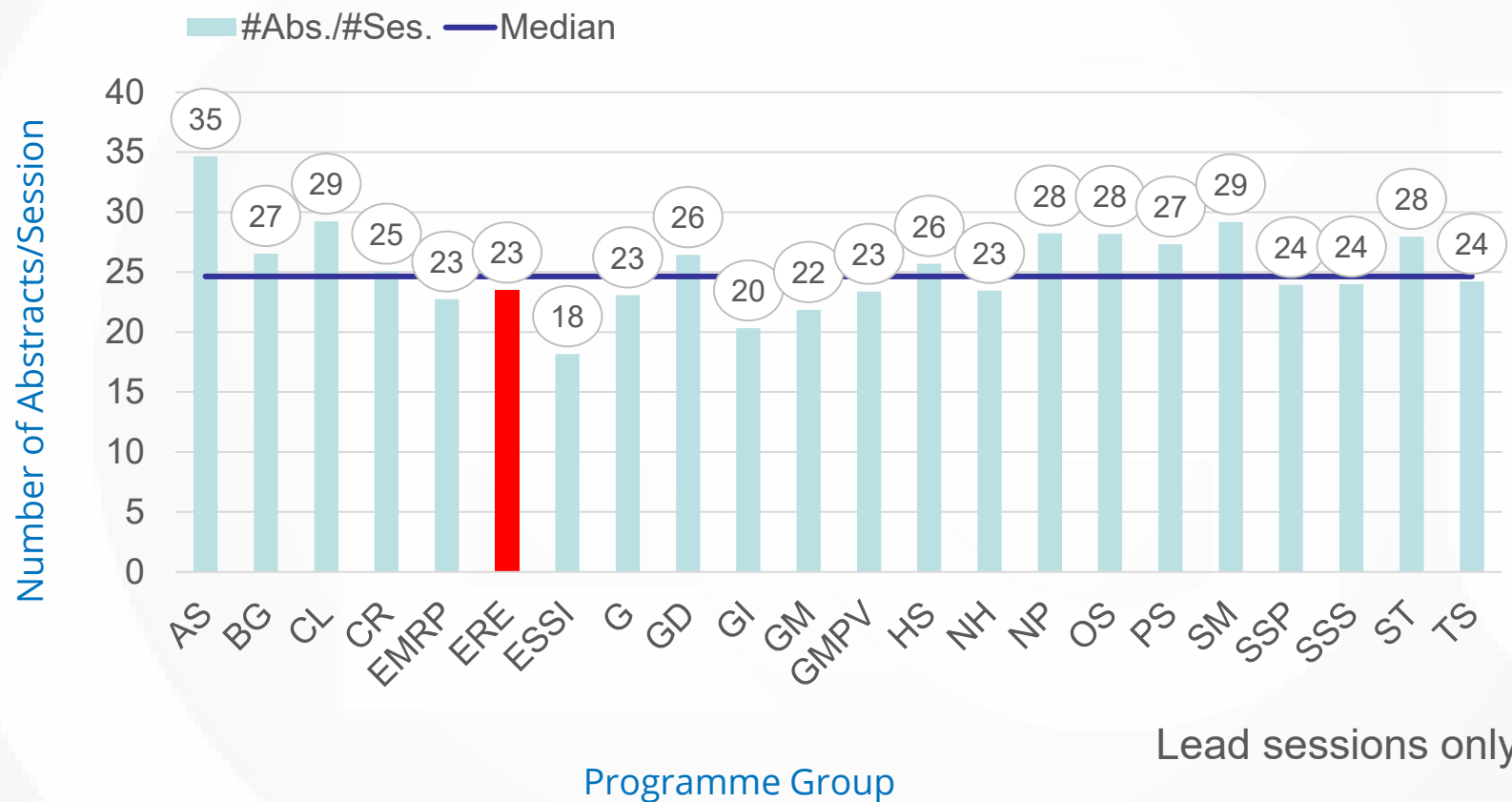
(as of 12 Apr)

