

# Energy, Resources & the Environment (ERE)

Division Meeting

12:15-13:15 Room M1 | 28 April 2017

Chris Juhlin and Sonja Martens



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

# Agenda

1. Welcome
2. Introduction to EGU and ERE
3. Report on the Activities of EGU since last year
4. Report on the Activities of ERE since last year
5. ERE Division Officers
6. Awards
7. Division Presidents Election 2017
8. Special Issue in Energy Procedia
9. Any other business

## What is a division meeting?

- **Division meetings** (DM) are organized annually during the General Assembly (GA).
- **EGU Programme Committee** (PC) takes care that the division meetings are adequately advertised in the GA programme.
- Division presidents and/or division representatives in the PC should **advertise the division meeting** at relevant sessions.
- DM are **open to all interested meeting participants**.
- **Young people** are especially encouraged to attend.
- Since EGU is a bottom up organization we **need your feedback** to improve the GA and the EGU.
- We run the EGU for you!

## How is the EGU run?

- **Council** is the highest decision-making body in EGU: Consists of the President (chair), 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:
  - Programme Committee (coordinates the General Assembly)
  - Outreach committee (Education, Outreach, News, and Sponsorship)
  - Publications Committee (EGU journals)
  - Awards Committee (EGU medals)
  - Finance Committee (EGU finances)
  - Nominations Committee (nomination processes)
  - Education Committee (activities related to secondary and tertiary education)
  - Topical Events Committee (topical meetings, conference series, workshops and training schools).

## New Union president: Jonathan Bamber

**Jonathan Bamber** was elected as EGU President/  
Vice-President for the term 2016-2020 in the EGU  
Autumn 2015 elections.

He was inaugurated during the EGU plenary meeting  
on 18 April 2016 in Vienna.

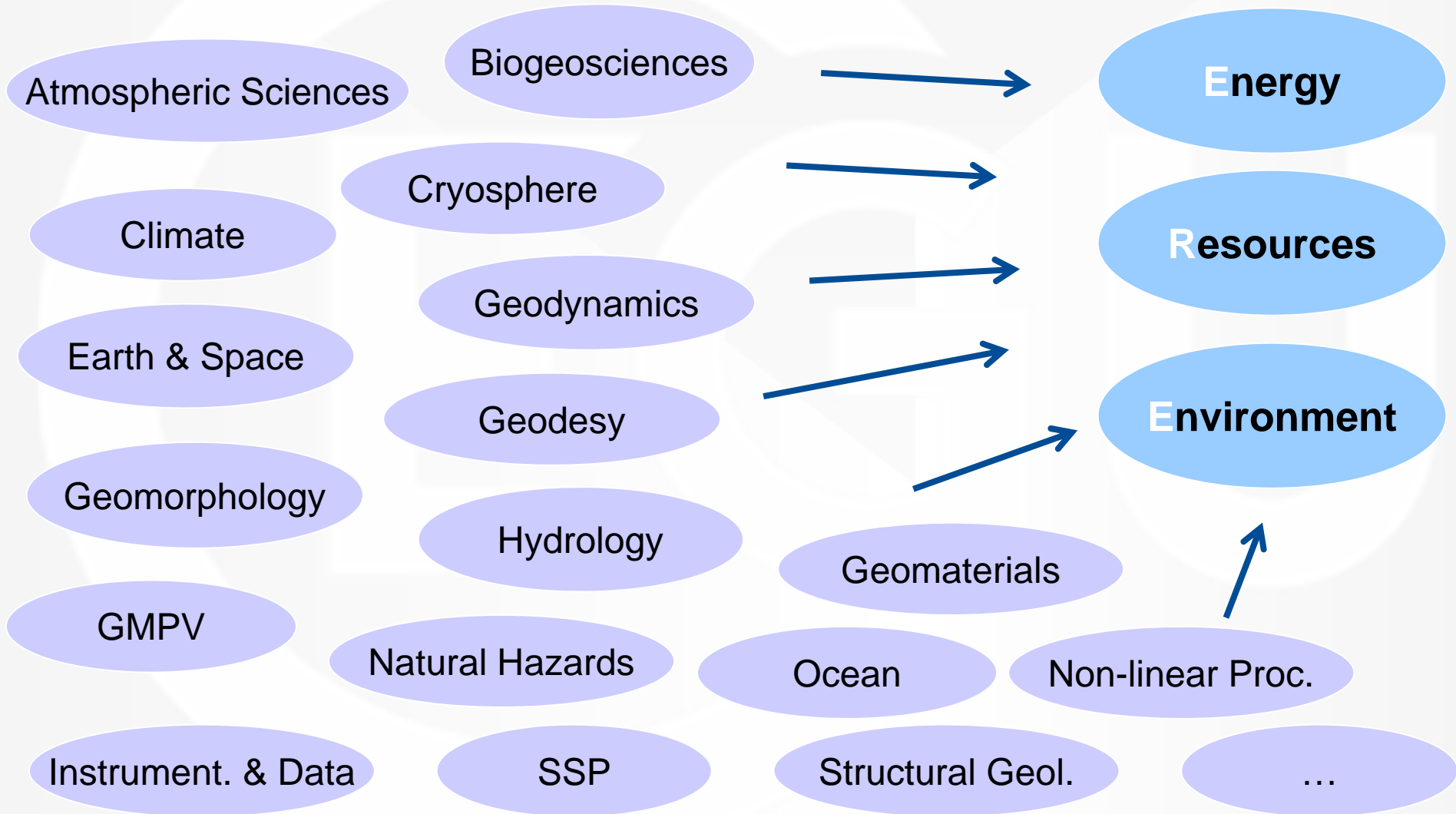
He served as Vice-President (President-Elect) for the  
first year, now as the **Union President for two years**  
and finally as Vice-President (Past-President) for the  
fourth year.



