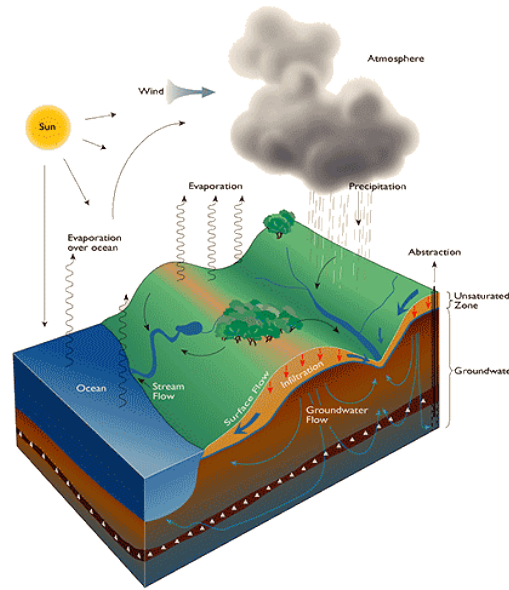




Energy, Resources & the Environment (ERE)



Division Meeting

Friday 2 May 12.15-13.15 hours – Room R13

Email: ere@egu.eu



What is the DM?



- **Division meetings** (DM) are organized **annually** during the General Assembly (GA).
- EGU Programme Committee (PC) takes care that the business meetings are **adequately advertised** in the GA programme.
- Division presidents and/or division representatives in the PC should advertise the business 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 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:



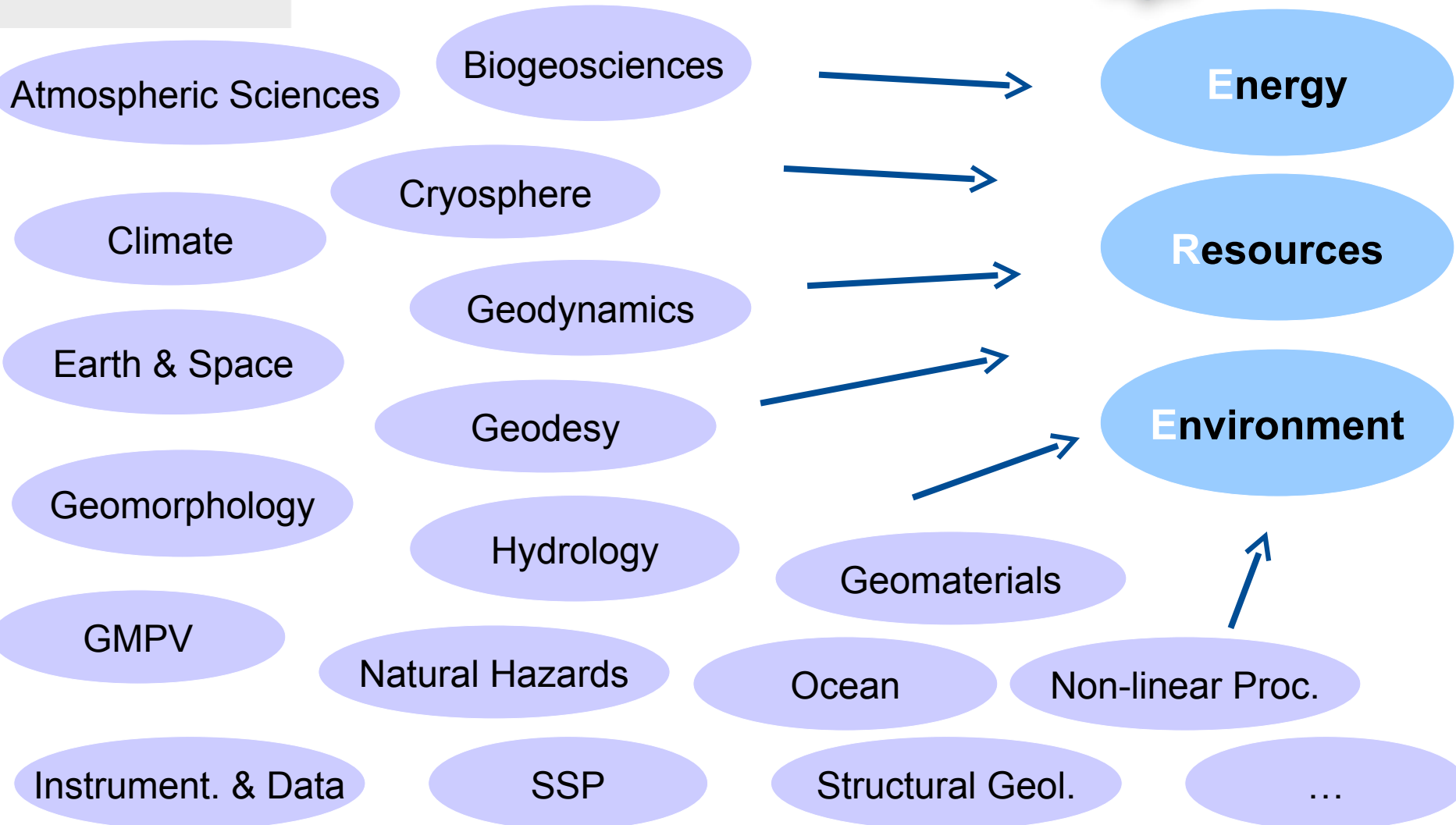
How is EGU run?