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



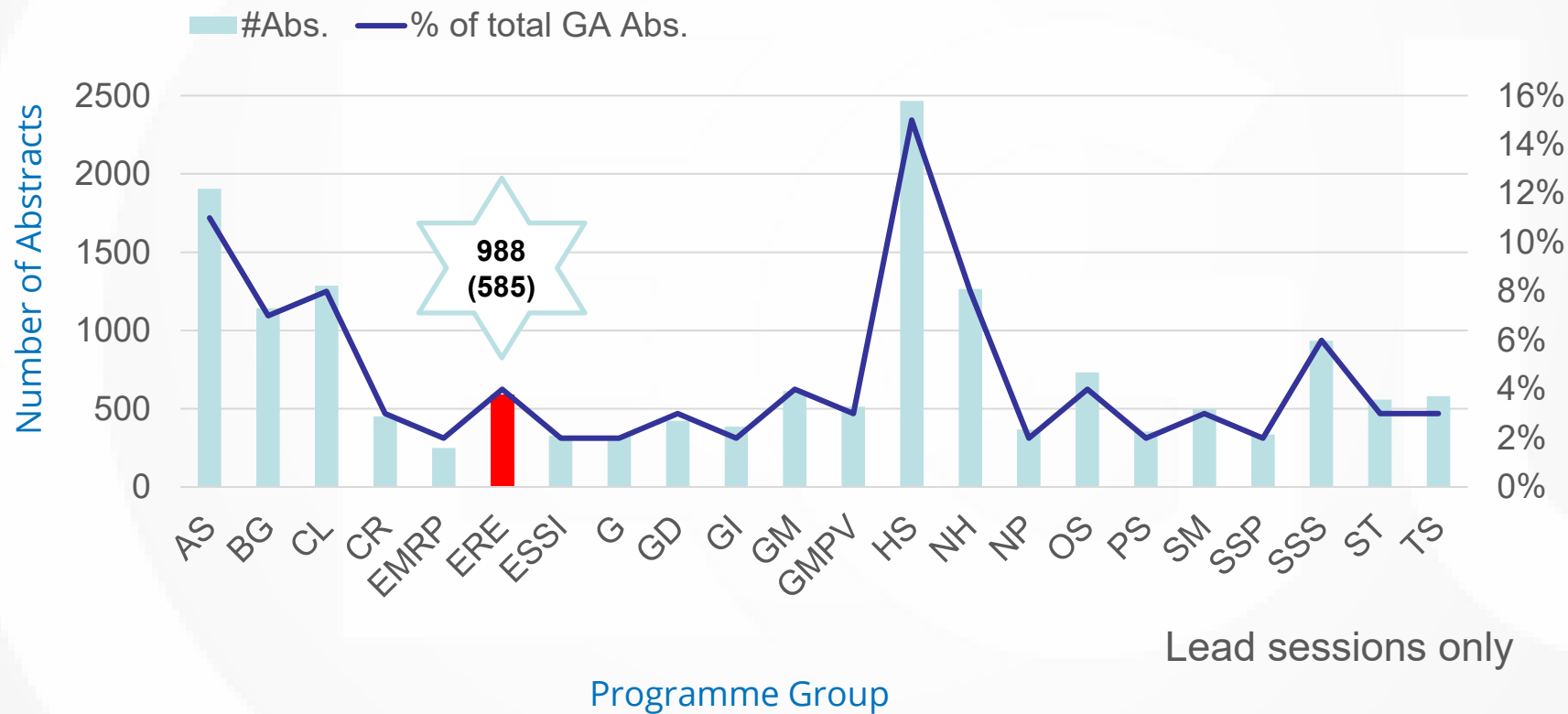
ERE
 59.2% male
 38.3% female (5th)
 77.2% ECS

EGU23 Abstracts Per Session Per Programme Group (as of 12 Apr)



EGU23 Abstracts per Programme Group

(as of 12 Apr)



ERE Scientific Program 2023



- **ERE 1: Integrated Studies**
- **ERE 2: Renewable Energy**
- **ERE 3: Geo-Storage**
- **ERE 4: Raw Materials**
- **ERE 5: Process coupling and monitoring related to geoenery applications**

Summary:

23 sessions (lead), **39** sessions (including co-organized & ITS)

<https://meetingorganizer.copernicus.org/egu23/sessionprogramme/ERE/>

ERE Division Officers (since 05/2022)