## Aim of our 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.

# Multi-disciplinarity of ERE



## Activities of EGU

- **EGU Executive Secretary and Office**
  - Executive Secretary - Philippe Courtial.
  - EGU Office: Luisenstr. 37, 80333 Munich, Germany.
- **Future General Assemblies**
  - 8 - 13 April 2018, Vienna
  - 7 - 12 April 2019, Vienna





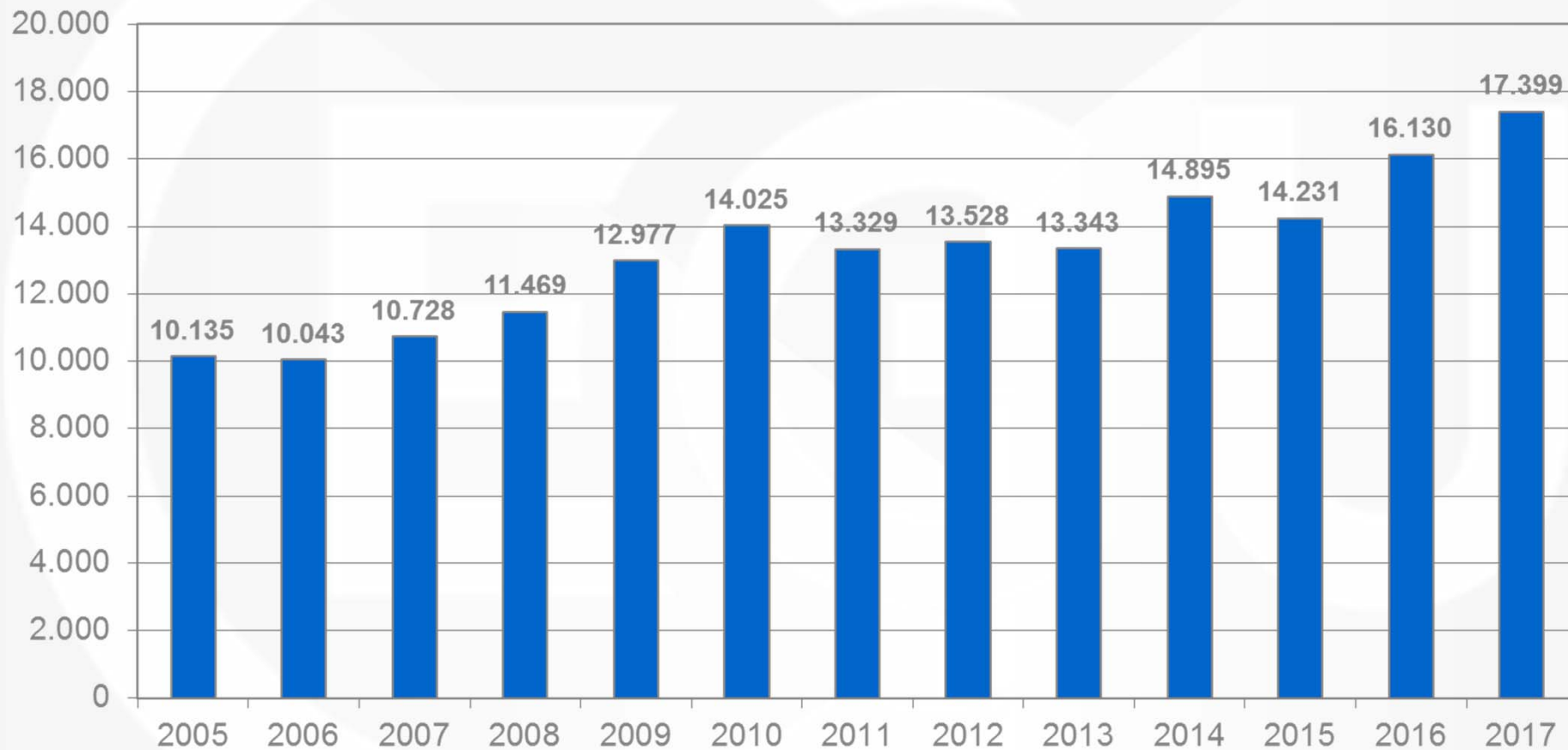
## EGU General Assembly 2017 Facts

As of 19 April, the Assembly 2017 provides:

