Energy, Resources & the Environment (ERE)

Division Meeting – 29 April 2021

Viktor J. Bruckman and Sonja Martens

Contact: ere@egu.eu Website: http://www.egu.eu/ere



vEGU21: Gather Online | 19 - 30 April 2021

Meetings | Publications | Outreach | www.egu.eu



The ERE Team welcomes you



Sonja Martens



Viktor J. Bruckman



Morgan Tranter



Maria Wetzel



Maria Ask





Chris Juhlin



Michael Kühn



Kristen Mitchell





vEGU21 Facts

As of 13 April, the vEGU21 provides

- 13,743 abstracts in programme | -24% relative to 2020
- Total sessions: 843, of which 636 are vPICO
- Networking opportunities, e.g scheduled networking events, pop-up networking events, EGU committee meet & greets, Viennese settings (café, art exhibits, cooking)



vEGU21: Gather Online | 19–30 April 2021

ABOUT ▼ PROGRAMME ▼ REGISTER EXHIBITION ▼ GUIDELINES ▼ 🖒 ▼

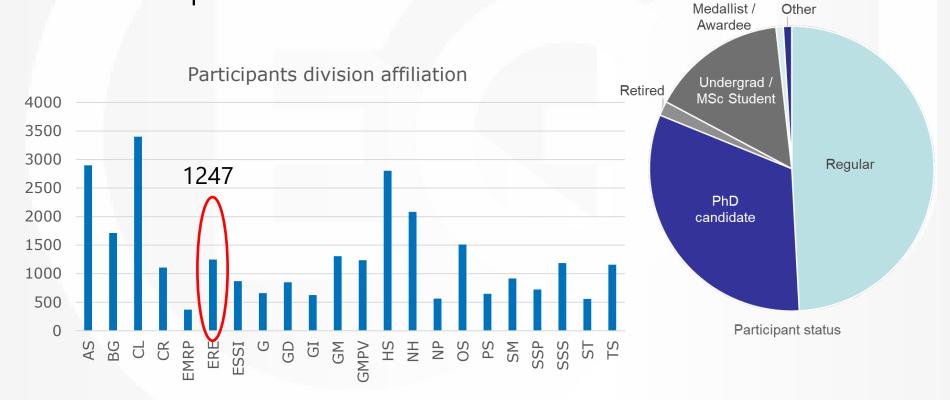
#vEGU21: Engage • Discover • Inspire



vEGU21 Registration numbers

13,982 registrations (17 April 2021, 11:30)

Participants from 126 countries





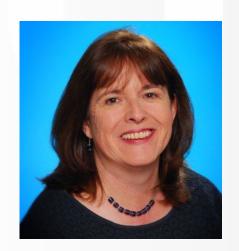
New EGU president: Helen Glaves

Alberto Montanari served as EGU President for the term 2019-2021. Thanks, Alberto!



Helen Glaves was elected to serve as EGU President for the term 2021-2023. Congratulations, Helen!

She was inaugurated during the EGU plenary meeting in 2018 serving first as the EGU Vice-President for one year. She will then now serve as EGU President for two years (2021–2023) and finally as Vice-President for the fourth year.







Aim of our ERE division

- **EGU** brings together geoscientists covering all disciplines of the earth, planetary and space sciences (interdisciplinarity).
- We Energy, Resources and the Environment (ERE) bring together these scientists to ...
- ... tackle challenges of the future: Provide adequate and reliable supplies of affordable energy and other resources, obtained in environmentally sustainable ways, which will be essential to economic prosperity, environmental quality and political stability around the world.

Energy, Resources & EGU & the Environment



ERE Division Officers

Until April 2021:

- President/PG Chair: Sonja Martens
- Deputy President: Chris Juhlin
- Officers:
 - Maria Ask
 - Viktor J. Bruckman
 - Michael Kühn
 - Kristen Mitchell
- ECS Representative: Morgan Tranter



S. Martens



C. Juhlin



M. Ask



V.J. Bruckman



M. Kühn



K. Mitchell



M. Tranter



ERE Division Officers

This term:

- President/PG Chair: Viktor J. Bruckman
- Deputy President: Sonja Martens (approved)
- Officers:
 - Chris Juhlin (approved)
 - Michael Kühn
- ECS Representative: Morgan Tranter