- President / PG Chair: **Viktor J. Bruckman**
- Deputy President: **Sonja Martens**
- Division Officers
 - **Chris Juhlin** (inter- and transdisciplinary)
 - **Michael Kühn** (publications)
 - **Ana Teresa Maçãs Lima** (policy)
 - **Neha Mehta** (outreach)
 - **Giorgia Stasi** (ECS representative)



V.J. Bruckman



S. Martens



C. Juhlin



M. Kühn



N. Mehta



A.T.M. Lima



G. Stasi

**Chris Juhlin and
Neha Mehta decided
to step down**

Unanimously approved by the ERE community



ERE Division Officers (approved from EGU 2023)

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 - **Michael Kühn** (publications)
 - **Ana Teresa Maças Lima** (policy)
 - **Giorgia Stasi** (ECS representative)
 - **Sarah Weihmann** (OSPP coordinator)
 - **Johannes Miocic** (outreach)



V.J. Bruckman

**Term ends in
GA 2025:
ERE division
elections in fall
2023!**



S. Martens



M. Kühn



A.T.M. Lima



G. Stasi

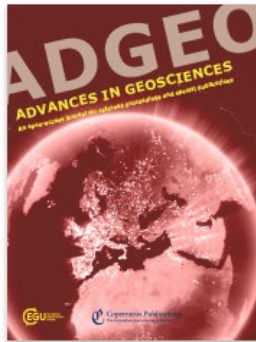


S. Weihmann



J. Miocic

ERE: Publish in Advances in Geosciences



- **Join the ERE special issue 2023 in Advances in Geosciences (ADGEO).**
- If you submitted an abstract to an ERE session or a co-organized one for the GA 2023, 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 15 April **until 15 June 2023.**
(https://www.advances-in-geosciences.net/about/scheduled_proceedings.html)
- Reviews are done by ERE officers, conveners and authors of the GA 2023.
- 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 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

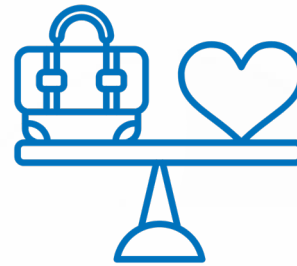
Working Groups | What are they and what do they do?



Career



Connectivity



Life-Work Balance



Pride

ERE Early Career Scientists ECS

- **Team:**



Giorgia Stasi
ECS Representative



The next member might
be YOU!

- **Slack Channel:** 9 members
- **Social Media:** Twitter @ERE_EGU, coordinated by Outreach Officer Neha Meta

ERE Early Career Scientists ECS

- **Our activities:**
 - Participation to the Working Groups
 - Organization of Networking events
 - Organization of Short Courses during the GA



ERE ECS networking lunch

Wed, 26 Apr, 12:30–14:00 CEST

Location: EGU networking zone -
terrace G (purple level).



SPM92 Shaping Division Fieldwork Activities at EGU

Wed, 26 Apr, 08:30–10:15

Location: Room 2.61

ERE Early Career Scientists ECS

- **Our goals:**
 - Having a connected community of ERE ECS
 - Organization of 2 webinars in the next year
 - Revive the blog



Are you interested in being more involved in EGU activities?

Join our team ! 😊

For more info: ecs-ere@egu.eu

ERE Policy

ERE was involved in the session ” [What does policy engagement look like for scientists from energy and resources, soil, atmospheric, ocean, and biogeoscience disciplines?](#)” but it was merged because it had few abstract submissions

Science policy officer applied to ”[EGU's annual Science-Policy Pairing Scheme](#)” – we will try again this year
Science policy Hangouts, webinars, and other online events → [sign up here](#)

Resources on policy

- Test yourself: your work on policy! <https://smart-for-policy.ec.europa.eu/>
- Session related <https://meetingorganizer.copernicus.org/EGU23/session/47718>

Other sessions on policy:

- Climate adaption roundtable → [Find it here](#)
- Local politics vs intergovernmental processes → [Find it here](#)
- [How to create spaces for science-policy...dialogue](#)
- [Urland](#) (sci-policy game)
- [Drop in clinic](#): Communicating your science meaningfully & ethically