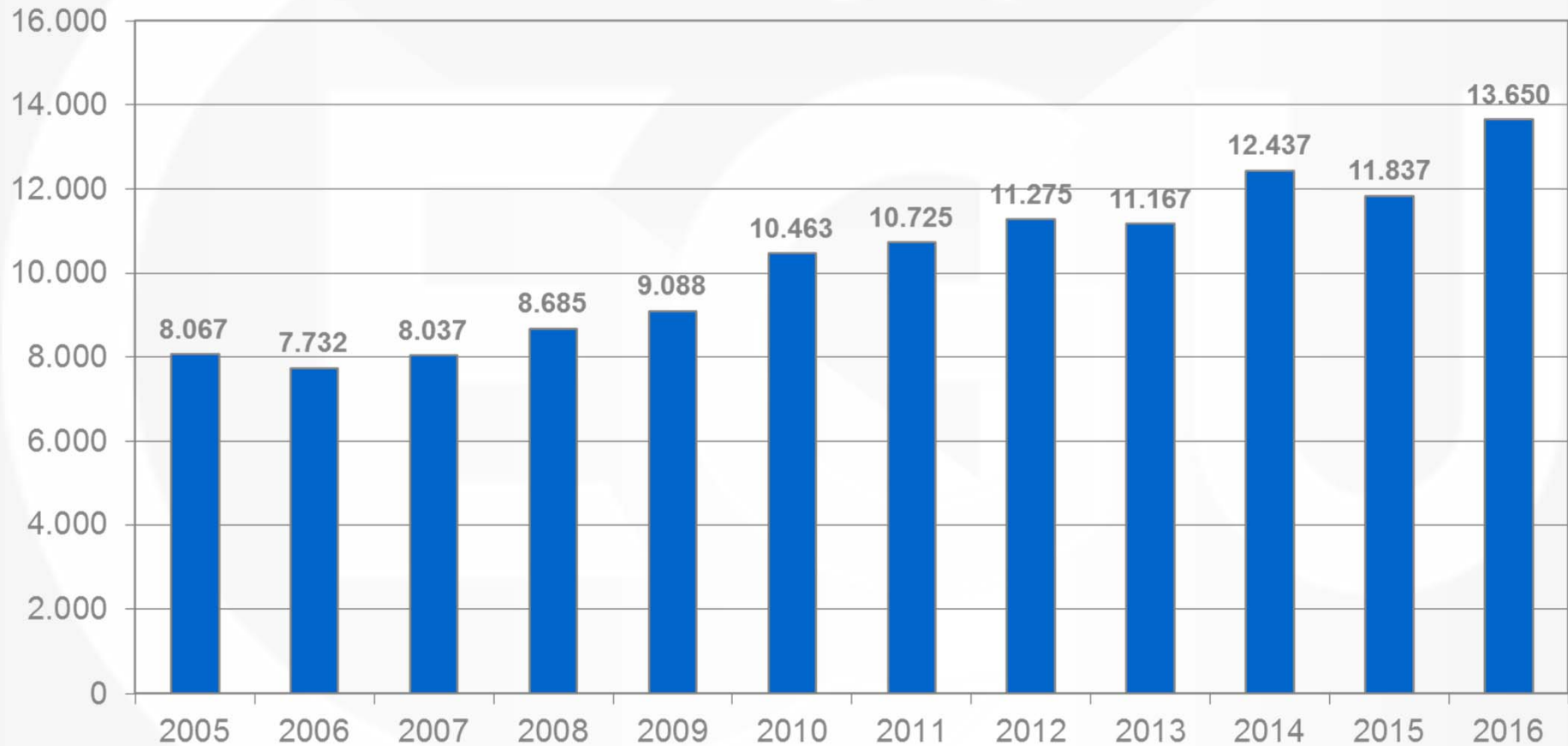
- 17,399 papers in programme | +7.87% (2016)
- 4,849 orals | 11,312 posters | 1,238 PICOs | ratio 28 / 65 / 7
- 11,331 registrations in advance | +3.55% (2016)
- 649 unique scientific sessions | 88 short courses | 322 side events\*
- 383 out of 649 scientific sessions are co-organized (59%)
- The 383 co-organized include 12 IE sessions with 261 presentations
- Original sessions: 1,432; 1,059 still active, 373 withdrawn
- Withdrawn: 356 scientific sessions and 17 side events

\*Side events include: SSE (w/o US), OEM (w/o EOS), STM (w/o SC), FAN, AM

## Papers in programme 2005–2017



## Participants at EGU Assemblies



## Communication Activities at the GA

### EGU Today

- EGU Today is a daily newsletter highlighting interesting workshops, lectures and GeoCinema screenings, amongst activities at the Assembly
- Paper copies will be distributed daily and are available to download at [http://www.egu2017.eu/egu\\_today.html](http://www.egu2017.eu/egu_today.html)