- **The eight Union-wide committees** reporting to Council:
 - Programme Committee (coordinates the General Assembly).
 - Outreach committee (Education, Outreach, News, and Sponsorship).
 - Publications Committee (coordinates the EGU journals).
 - Awards Committee (coordinates the EGU Medal Committees).
 - Finance Committee (oversees the EGU finances).
 - Nominations Committee (oversees nomination processes).
 - Education Committee (coordinates the EGU activities related to secondary and tertiary education).
 - Topical Events Committee (coordinates topical meetings, conference series, workshops and training schools).



Interdisciplinarity of ERE





Aim of the Division



- **EGU** brings together **geoscientists** covering all disciplines of the earth, planetary and space sciences (**interdisciplinarity**).
- We – **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.



Agenda



1. Welcome by the new Division President
2. Agenda for the Division Meeting
3. EGU Journals – Specifically ESD (Earth System Dynamics)
4. Report on the Activities of EGU since last year
5. Report on the Activities of ERE since last year
6. Scientific Programme of ERE - 2014 and next year
7. Division Officers
8. Candidate Awards
9. Any other business



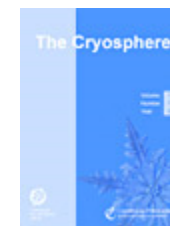
EGU Journals



- **Advantages of Open Access**

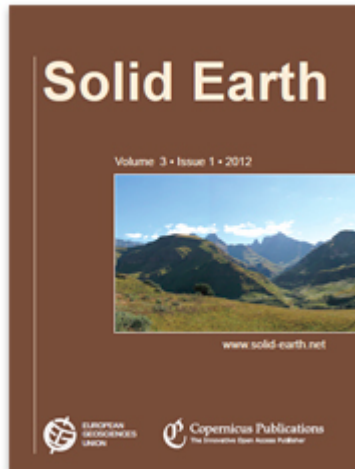
- Immediate free access to the online article.
- Increased citation through unlimited access.
- Author retains copyright.

- **EGU Journals are extremely successful with high impact!**





Solid Earth



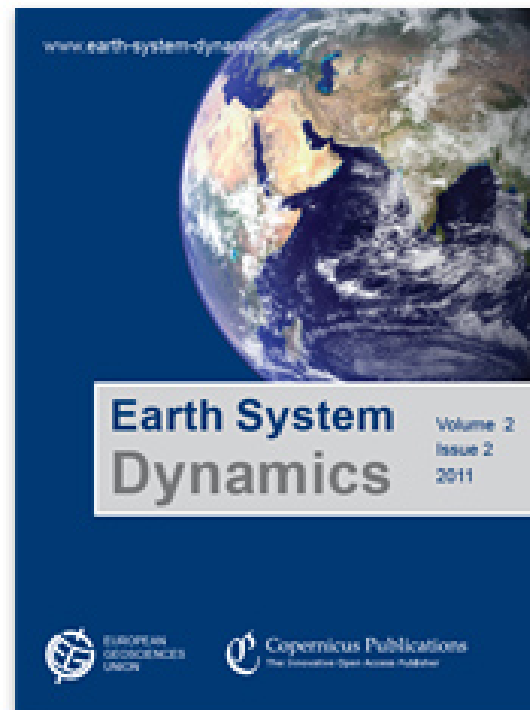
- Solid Earth (SE) is an international scientific journal dedicated to the publication and discussion of multidisciplinary research on the composition, structure and dynamics of the Earth from the surface to the deep interior at all spatial and temporal scales.
- No publication fee for 2014



