

Energy, Resources & the Environment (ERE)

Division Meeting - 11 April 2019

Sonja Martens



Meetings | Publications | Outreach | www.egu.eu

How is the EGU run?

- **Council** is the highest decision-making body in EGU: Consists of the President, Vice President, General Secretary, Treasurer, Division Presidents and the Executive Secretary.
- **EGU Executive:** Consists of the President, Vice President, General Secretary, Treasurer, and Executive Secretary.
- **EGU** has **eight Union-wide committees** reporting to Council
- The **EGU** is a **bottom-up organization**.



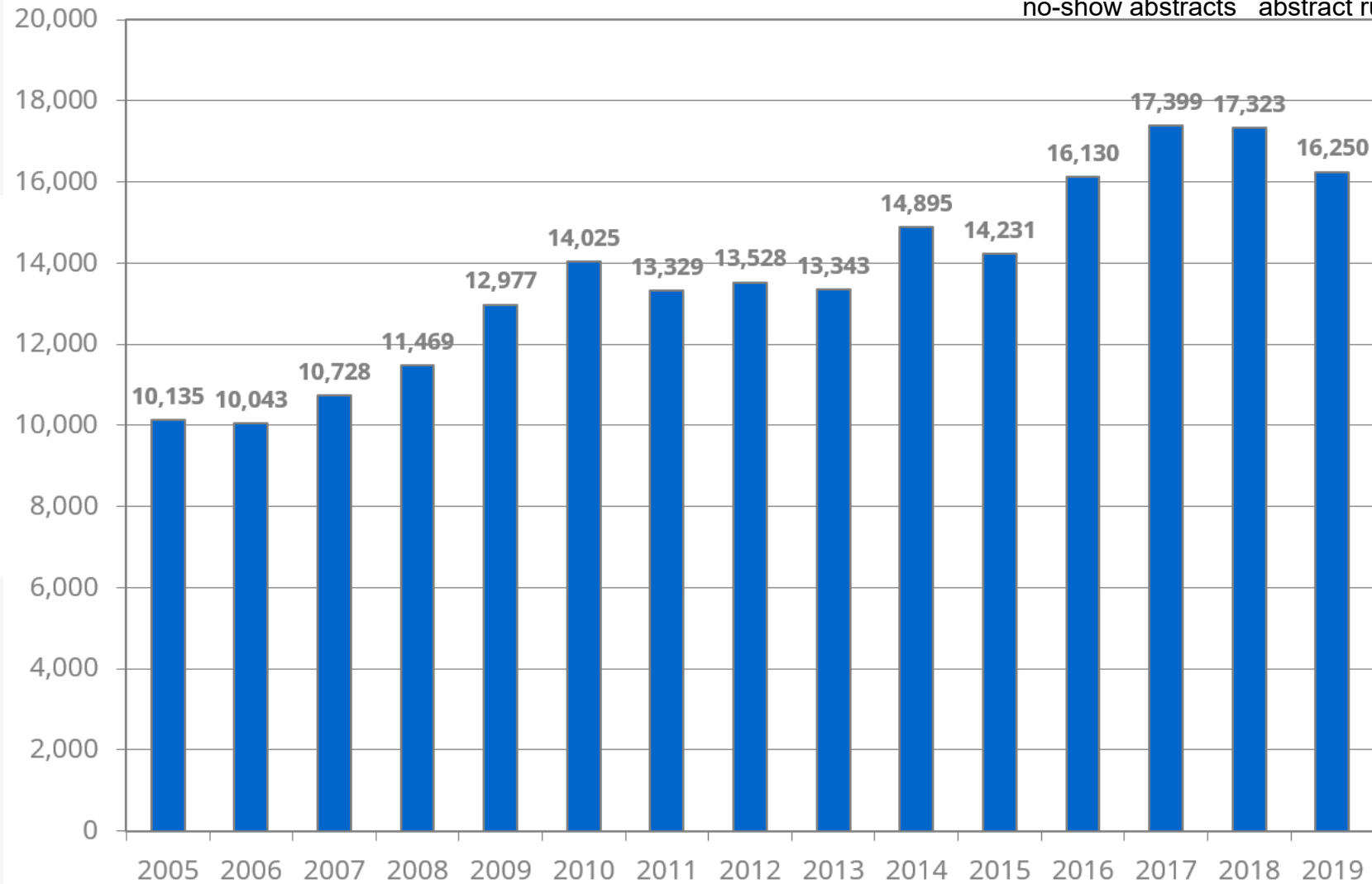
EGU General Assembly 2019 Facts

As of 5 April, the Assembly 2019 provides

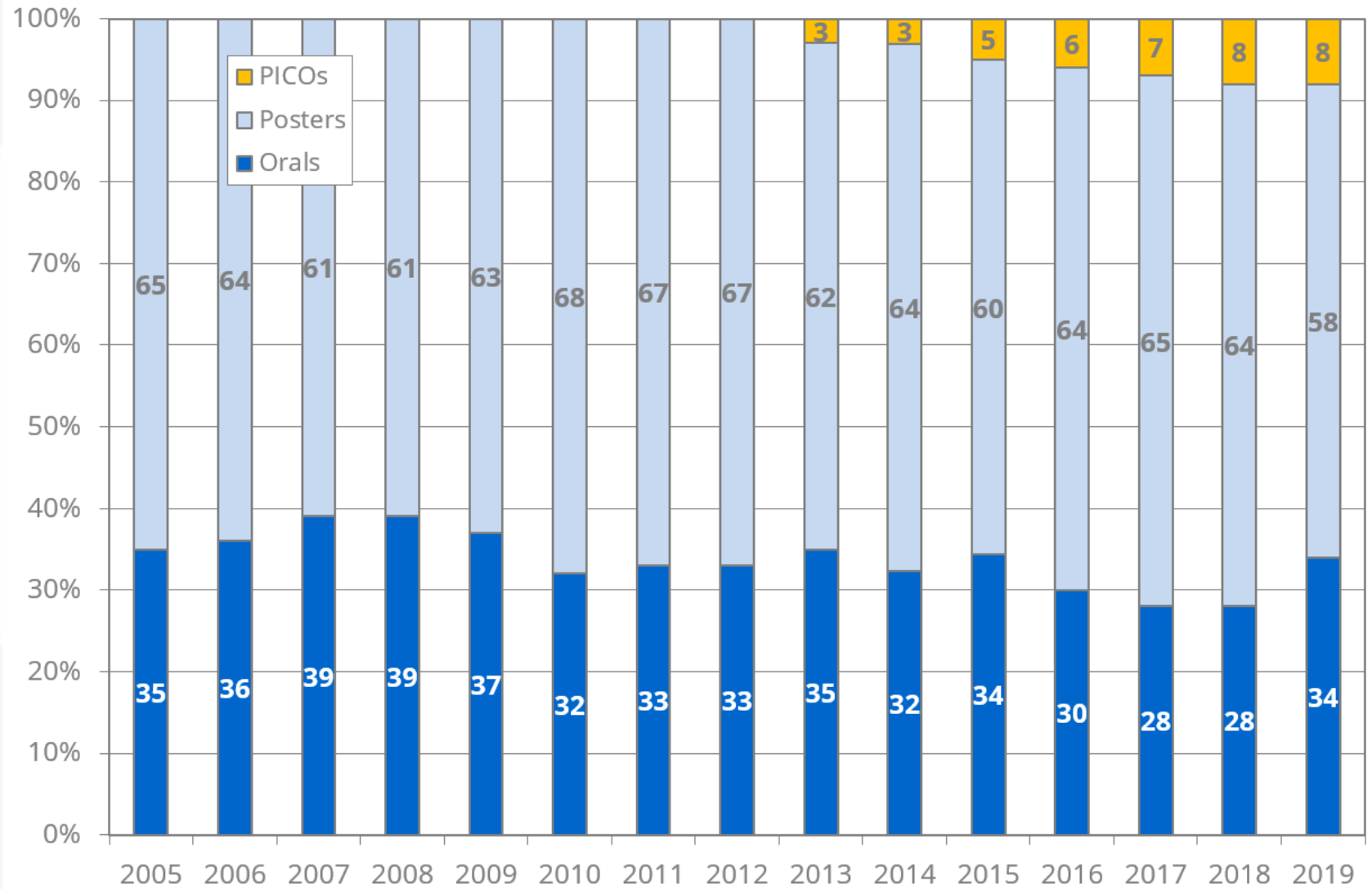
- 16,250 abstracts in programme | -6.2% relative to 2018
- 5,531 orals | 9,432 posters | 1,287 PICOs | ratio 34 / 58 / 8
- 14,283 registrations in advance | +12.17%
- 683 unique scientific sessions | 87 short courses | 338 side events (total 1108)
- 508 out of 683 scientific sessions are co-organized (74.4%), thereof 24 ITS
- Original sessions 1471; 1108 still active, 363 withdrawn