V.J. Bruckman



S. Martens



C. Juhlin



M. Kühn

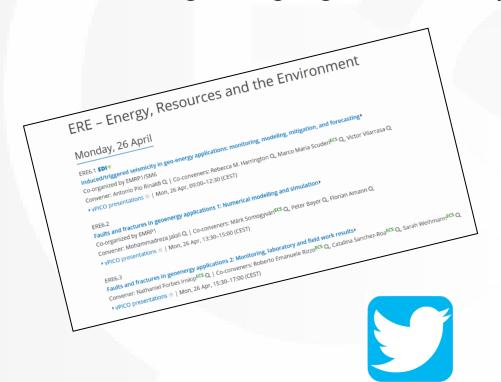


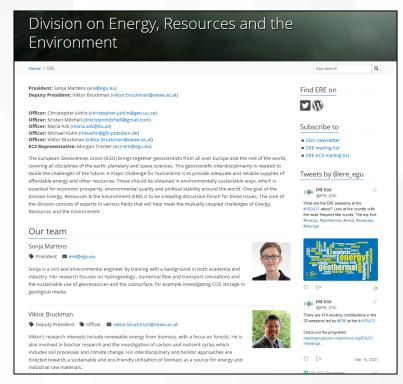
M. Tranter



On-going activities of the ERE Division

- Organization Plan/run the ERE sessions for the General Assembly
- Publications Offer annual ERE special issue(s)
- Information Run the ERE website and the twitter account
- Networking Bring together ERE early career scientists





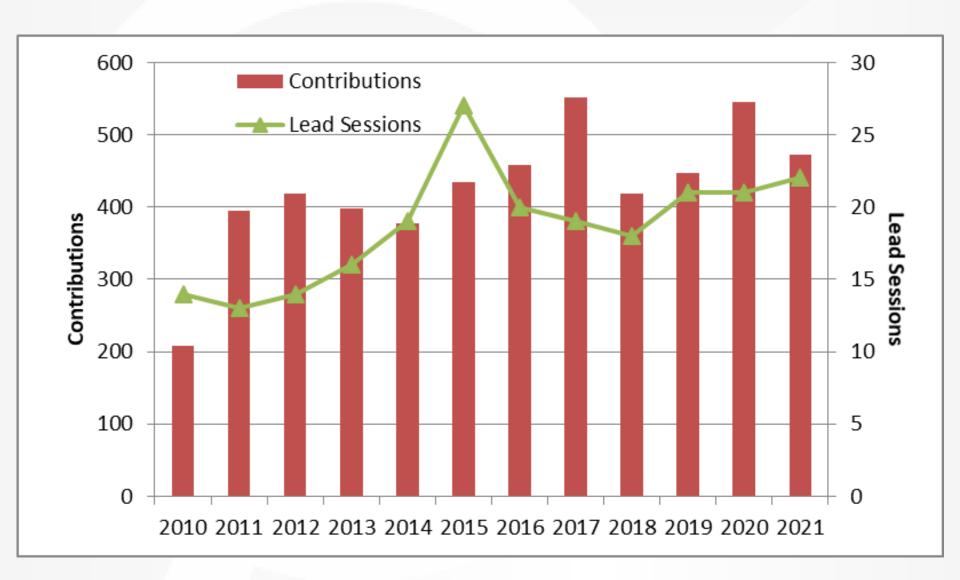
https://twitter.com/ERE_EGU

http://www.equ.eu/ere





ERE – Scientific Programme





ERE Scientific Programme in 2021

ERE1 – Integrated studies

- ERE1.1 Energy, Resources & the Environment Open session
- ERE1.2 GeoERA: Developing integrated geoscience services to address European resource supply and management challenges
- ERE1.3 Carbon emissions/removals estimates under Land use, land-use change and forestry (LULUCF) sector: field measurements, remote sensing and modelling
- ERE1.4 Impacts and co-benefits of the energy transition on terrestrial ecosystems implications and prospects for Natural Capital and Ecosystem Services
- ERE1.5 Land use dynamics, land degradation and insights for land sustainability in agriculture and forest landscapes

ERE2 – Renewable energy

- ERE2.1 Energy Meteorology
- ERE2.2 Spatial and temporal modelling of renewable energy systems
- ERE2.5 Exploration, utilization and monitoring of conventional and unconventional geothermal resources
- ERE2.6 Shallow geothermal systems for heating and cooling: geoscience and engineering approaches

ERE3 – Fossil energy

- ERE3.1 Petroleum exploration and production and their impact on the environment



ERE Scientific Programme in 2021

ERE4 – Geo-storage

- ERE4.1 Secure subsurface storage for future energy systems
- ERE4.2 Towards a safe nuclear waste repository assessment of barrier integrity, geoscientific, technological, societal and regulatory challenges and approaches