Earth System Dynamics



- **Axel Kleidon – Chief Editor of ESD – would like to make you aware of the journal and as well receive input.**



Earth System Dynamics

- relatively new EGU journal, **ISI-listed** since 2013
- open review, open access model of Copernicus
- **interdisciplinary** journal: focus on Earth as a system
 - **Dynamics** of the Earth system: e.g., theory, climatology, atmosphere-ocean dynamics, land-atmosphere interactions
 - Earth system **change**: e.g., climate prediction, future climate change, impacts of climatic change, integrated assessment
 - **Management** of the Earth system: e.g., carbon sequestration, climate engineering, renewable energy
- no page charges in 2014
- chief editors: Axel Kleidon, Valerio Lucarini, Ning Zeng
- more information: www.earth-system-dynamics.net

Example Publications of 2013

Bathiany, S., Claussen, M., and Fraedrich, K.: **Detecting hotspots of atmosphere-vegetation interaction via slowing down - Part 1: A stochastic approach**, Earth Syst. Dynam., 4, 63-78, 2013.

Séférian, R., Bopp, L., Swingedouw, D., and Servonnat, J.: **Dynamical and biogeochemical control on the decadal variability of ocean carbon fluxes**, Earth Syst. Dynam., 4, 109-127, 2013.

Schaller, N., Cermak, J., Wild, M., and Knutti, R.: **The sensitivity of the modeled energy budget and hydrological cycle to CO₂ and solar forcing**, Earth Syst. Dynam., 4, 253-266, 2013.

Menon, A., Levermann, A., Schewe, J., Lehmann, J., and Frieler, K.: **Consistent increase in Indian monsoon rainfall and its variability across CMIP-5 models**, Earth Syst. Dynam., 4, 287-300, 2013.

P. Dass, C. Müller, V. Brovkin, and W. Cramer: **Can bioenergy cropping compensate high carbon emissions from large-scale deforestation of high latitudes?** Earth Syst. Dynam., 4, 409-424, 2013.

Current Special Issues

Social dynamics and planetary boundaries in Earth system modelling

Guest Editors: W. Lucht, J. Donges, A. Kleidon, S. Cornell, J. Dyke, and M. Sivapalan

Climate Change and Environmental Pressure: Adaptation and Resilience of Local Communities in the Hindu-Kush-Himalaya

Guest Editors: J. Scheffran, G. Gioli, and V. Lucarini

9th International Carbon Dioxide Conference (ICDC9) (ESD/ACP/BG/AMT Inter-Journal SI)

Guest Editors: L. Bopp, V. Brovkin, J. Canadell, C. Gerbig, D. Griffith, M. Heimann, R. Keeling, Y. Luo, A. C. Manning, A. Michalak, Z. Xie, and N. Zeng

Intersectoral Impact Model Intercomparison Project (ISI-MIP)

Guest Editors: W. Lucht, M. Floerke, R. Pavlick, and D. Lapola

More Information?

Contact the chief editors regarding questions about submissions, special issues, involvement and other issues:

- Axel Kleidon (akleidon@bgc-jena.mpg.de)
- Valerio Lucarini (valerio.lucarini@zmaw.de)
- Ning Zeng (zeng@atmos.umd.edu)



Activities of EGU



- **EGU Executive Secretary and Office**

- Executive Secretary - Philippe Courtial.
- EGU Office - Luisenstr. 37, 80333 Munich, Germany.



- **Future General Assemblies**

- 12 April –17 April 2015 – Vienna.
- EGU agreement next 4 years.