Abstracts in programme 2005 - 2019

2018 withdrawal of 2019 one first-author
no-show abstracts abstract rule



Presentation ratio 2005 - 2019



EGU Today

- EGU Today is a daily newsletter highlighting interesting workshops and lectures among others (new: digital format)
- Have a look at <https://www.egu.eu/egutoday/>

Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs share great sessions, research and interviews
- Follow them at geolog.egu.eu and blogs.egu.eu

Social Media

- Sessions are advertised on Twitter (**@EuroGeosciences**) and Facebook (**European Geosciences Union**)
- Follow us on Instagram (**@EuroGeosciences**)
- Keep updated by following **#EGU19**

8 press conferences (Monday-Wednesday)

GeoLog

What's on for early career scientists at the Assembly in 2018
Olivia Tran · April 4, 2018



Take a break, grab a coffee and get your thoughts away from the buzz of the conference at the EGU Lounge. (Credit: EGU/Photo)



EGU @EuroGeosciences
The European Geosciences Union is an interdisciplinary, non-profit association dedicated to the promotion of the

Tweets 34,3 Tsd. Folge ich 721 Follower 28,5 Tsd. Gefällt mir 6.334

Tweets Tweets & Antworten Medien

EGU @EuroGeosciences · 57 Min.
A #Glacier in Pakistan Surges with Clocklike Regularity
Every two decades the Khurdopin glacier moves in a predictable pattern. (EGU/Photo)

Instagram

eurogeosciences **Folgen**

239 Beiträge 1.343 Abonnenten 125

European Geosciences Union Official account
Tweet us at @eurogeosciences Read the latest
egu.eu/6QXHFX



A greener General Assembly

The EGU and Copernicus are working towards minimising the GA's carbon footprint. We need everyone's help!

- Travel by train when possible. SBB offers a discount for GA participants
- Offset CO₂ emissions from your travel. On-site terminal in entrance hall
- EGU Today online only
- No programme book
- Carpeting in poster halls X only (noise reduction)
- Water fountains – bring your own bottle
- Bring your own coffee cup



Townhall meeting 'The carbon footprint of EGU's General Assembly', Thursday, 19:00 – 20:00, room -2.47

Working Group on Diversity & Equality

- Established in Autumn 2018
- Group works closely with the EGU Outreach Committee and Council
- Members: Alberto Montanari (EGU President), Claudia Jesus-Rydin (Chair), Holly Stein, Daniel Conley, Marie Bocher, Liviu Matenco
- Meeting 7 (2nd live) on 8 April 2019. Topics included:
 - Awards
 - Countries
 - Women
 - EGU accessibilities (physical, technological, remote)
 - Work-life balance @ EGU
- Diversity & Equality reception on 9 April 2019 (EGU Booth)



Contact:
Claudia Alves de Jesus Rydin
diversity@egu.eu

<https://www.egu.eu/outreach/diversity>

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
& the Environment

Division



ERE Division Officers 2018/19

- President/PG Chair: Sonja Martens
- Deputy President: Chris Juhlin
- Officer Publications: Michael Kühn
- Officer “above ground”: Viktor Bruckman
- Officer Outreach & Education: Maria Ask
- Economics & Integration: Kristen Mitchell
- Officer “subsurface”: Suzanne Hangx
- ECS Representative: Natalie Nakaten



S. Martens



C. Juhlin



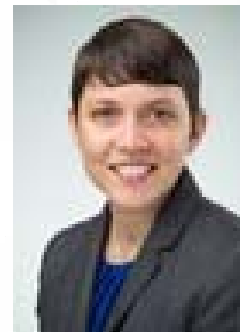
M. Kühn



V. Bruckman



M. Ask



K. Mitchell



S. Hangx



N. Nakaten

ERE Division Officers 2019/20

- President/PG Chair: Sonja Martens
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S. Martens