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



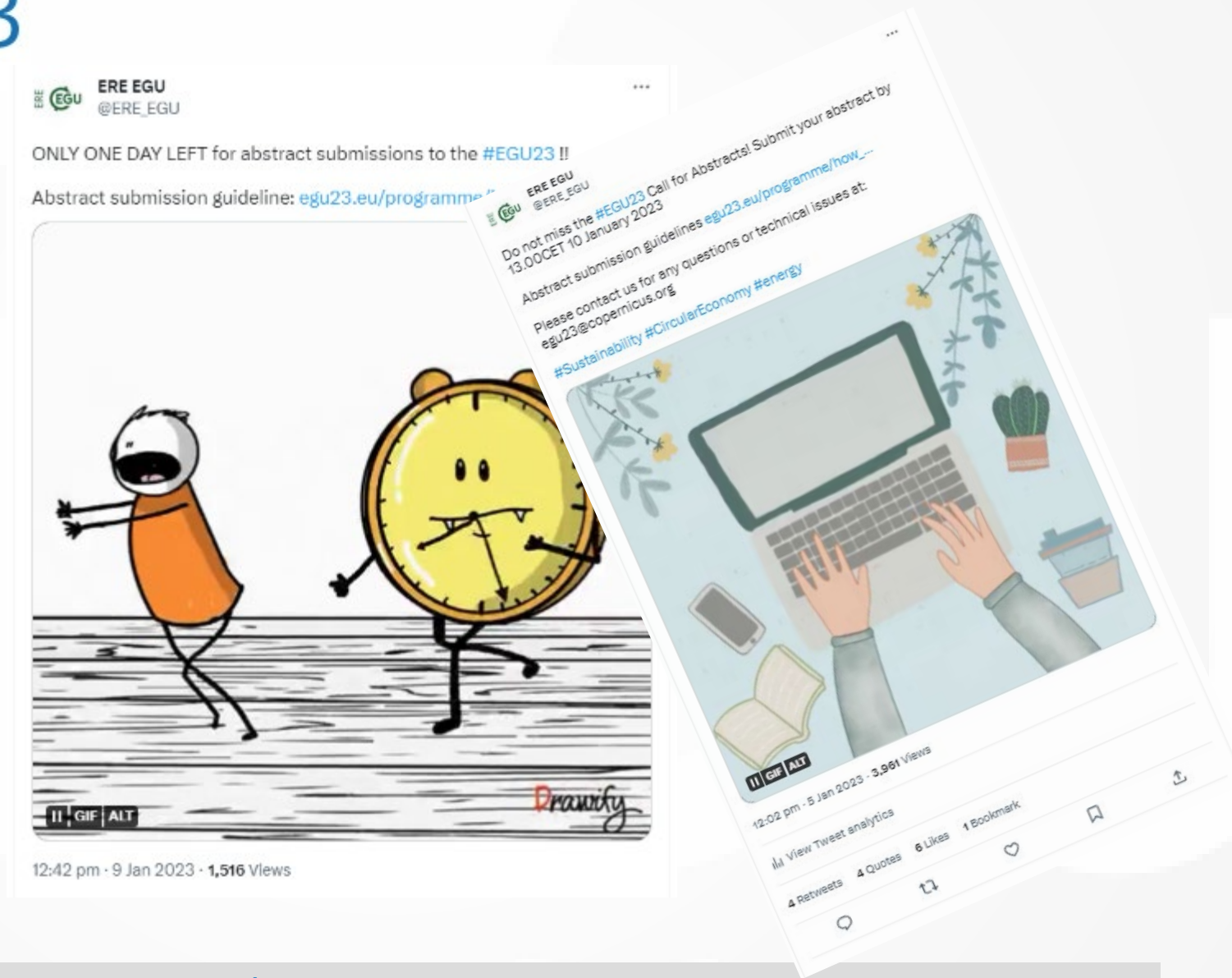
Outreach activity at the Energy, Resources and the Environment division.

Main activity include keeping the ERE_EGU twitter page active!

Through retweets and quote tweets from the EGU Geoscience page for the information, that is relevant to all the divisions



Sharing information about the activities at the Energy, Resources and the Environment division, through tweets!