- **New By-laws**

- **Conference theme**

- 2014: Face of the Earth
- 2015: A Voyage into Scales





EGU General Assembly 2014 Facts

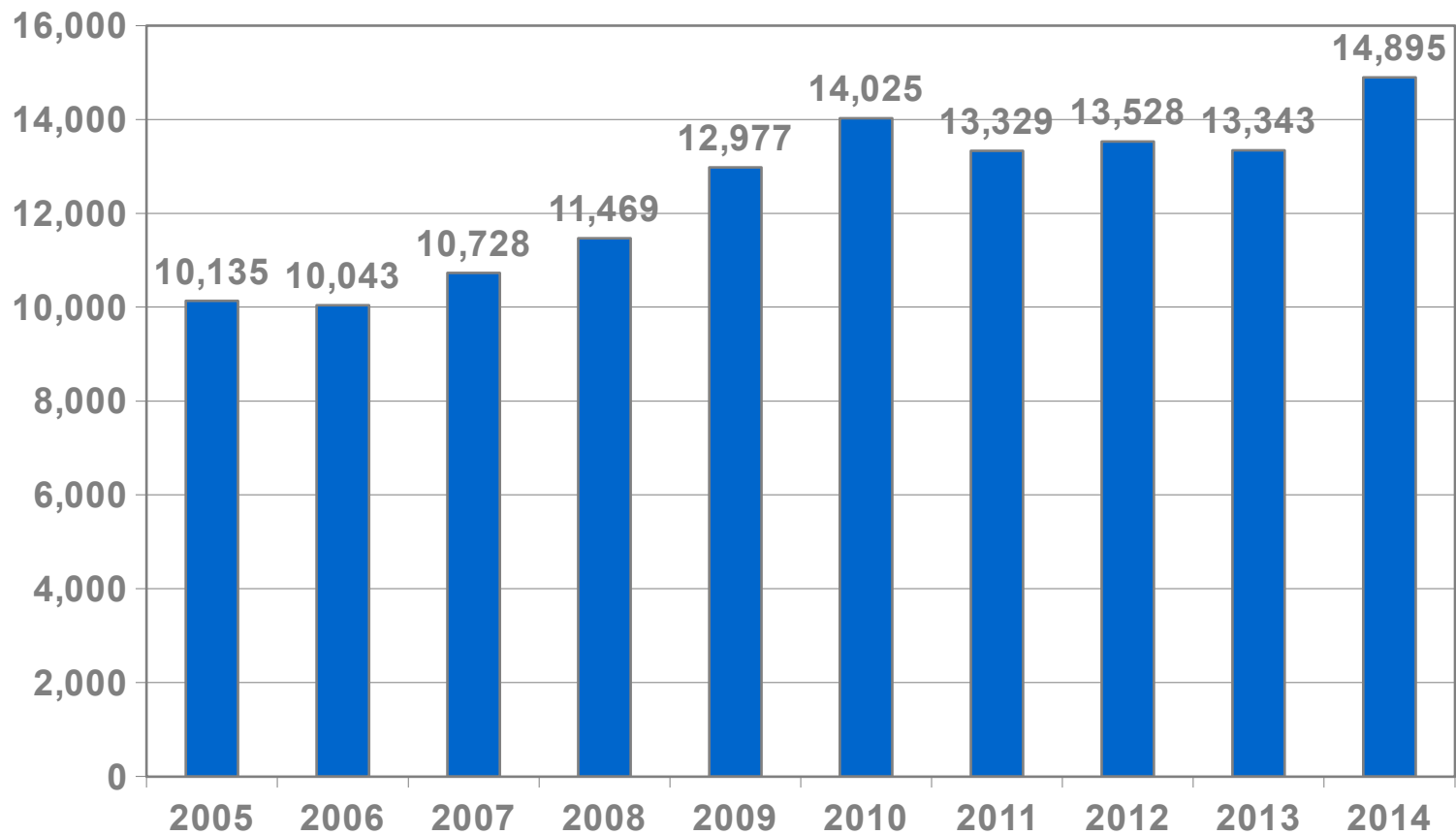
As of 26 April, the Assembly 2014 provides:

- 14,895 Papers in Programme | +11.6% (2013)
- 4,829 Orals | 9,583 Posters | 483 PICOs | Ratio 32 / 64 / 3
- 568 unique scientific Sessions | 126 PSD Sessions | 245 Side Events*
- 10,261 Registrations in Advance (10,176 already paid) | +3.9% (2013)