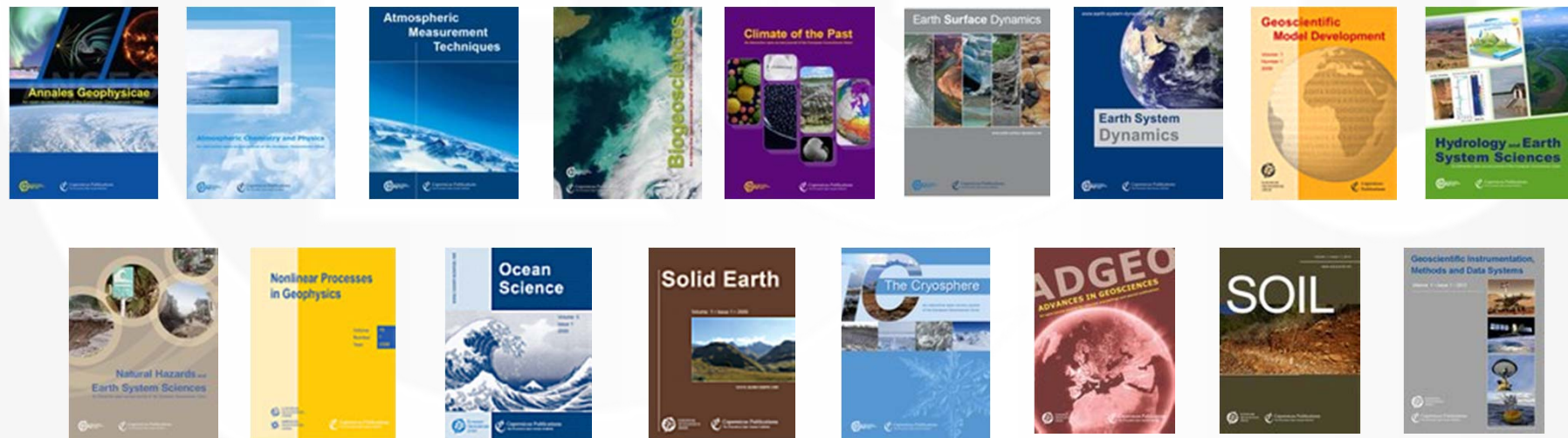
### Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at [geolog.egu.eu](http://geolog.egu.eu) and [blogs.egu.eu](http://blogs.egu.eu)

### Social Media

- Sessions will be advertised on Twitter ([@EuroGeosciences](https://twitter.com/EuroGeosciences)) and Facebook ([European Geosciences Union](https://www.facebook.com/EuroGeosciences))
- For behind the scenes access to the conference follow us on Instagram ([@EuroGeosciences](https://www.instagram.com/EuroGeosciences))
- Participants can ask questions & keep updated by following [#EGU17](https://twitter.com/EGU17)

- Advantages of Open Access
  - Immediate free access to the online article.
  - Increased citation through unlimited access.
  - Author retains copyright.
- EGU Journals are extremely successful with high impact.



# Meetings and Early Career Scientists

## Meetings Calendar

A hub of information on conferences and workshops in the geosciences.  
Add your meeting at [www.egu.eu/meetings/calendar/form](http://www.egu.eu/meetings/calendar/form)

## Training schools

There are two opportunities to get your training schools sponsored:  
1 June - 31 July and from 1 November - 31 December every year:  
<https://www.egu.eu/meetings/support-request/>

## Early Career Scientists

Early career scientists (ECS) can find out how to get involved in the Union & benefit from our ECS resources at [www.egu.eu/ecs](http://www.egu.eu/ecs)

## Jobs

We advertise geoscientific jobs for free at [www.egu.eu/jobs](http://www.egu.eu/jobs). Add yours or look for a new position.

## EGU Galileo conferences

### ■ Purpose of Galileo conferences

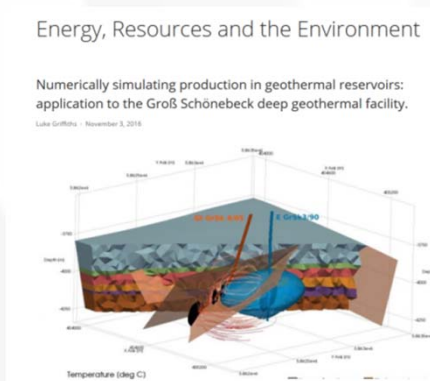
- Bring together about 100 internationally recognised scientists for a 3-5 days meeting to discuss and debate issues at the forefront of the discipline.
- Galileo conferences are financed by the participant's registration fees.
- Possibility to publish a special Galileo Conference proceeding issue in one of the EGU journals

### ■ Support

- EGU is putting at disposal the conference organization tools: web hosting, abstract, programme and registration management.
- EGU provides comprehensive organisational support by organizing e.g. venue, poster boards, catering, Wi-Fi facilities, etc.
- Support for the participation of Early Career Scientists (up to 5000 €)
- Submission periods are usually from 1. December until end of February of the following year.