C. Juhlin



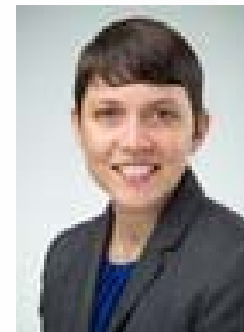
M. Kühn



V. Bruckman



M. Ask



K. Mitchell



N. Nakaten

ERE Division presidential election

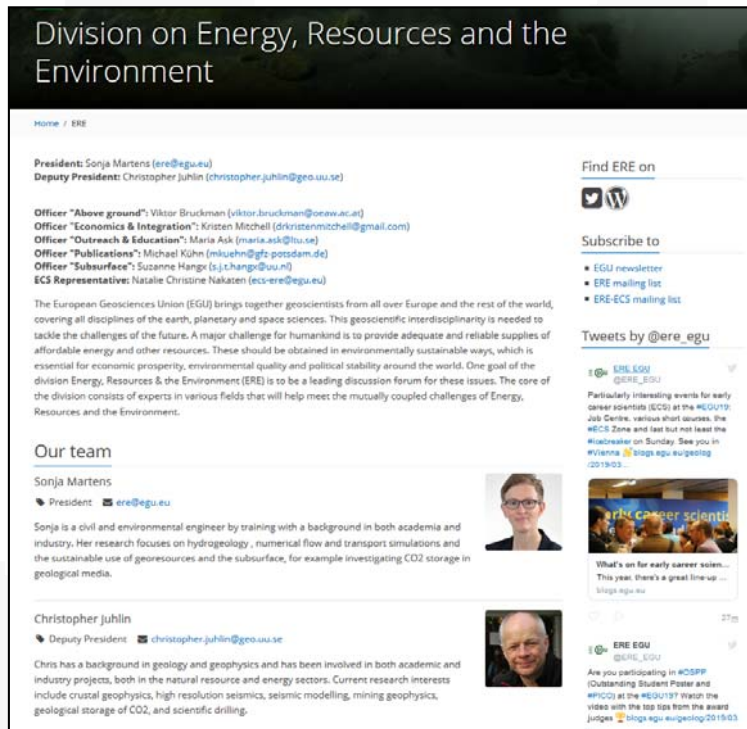
- Looking for at least two candidates
- Timeline
 - June 2019: call for nominations
 - September 2019: deadline for nominations
 - November 2019: election
- New president (in-coming) will shadow current president for one year
- New president will take over at EGU GA in 2021
- Check the nomination guidelines if you are interested:

Anyone nominated as a candidate for division president must be an existing EGU member and have demonstrated previous experience of contributing to the running of EGU. This could be as a secretary or officer within a division or as a member of one of the eight committees that run the organisation....

<https://www.egu.eu/about/best-practices/guidelines/>

Activities of ERE Division

- Plan and organize the ERE sessions for the GA
- Attract ERE early career scientists
- Publication of an annual ERE special issue
- Run the ERE website and twitter



Division on Energy, Resources and the Environment

Home / ERE

President: Sonja Martens (ere@egu.eu)
Deputy President: Christopher Juhlin (christopher.juhlin@geo.uu.se)

Officer "Above ground": Viktor Bruckman (viktor.bruckman@onaw.ac.at)
Officer "Economics & Integration": Kristen Mitchell (kristenmitchell@gmail.com)
Officer "Outreach & Education": Maria Aik (maria.aik@lnu.se)
Officer "Publications": Michael Kühn (mkuehn@gtf.postdam.de)
Officer "Subsurface": Suzanne Hangx (s.j.chang@uu.nl)
ECS Representative: Natalie Christine Nakaten (ecs-ere@egu.eu)

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

Our team

Sonja Martens
President ere@egu.eu

Sonja is a civil and environmental engineer by training with a background in both academia and industry. Her research focuses on hydrogeology, numerical flow and transport simulations and the sustainable use of georesources and the subsurface, for example investigating CO2 storage in geological media.

Christopher Juhlin
Deputy President christopher.juhlin@geo.uu.se

Chris has a background in geology and geophysics and has been involved in both academic and industry projects, both in the natural resource and energy sectors. Current research interests include crustal geophysics, high resolution seismics, seismic modelling, mining geophysics, geological storage of CO2, and scientific drilling.