More on: <https://www.egu23.eu/>

Retweeting and quote tweeting, original tweets from the scientists and researchers of the ERE_EGU community, giving us a shout, to help spread the information in their tweets

You Retweeted
Dr Adriana Guatame-García
@AdrianaGuatame

Share your work on Innovative solutions for revalorisation and proactive #MineWaste management at the #EGU23 General Assembly Session ERE 4.4

meetingorganizer.copernicus.org/EGU23/session/...
@EuroGeosciences #Sustainability #tailings #Mineral

ERE EGU @ERE_EGU · 5 Jan
Do not miss the #EGU23 Call for Abstracts! Submit your abstract by 13.00CET 10 January 2023

Abstract submission guidelines egu23.eu/programme/how...

Please contact us for any questions or technical issues at:
egu23@copernicus.org

#Sustainability #CircularEconomy #energy



6:49 pm · 5 Jan 2023 · 853 Views

Tweet

You Retweeted
LIBS-SCReE Project
@LibsScreen

Laser-Induced Breakdown Spectroscopy comes to #EGU23! Are you applying LIBS techniques to tackle challenges related to the whole life cycle of mineral raw materials?
@GSBelgium & @INESCTEC look forward to receiving your contribution to session ERE4.6 tinyurl.com/az7tu39b

EGU General Assembly 2023
Vienna, Austria & Online | 23-28 April 2023

Programme
ERE4.6
Applications of Laser-Induced Breakdown Spectroscopy (LIBS) from exploration to post-beneficiation of mineral raw materials
Co-conveners: Renata Barro/FGQ | Co-conveners: Chvatan Burlet Q, Pedro Jorge Q, Ana Rives Q

Laser-Induced Breakdown Spectroscopy (LIBS) is a fast, in-situ analytical technique based on spectroscopic analysis of light emitted from the decay of electrons to lower-energy states in cooling laser-induced plasmas. Some of its advantages are that it requires little or no sample preparation, and the wavelength range typically measured can cover most chemical elements, including some which are difficult to identify with more traditional techniques (notably lithium), which result in a detailed and complete chemical signature of a small spot. It is a well-established technique for qualitative and semi-quantitative geochemical characterisation and imaging, allowing for more effective sample preparation for further quantitative or more sensitive analysis. LIBS has been widely used in soil studies and it's increasingly becoming relevant for mineral exploration, but evolving LIBS research show the range of its applications is far from exhausted. In this context, we invite contributions from researchers applying LIBS techniques to tackle challenges related to the whole life cycle of mineral raw materials, which might include (but are not limited to) innovation in mineral exploration, optimisation of ore extraction and sorting, or monitoring of environmental impact.

Submit your abstract by 10 January 2023, 13:00 CET

9:04 am · 23 Nov 2022

3 Retweets 2 Quotes 3 Likes



Division Outstanding Early Career Scientist Award



The 2023 Division Outstanding Early Career Scientist Award is awarded to

Johannes Miocic

for outstanding and innovative research and community service in the field of safe and sustainable subsurface storage.

**AWARD LECTURE: Today, 16:20–16:50,
Room 0.94/95 – YELLOW level**

Outstanding Student and PhD candidate Presentation (OSPP) Award



The 2022 ERE OSPP Award goes to

Tobias Schnepfer

Hydrogeochemical impact assessment of pumped hydro power storage in open-pit lignite mines

Outstanding Student and PhD candidate Presentation (OSPP) Award



The 2022 ERE OSPP Award goes to

Lieke van der Most

Extreme impacts in the European renewable electricity system as a result of climate variability