# Activities of ERE

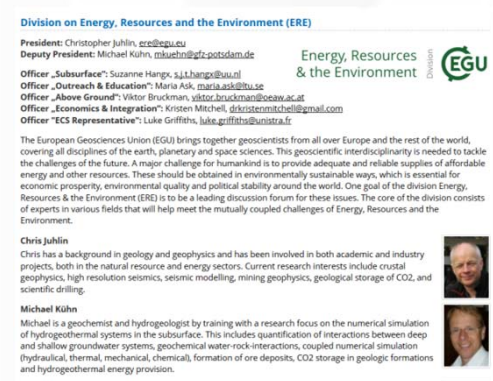
- Organization of ERE sessions at the EGU GA
- Contact with (potential) conveners
- Initiate new sessions
- Scheduling
- Attract ERE early career scientists
- Publication of extended abstracts in Energy Procedia
- ERE Blog, Twitter and website



<http://blogs.egu.eu/divisions/ere/>



[https://twitter.com/ERE\\_EGU](https://twitter.com/ERE_EGU)

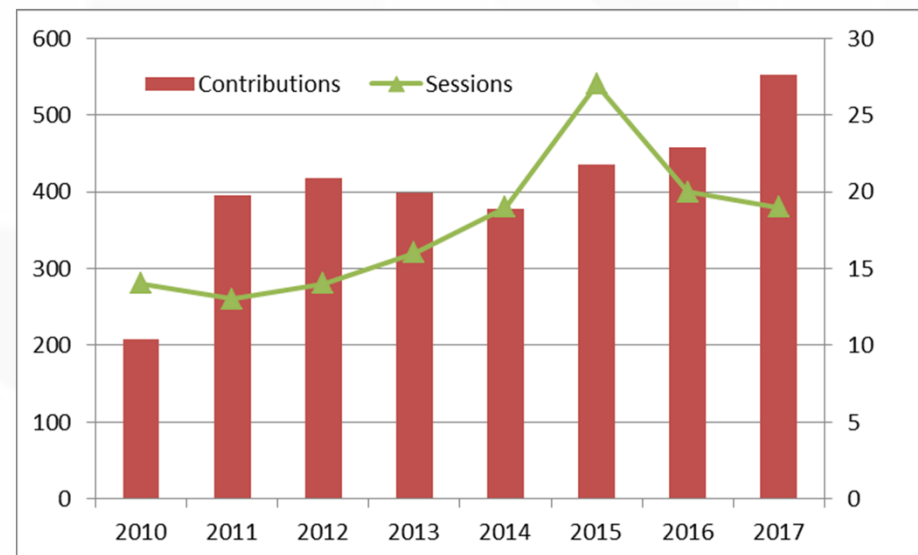


<http://www.egu.eu/ere/home/>



## Activities of ERE – Scientific Programme

- 2010: 208 contributions (with ERE in lead) in 14 sessions – 1.4 % of EGU
- 2011: 395 contributions (with ERE in lead) in 13 sessions – 3 % of EGU
- 2012: 418 contributions (with ERE in lead) in 14 sessions – 3 % of EGU
- 2013: 398 contributions (with ERE in lead) in 16 sessions – 3% of EGU
- 2014: 377 contributions (with ERE in lead) in 19 sessions – 2.5 % of EGU
- 2015: 435 contributions (with ERE in lead) in 27 sessions – 3.1 % of EGU
- 2016: 458 contributions (with ERE in lead) in 20 sessions – 2.9 % of EGU
- 2017: 552 contributions (with ERE in lead) in 19 sessions – 3 % of EGU