Find ERE on [Twitter](#) [LinkedIn](#)

Subscribe to

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

Tweets by @ere_egu

Particularly interesting events for early career scientists (ECS) at the #EGU19: Job Centre, various short courses, the #ECS Zone and last but not least the #Breaker on Sunday. See you in #Vienna blogs.egu.eu/geotop/2019/03/

Are you participating in #OBSP (Outstanding Student Poster and #FICO) at the #EGU19? Watch the video with the top tips from the award judges blogs.egu.eu/geotop/2019/03/

<http://www.egu.eu/ere/home/>



Tweets 304 Folge ich 89 Follower 112 Gefällt mir 269

EGU @EuroGeosciences · 6. Apr.
The EGU General Assembly officially kicks off tomorrow! Follow all of the week's conference action through our official hashtag #EGU19!

EGU General Assembly #EGU19

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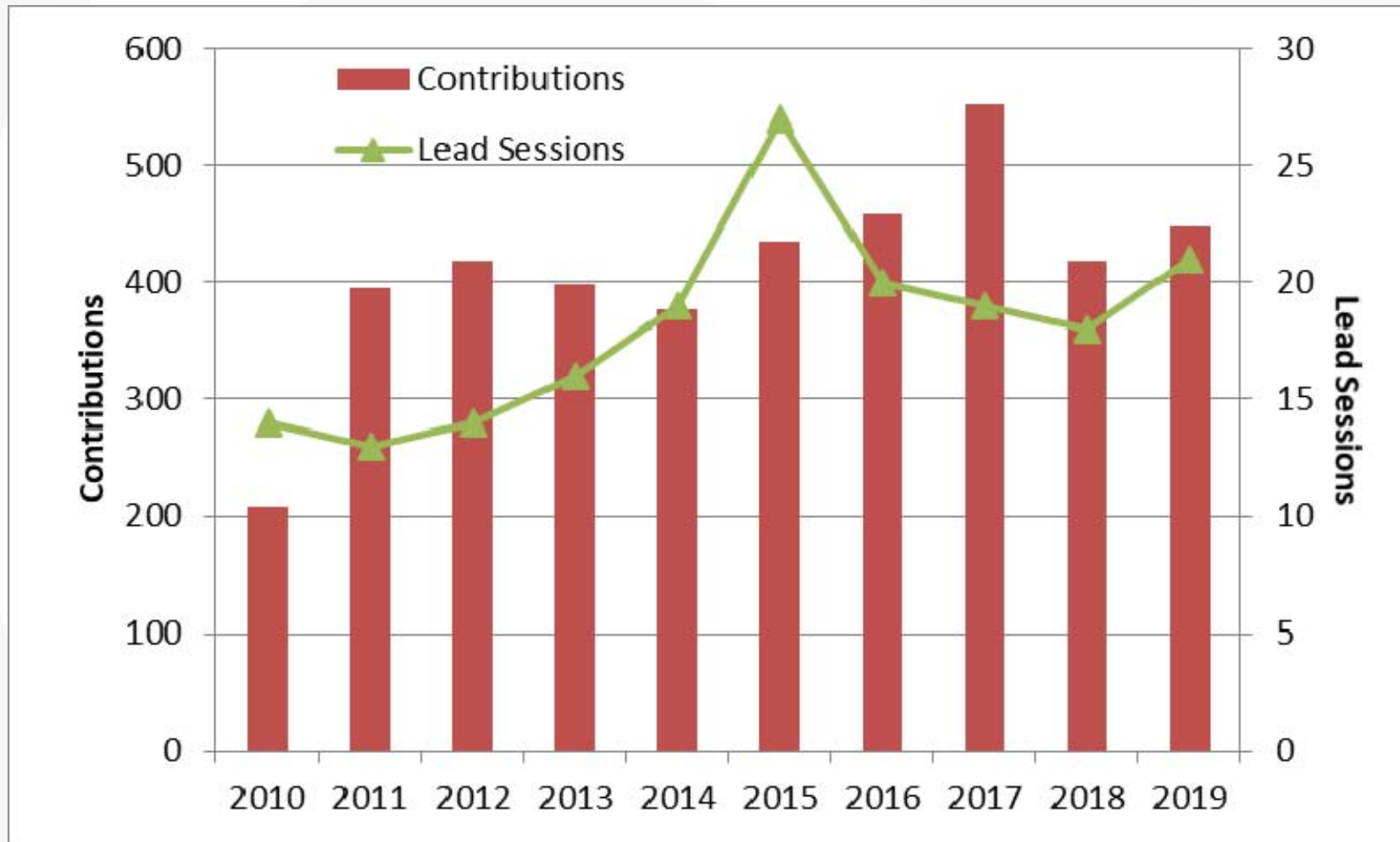
ERE EGU @ERE_EGU · 6. Apr.
Where will our #energy come from? – Sonja Martens, President of the #ERE Division, was interviewed by @acv_official about and energy resources and the #EGU19. Link: acv.at/presse/Wissens...