Outstanding Student and PhD candidate Presentation (OSPP) Award



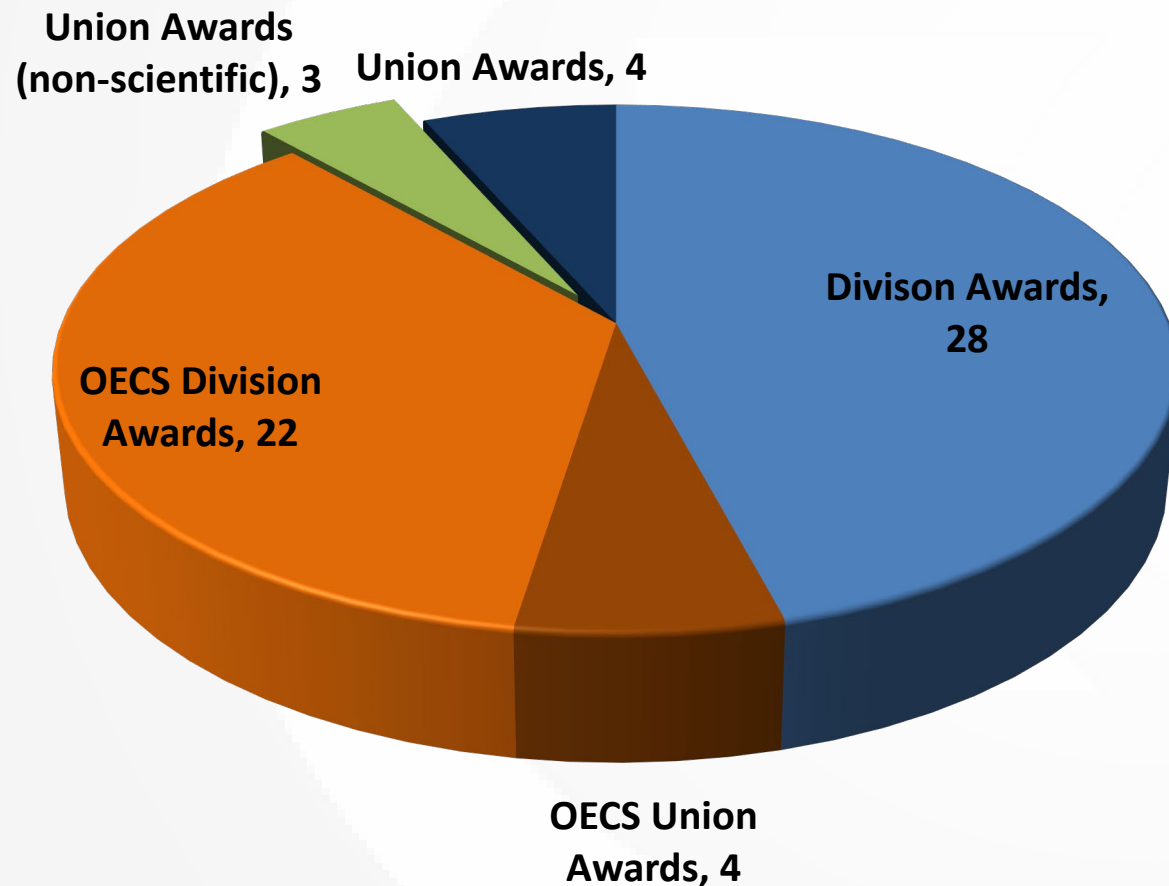
The 2022 ERE OSPP Award goes to

Hung-En Li

Forecasting impacts of climate change on
plantation carbon sink capability

EGU awards & medals

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



Awards

- 4 prestigious **Union medals**, recognising excellence in scientific research
- 4 Union awards for **Outstanding Early Career Scientists, services for the Union, science journalism, and outreach**
- 28 **division medals**, awarded for significant disciplinary contributions in Earth, planetary and space sciences
- 22 **division awards for Outstanding Early Career Scientists and General Assembly awards for students**



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	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 1

**Managing compounding
impacts from extreme events
through societal crises**

**Wed. 26 April, 10:45-12:30 CEST
Room E1**

#EGU23



EGU23

**EGU Award
& Medal
Celebration**

**Wednesday 26 April,
17:30-19:30 CEST**

Room E1



Union Symposium 3

Challenges and solutions to increasing accessibility, representation, recognition and diversity of European countries in the European geosciences community

Fri. 28 April, 8:30-12:30 CEST

Room E1

#EGU23

**Please
Give Us
Feedback!**

EGU23 Feedback Survey

Survey open until end of June

<https://www.egu23.eu/feedback>

Mark Your Calendar!

EGU General Assembly 2024
14-19 April 2024
Vienna, Austria & Online

THANK YOU!

ere@egu.eu

Energy, Resources
& the Environment

Division