# Scientific Programme of ERE - 2017

- **ERE1 – Integrated studies**
  - ERE1.1 Energy, Resources & the Environment
  - ERE1.2 Energy and environmental system interactions - Policy and modelling
  - ERE1.4/EMRP4.40/TS2.6 Fracture, mechanics and flow in tight reservoirs
  - ERE1.6 Securing sustainable supplies of mineral resources for the low carbon economy
- **ERE2 – Impact of energy and resource exploitation on the environment**
  - ERE2.1 Environmental impacts of hydraulic fracturing: Measurements, monitoring, mitigation and management
  - ERE2.3 Petroleum exploration and production and their impact on the environment
- **ERE3 – Non-carbon based energy**
  - ERE3.1 Energy meteorology and spatial modelling of renewable energies
  - ERE3.2/OS4.8 Marine renewable energy; resource characterisation, interactions and impacts
  - ERE3.4 Conventional and unconventional geothermal resources: Advances in integrated approaches for exploration and monitoring
  - ERE3.5 Numerical modeling in geothermics
  - ERE3.6 The role of biomass in a sustainable bio-economy: implications for land use, climate and environmental services
  - ERE3.7/HS5.11 Renewable energy and environmental systems: modelling, control and management for a sustainable future

# Scientific Programme of ERE - 2017

- **ERE4 – Carbon based energy**

- ERE4.1/EMRP4.15/HS11.6/TS2.5 Mechanics and flows in shale rocks: properties and processes
- ERE4.3 Unconventional hydrocarbon resources: Advances and new technologies

- **ERE5 – Geo-storage for a sustainable future**

- ERE5.1 The future of geo-energy: understanding the subsurface for safer energy production and storage
- ERE5.4 Geological CO<sub>2</sub> storage: Field methods and analysis of field data from sites and natural analogues
- ERE5.5 Process quantification and modelling in subsurface utilization

- **ERE6 – Geo-materials from natural resources**

- ERE6.1 Geomaterials in construction: resources, properties, performance, environmental interactions, decay, and extractive industries waste management
- ERE6.2 Natural stone research and Heritage stone designation.

## ERE Division Officers

- **Recently:**

- President/PG Chair: Chris Juhlin (elected 2015-2017)
- Deputy President: Michael Kühn
- Officer “above ground”: Viktor Bruckman
- Officer Outreach & Education: Maria Ask
- Economics & Integration: Kristen Mitchell
- Officer “subsurface”: Suzanne Hangx
- Officer ECS Representative: Luke Griffiths



C. Juhlin



M. Kühn



V. Bruckman



M. Ask



K. Mitchell



S. Hangx



L. Griffiths

## ERE Division Officers

- **This term:**

- President/PG Chair: Sonja Martens (elected 2017-2019)
- Deputy President: Chris Juhlin (to be approved)
- Officer Publications: Michael Kühn (to be approved)
- Officer “above ground”: Viktor Bruckman
- Officer Outreach & Education: Maria Ask
- Economics & Integration: Kristen Mitchell
- Officer “subsurface”: Suzanne Hangx
- Officer ECS Representative: Luke Griffiths



S. Martens



C. Juhlin



M. Kühn



V. Bruckman



M. Ask



K. Mitchell



S. Hangx



L. Griffiths

## Division awards

### ■ 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 or Pico (OSPP) Award

- **Registration** is open in association with abstract submission.
- Division president collects **team to review the posters or PICOs**.
- Awardee receives a conference fee waiver for the next EGU GA and a publication free of charge in an EGU Journal.

## Outstanding Student Poster Presentation

The European Geosciences Union presents the award to



# Linwei Hu

for the presentation entitled

**Comparison of time-lapse pressure tomography and seismic tomography for characterizing a CO<sub>2</sub> plume in a deep saline formation**

presented at the EGU General Assembly, Vienna,  
17-22 April 2016.

## Outstanding Student PICO Presentation

The European Geosciences Union presents the award to



# Benedikt Ahrens

for the presentation entitled  
**Determining the frequency dependence of elastic  
properties of fractured rocks**

presented at the EGU General Assembly, Vienna,  
17-22 April 2016.