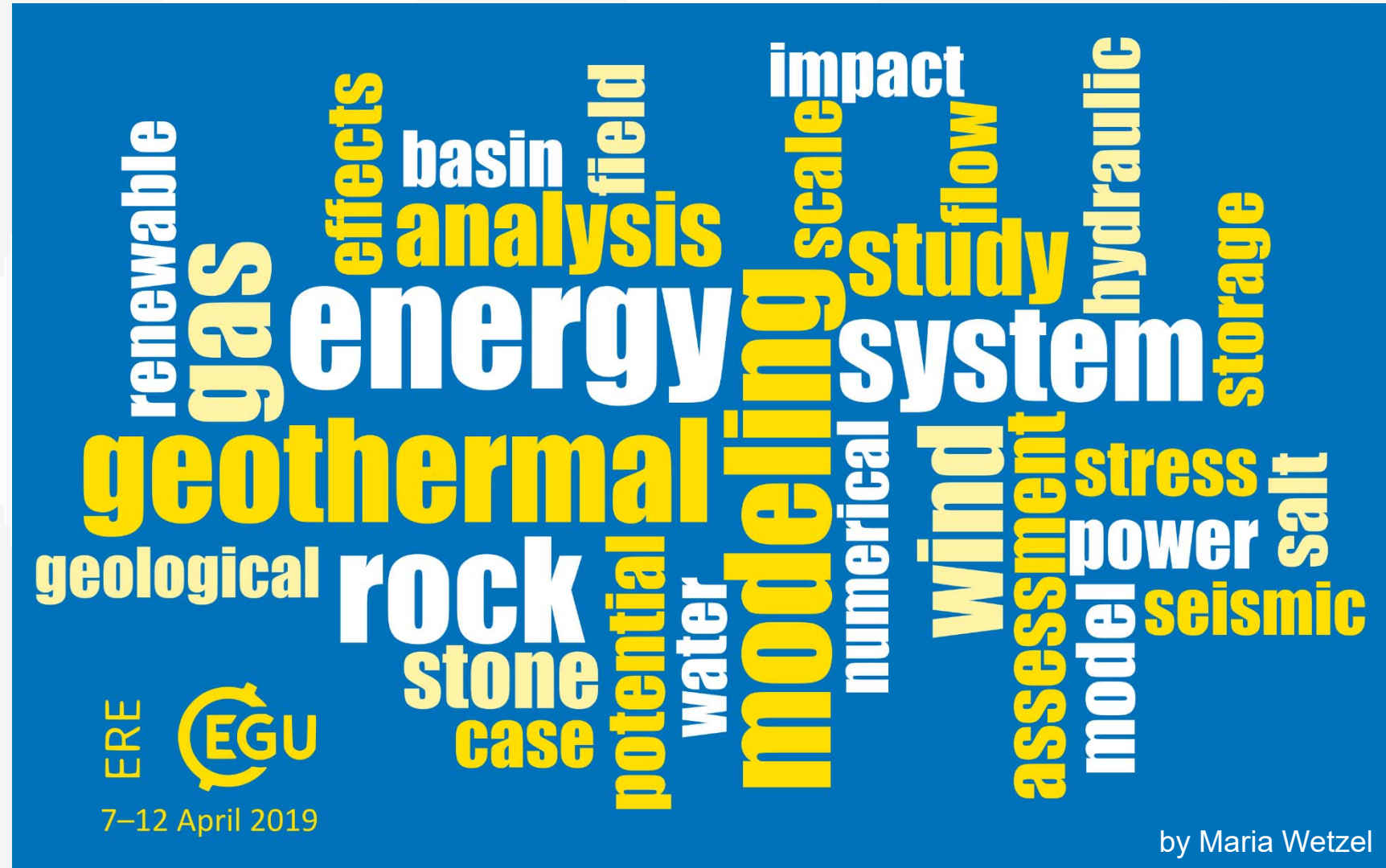
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ERE EGU @ERE_EGU · 5. Apr.
Next Friday at the #EGU19: Oral presentations on #unconventional #hydrocarbon #resources (ERE3.3), #EnergyMeteorology (ERE2.1) and Distributed #renewable #energy systems (ERE2.2)
Check out the program: egu.eu/0LLWTN