ERE5 – Raw materials

- ERE5.1 Global Heritage Stone Resource: The sustainable way forward
- ERE5.3 Sustainability as a challenge to face and a goal to reach: interdisciplinary approach to support raw materials and energy supply
- ERE5.4 Mineral exploration for the XXI Century
- ERE5.6 Antimony and associated elements: from mineralisation to the environment
- ERE5.7 Towards an environmentally sustainable transformation of tailings and mine waste:
 circular economy and future vision

ERE6 – Process coupling and monitoring related to geoenergy applications

- ERE6.1 Induced/triggered seismicity in geo-energy applications: monitoring, modeling, mitigation, and forecasting
- ERE6.2 Faults and fractures in geoenergy applications 1: Numerical modelling and simulation
- ERE6.3 Faults and fractures in geoenergy applications 2: Monitoring, laboratory and field work results



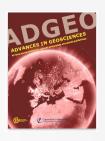
Please join the ERE networking event: NET5 today at 12:00

- Open ZOOM-Meeting for discussing issues around
 - vEGU21 in general (organization, challenges, improvement...)
 - ERE in specific (quality of sessions, topics covered, ideas...)
 - And for all other issues you would like to inform us
- ERE networking event starts right after the ongoing Division Meeting

MIRO assisted, link: https://miro.com/app/board/o9J_IJ6Zns0=/



ERE: Publish in Advances in Geosciences



- Join the ERE special issue 2021 in Advances in Geosciences (ADGEO).
- If you submitted an abstract to an ERE session or a co-organized one for the GA 2021, 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 fee depends on your home institution and is ca. 35 €/page.
- Submissions are possible from 1 May until 30 June 2021.
- Reviews are done by ERE officers, conveners and authors of the GA 2021.
- 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, Sonja Martens, Viktor Bruckman (adgeo.ere.egu@gfz-potsdam.de)



ERE: Publish in Applied Sciences



- Join an ERE special issue with a full paper in Applied Sciences.
- We are seeking for contributions of fundamental scientific advances and engineering developments in the understanding of resources systems and aspects of the environmental impacts of socio-economic development.
- Every manuscript is welcome not previously published elsewhere.
- Targeted key topics are studies on renewable energy, fossil energy, geostorage, raw materials as well as process coupling and monitoring.
- Theoretical, empirical, or experimental approaches are welcome.
- Guidelines for preparations and templates are available on the MDPI website: https://www.mdpi.com/journal/applsci/instructions
- Publication fee is 2,000 CHF (Swiss Francs) per paper.
- Submissions are possible from now on until 31 August 2021.
- Questions? Please contact us:
 Michael Kühn, Sonja Martens and Viktor Bruckman
 (applsci.ere.equ@gfz-potsdam.de)

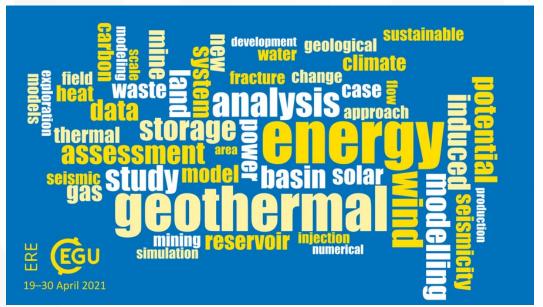




ERE Twitter Account run by Maria Wetzel









https://twitter.com/ERE_EGU



ERE ECS team and activities

Communication

 ERE-ECS Slack channel introduced to have a platform for chat-based and transparent planning, discussion and communication of activities.



- Regular bi-monthly meetings.
- If you want to get involved, contact us via mail with a short introduction and your ideas.

Expansion of core ECS team

- Currently over 5 active members.
- Introduction of the new team will follow soon.
- Get involved to become the new incoming ERE-ECS representative from 2022 on!







Maria Wetzel







ERE ECS team and activities

Online talks and EGU campfires

- Planned from **summer 2021** on.
- For PhD-students/early career scientists, who are looking for opportunities to **promote their work** in the ERE community and network with peers.
- Test-run: Collaboration with GMPV planned for 16 Jun, 11:00-12:00 CET on the topic "Sustainability" (Mining, CCS, Geothermal).
- Invitation will follow via Twitter and GMPV blog.
- Call for presentations

Call for presentations

Use this form to propose a presentation for the EGU ERE ECS online talks (#EGUCampfires)



Networking event during vEGU21, Tue, 27 Apr, 18:00–19:00 (CET)

- Chance to join and have a chat with us and other ECS from ERE!
- Casual meet up on gather town and an exciting quiz.