## Set up skeleton programme for 2018 now

- Keep our aim in mind: Energy, Resources & the Environment.
- Strengthen topics and/or try to cover emerging topics.
- Encourage interdisciplinarity.
- Rotate conveners and include young colleagues.
- Avoid duplications or overlap among sessions.
- Sessions < ~20-25 abstracts will be merged in ERE or across divisions.
- Aim is to have ~ 500 ERE abstracts submitted.



**European Geosciences Union  
General Assembly 2018**

Vienna | Austria | 8-13 April 2018

## Convener responsibilities

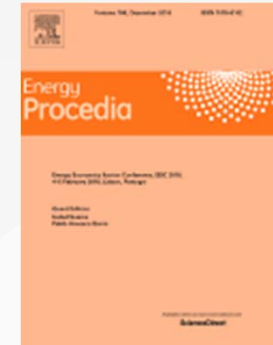
- **Define your session** by title, description, and organizers
- Consider a **PICO session**
- **Advertise your session** and actively attract abstracts
- Rate **financial support applications** as an input for the support selection committee
- **Schedule and run session**
  - Only one oral presentation allowed per person
  - Minimize the number of orals from your own organization
  - Encourage poster presentations
  - Observe deadlines and guidelines when setting up the program
  - Defines judges for the OSPP award
  - Attend the EGU GA
  - Ensure that time schedule is kept during oral presentations
- **Respond to requests** from programme chairman

## Division president elections 2017

Division presidents who start their first term now:

- They can be re-elected once. They can stand as candidate this autumn 2017. In case of re-election:
- The division president who is re-elected will appoint a deputy-president for the periods GA 2018 - GA 2019 and GA 2019 – GA 2020.
- Remember to regardless appoint a deputy president for the upcoming year from GA 2017 to GA 2018.
- Appointed deputy division presidents have to be approved by the division meeting.
- The next election is in 2019, the elected person will become the division deputy president at the GA 2020 and division president at the GA 2021.

## Publish in Energy Procedia



- Issues from 2013, 2014, 2015, 2016 are published.
- New issue from this GA (last one) to come.
- Any presentation from ERE division or in co-organized sessions is eligible for publications. Oral and poster “no-shows” will be excluded.
- Manuscripts will have 3-10 pages.
- Publication fee per manuscript are 100 EUR.
- Templates will be provided which you have to follow exactly. Send an e-mail to [egypro.ere.egu@gfz-potsdam.de](mailto:egypro.ere.egu@gfz-potsdam.de) if you would like to receive the template. Please add the PDF of your EGU abstract to your mail.
- Deadline for submission of your paper: 15 May 2017
- Publication is planned for September 2017.
- Review will be done by ERE board and conveners of 2017 meeting.



**EGU** European Geosciences Union  
Division on  
**Energy, Resources and the Environment**

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ERE

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## ERE Division Meeting Reports

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](#) (PDF, 2.6 MB) from the "ERE Division Meeting 2016"
- [Slides](#) (PDF, 3.0 MB) from the "ERE Division Meeting 2015"
- [Slides](#) (PDF, 11.9 MB) from the "ERE Division Meeting 2014"
- [Slides](#) (PDF, 2.4 MB) from the "ERE Division Meeting 2013"
- [Slides](#) (PDF, 235.6 KB) from the "ERE Division Business Meeting 2012"
- [Slides](#) (PDF, 771.7 KB) from the "ERE Division Business Meeting 2011"
- [Slides](#) (PDF, 214.7 KB) from the "ERE Division Business Meeting 2010"
- [Minutes](#) (PDF, 54.2 KB) from the "ERE Division Business Meeting 2009"

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

## Make use of the GA Survey

[www.egu2017.eu/feedback](http://www.egu2017.eu/feedback)

- GA 2016: 1,850 responses. These were examined carefully and played a large part in shaping improvements for the GA 2017.
- Distribution:
  - via email to participants and EGU members after GA
  - links on social media & blog
  - [egu2017.eu](http://egu2017.eu) website
- Survey live during GA and until mid June