https://twitter.com/ERE_EGU

ERE – Scientific Programme





ERE



7–12 April 2019

by Maria Wetzel

Scientific Programme of ERE in 2019

- **ERE1 – Integrated studies**

- ERE1.1 Energy, Resources & the Environment – Open session

- **ERE2 – Non-carbon based energy**

- ERE2.1/AS1.11 Energy Meteorology
- ERE2.2 Spatiotemporal modelling of distributed renewable energy systems
- ERE2.3/OS2.6 Marine renewable energy; resource characterisation, interactions and impacts
- ERE2.5 Biomass in future energy and resource systems: impact on land use, climate and environmental services
- ERE2.6/GMPV6.8/HS11.15 Conventional and unconventional geothermal resources: Advances in integrated approaches for exploration and monitoring
- ERE2.7 Numerical modeling in geothermics

- **ERE3 – Carbon based energy**

- ERE3.1/NH5.10/OS2.7 Gas hydrates in marine sediments: a potential resource and its influences on slope stability
- ERE3.2 Petroleum exploration and production and their impact on the environment
- ERE3.3 Unconventional hydrocarbon resources: Advances and new technologies

- **ERE4 – Mineral Resources**

- ITS2.2/ERE4.4 The New Roadmap for Mineral Exploration: Challenges and Innovative approaches

Scientific Programme of ERE in 2019

- **ERE5 – Geo-storage for a sustainable future**
 - ERE5.1 Salt deposits as reservoir and storage space: research and development in subsurface and solution mining activities
 - ERE5.2 Field studies on geological CO₂ storage as a part of future energy systems
 - ERE5.4 Assessment of barrier integrity and geoscientific, technological, social and regulatory challenges in nuclear
- **ERE6 – Thermal-hydro-mechanical and chemical processes related to geoenergy**
 - ERE6.1 Integrated lab, field and modelling studies in subsurface utilization
 - ERE6.2/EMRP1.41 Evaluation of coupled reservoir processes: from laboratory to field scale
 - ERE6.4/EMRP1.71/TS2.5 Fracture, mechanics and flow in tight reservoirs
 - ERE6.5/EMRP1.82/SM6.5 Induced/triggered seismicity in geo-energy applications: monitoring, modeling, mitigation, and forecasting
 - ERE6.6/EMRP1.91/NH4.7/SM6.4 Hydraulic testing, frac operations and induced seismicity in geoenergy projects
- **ERE7 – Geo-materials from natural resources**
 - ERE7.1/GI4.9 Geomaterials in construction: resources, properties, performance, environmental interactions, and decay
 - ERE7.2/EOS11.2 Heritage Stones: construction and restoration materials for sustainable development
- **ERE8 – Further interdisciplinary sessions and short courses related to ERE**

Division awards

- **Outstanding Student Poster or PICO (OSPP) Award**
 - **Registration** is open in association with abstract submission.
 - Your **support** is needed **to evaluate the presentations** on-site (one has to have a PhD to be eligible serving as OSPP judge).
 - **Awardees** receive a conference fee waiver for the next EGU GA and a publication free of charge in an EGU Journal.

- **Outstanding Early Career Scientist Award**
 - **Definition:** An Early Career Scientists (**ECS**) is an undergraduate or postgraduate (Masters/PhD) student or a scientist who has received his or her highest degree (BSc, MSc, or PhD) within the past seven years.
Provided parental leave fell into that period, up to one year of parental leave time may be added per child, where appropriate.
 - **Nominations** are sought by an open call.
 - **Proposals** need to be submitted to the Division president by **15th June**.