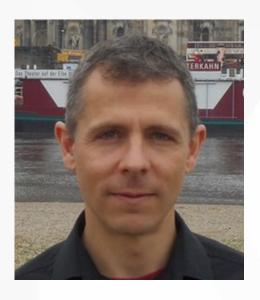






2020 Division Outstanding ECS Award

The European Geosciences Union presents the award to



Estanislao Pujades

for his outstanding research on Underground Pumped Storage Hydropower using abandoned mines and its interaction with groundwater.

Estanislao gave his award lecture on 27 April 2021.



2021 Division Outstanding ECS Award

The European Geosciences Union presents the award to



Giorgia Dalla Santa

for her outstanding research on shallow geothermal systems for building conditioning.

Giorgia gave her award lecture on 27 April 2021.



1. vEGU21: Gather Online





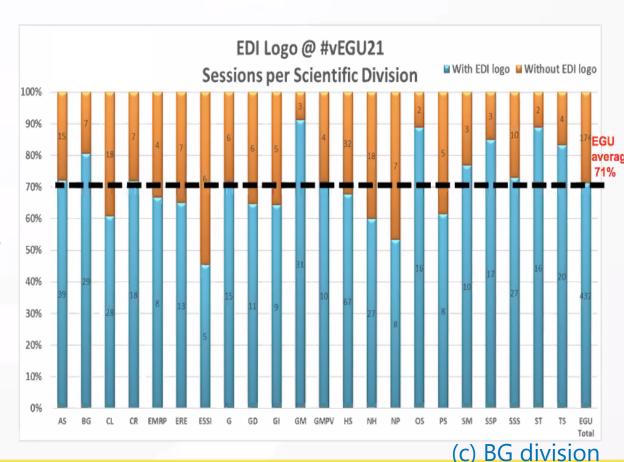
EDI Logo

Session conveners fulfill all three criteria:

Include conveners from multiple countries and institutes

- Have conveners from different career stages, including at least one ECS
- Include conveners that represent more than one form of gender identity

edilogo@egu.eu





vOSPP competition

Abbreviation for: virtual Outstanding Student and PhD candidate Presentation (OSPP) Awards

Evervone can vote!

13:37-13:39 | EGU21-13802 🖈 | ECS | Highlight | vOSPP 🛂

Visualizing the Energy Production, Imports and Exports for Countries

Luisa Vargas Suarez and Jason Donev

How to cite: Vargas Suarez, L. and Donev, J.: Vis 19–30 Apr 2021, EGU21-13802, https://doi.org/

Post a comment

vOSPP judging

vOSPP judging on display materials

Please rate the display materials with regarding to the 3 given criteria. Hereby, 0 fulfils a criterion the least and 10 fulfils it the most. You can adjust your vote at any time before 30 April 2021.

Relevance of the study 0 5 10 Scientific accuracy 0 5 10 Clarity of presentation 0 5 10

Submit vote



Previous division meeting slides online

ERE ENERGY, RESOURCES AND THE ENVIRONMENT

Division meeting reports

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The EGU Division on Energy, Resources and the Environment organises a division meeting each year at the EGU General Assembly. During this event, the division president reports on division activities (awards and medals, publications, current and next year General Assemblies), Union-wide news, presents the current division officers and runs the election of new ones. This page features the minutes and/or presentation slides of previous meetings.

- 🔁 Slides of the ERE Division meeting 2020 (PDF document, 1.1 MB)
- 🔁 Slides of the ERE Division meeting 2019 (PDF document, 1.9 MB)
- 🚨 Slides of the ERE Division meeting 2018 (PDF document, 1.5 MB)
- 🔁 Slides of the ERE Division meeting 2017 (PDF document, 5.5 MB)
- 🔁 Slides of the ERE Division meeting 2016 (PDF document, 2.6 MB)
- 🔁 Slides of the ERE Division meeting 2015 (PDF document, 3.0 MB)
- 🚨 Slides of the ERE Division meeting 2014 (PDF document, 11.9 MB)
- 🔁 Slides of the ERE Division meeting 2013 (PDF document, 2.4 MB)
- 🗷 Slides of the ERE Division business meeting 2012 (PDF document, 235.6 KB)
- ☑ Slides of the ERE Division business meeting 2011 (PDF document, 771.7 KB)
- 🔁 Slides of the ERE Division business meeting 2010 (PDF document, 214.7 KB)
- ☑ Minutes of the ERE Division business meeting 2009 (PDF document, 54.2 KB)

Meet you next year 3 - 8 April 2022

http://www.egu.eu/ere/reports/



EGU feedback survey

- Provide your feedback until May 31st
- EGU is a bottom-up institution, therefore we take your concerns, ideas and suggestions seriously
- Keep in mind that organizing vEGU21 was a new experience for all of us, organizers, conveners and participants

https://survey.zohopublic.eu/zs/JahpPL

Thank you!