Outstanding Student Poster Presentation

The European Geosciences Union presents the OSPP award to

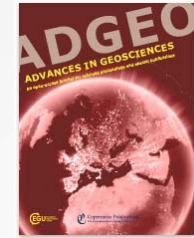


Sarah Clancy

for the presentation entitled

“The optimisation of technically recoverable reserves from shale gas production: optimum lateral length and well pad size as constrained by surface and subsurface carrying capacity”

presented at the EGU General Assembly 2018 in Vienna.



- ERE special issues from 2013-2017 were published in Energy Procedia and **Advances in Geosciences (ADGEO)** in 2018.
- ERE special issue from this GA to come again in ADGEO.
- Any presentation (oral, poster, PICO) from ERE division or co-organized session is eligible for publications. “No-shows” will be excluded.
- Manuscripts will have 4-10 pages.
- **Guidelines for preparations and templates** are available on the ADGEO website: <https://www.advances-in-geosciences.net/>
- Publication fee depends on the length of paper and your home institution.
- Deadline for submission: **31 May 2019**. Please add your abstract number.
- Reviews by ERE officers, conveners and authors of the GA 2019. If you submit a manuscript we expect you to take part in the reviewing process.
- Publication is planned for Fall 2019.
- **Contact:** Michael Kühn + Sonja Martens (adgeo.ere.egu@gfz-potsdam.de)

Set up the programme for the GA 2020

- Become involved as convener of a (new) session or presenter.
- Please also include young colleagues.
- Strengthen topics and/or try to cover emerging topics.
- Avoid duplications or overlap among sessions.
- Advertise your session in your scientific community.

GA 2020 timeline (working version):

24 Jun – 5 Sep 2019

Public call-for-sessions

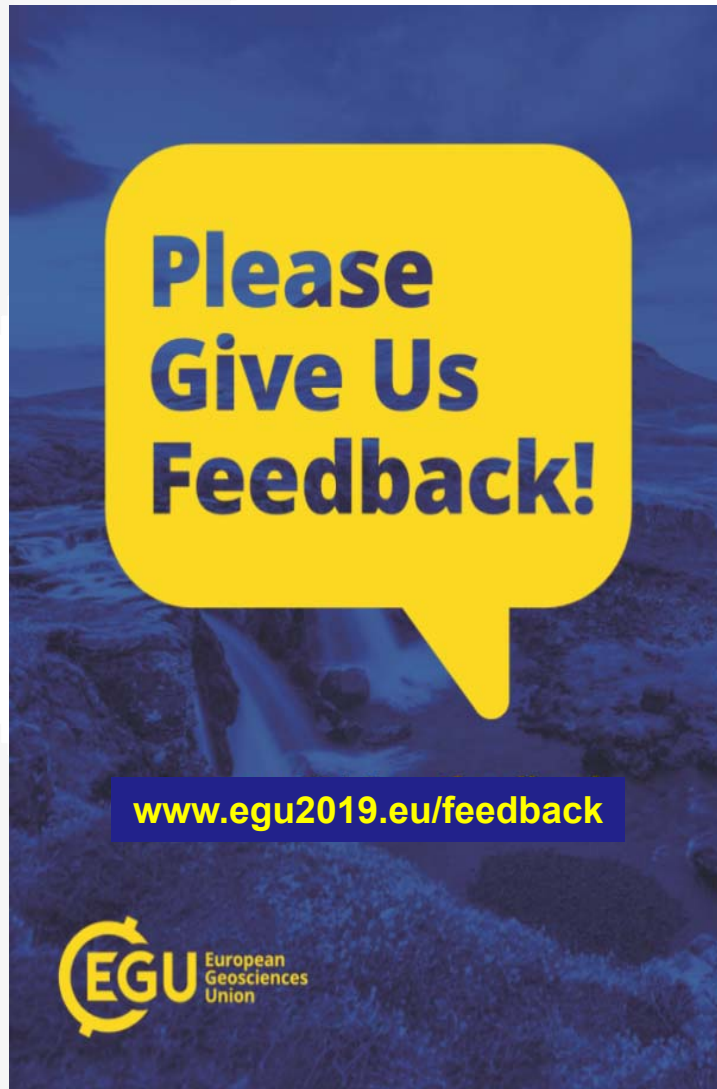
9 Sep – 9 Oct 2019

Session programme finalization

15 Jan 2020

Abstract submission

Make use of the GA Survey



**See you next year in
Vienna: 3 - 8 May 2020**