*Side Events include: GDB, EG, EOS, ML, KL, TM, SC, SPM, DM, EBM, UM

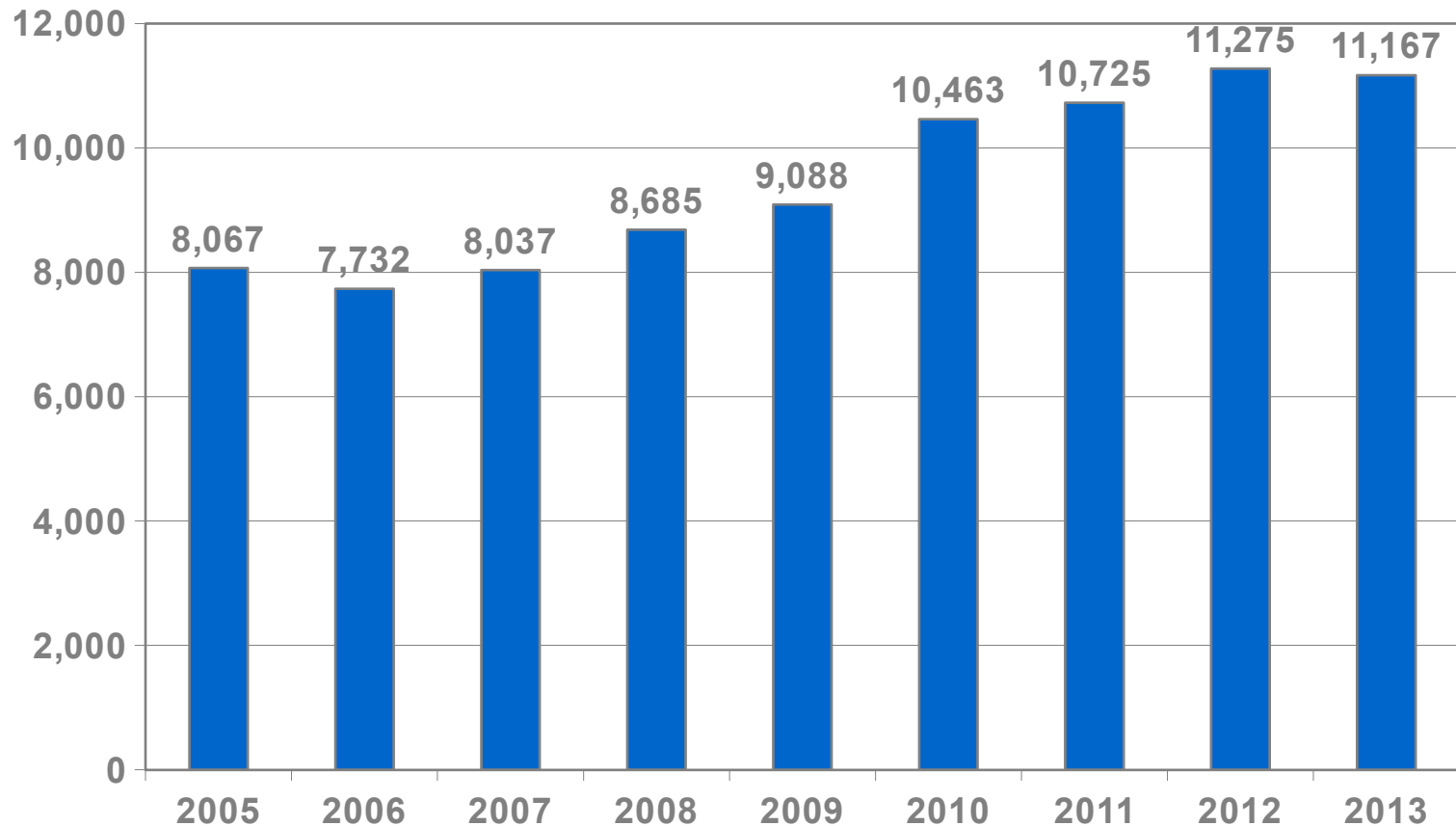


Papers in Programme 2005–2014





Participants at EGU Assemblies 2005–2013



2014 > 12,500?



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 www.egu2014.eu/egu_today

Blogs

- GeoLog & the EGU Blog Network will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at geolog.egu.eu and blogs.egu.eu

Social Media

- Sessions will be advertised on Twitter ([@EuroGeosciences](https://twitter.com/EuroGeosciences)) and Facebook (**European Geosciences Union**)
- Participants can ask questions & keep updated by following **#EGU2014**



Meetings, Medals & Young Scientists



Meetings Calendar

- A hub of information on conferences and workshops in the geosciences. Add your meeting at www.egu.eu/meetings/calendar/form

Co-Sponsoring Programme

- There are two opportunities to get your meeting sponsored: 15 Jun – Jul 2014 & Dec 2014 – 15 Jan 2015: www.egu.eu/meetings/suport-request

Awards & Medals

- Nominations are open until 15 June www.egu.eu/awards-medals

Young Scientists

- Young scientists (YS) can find out how to get involved in the Union & benefit from our YS resources at www.egu.eu/young-scientists

Jobs

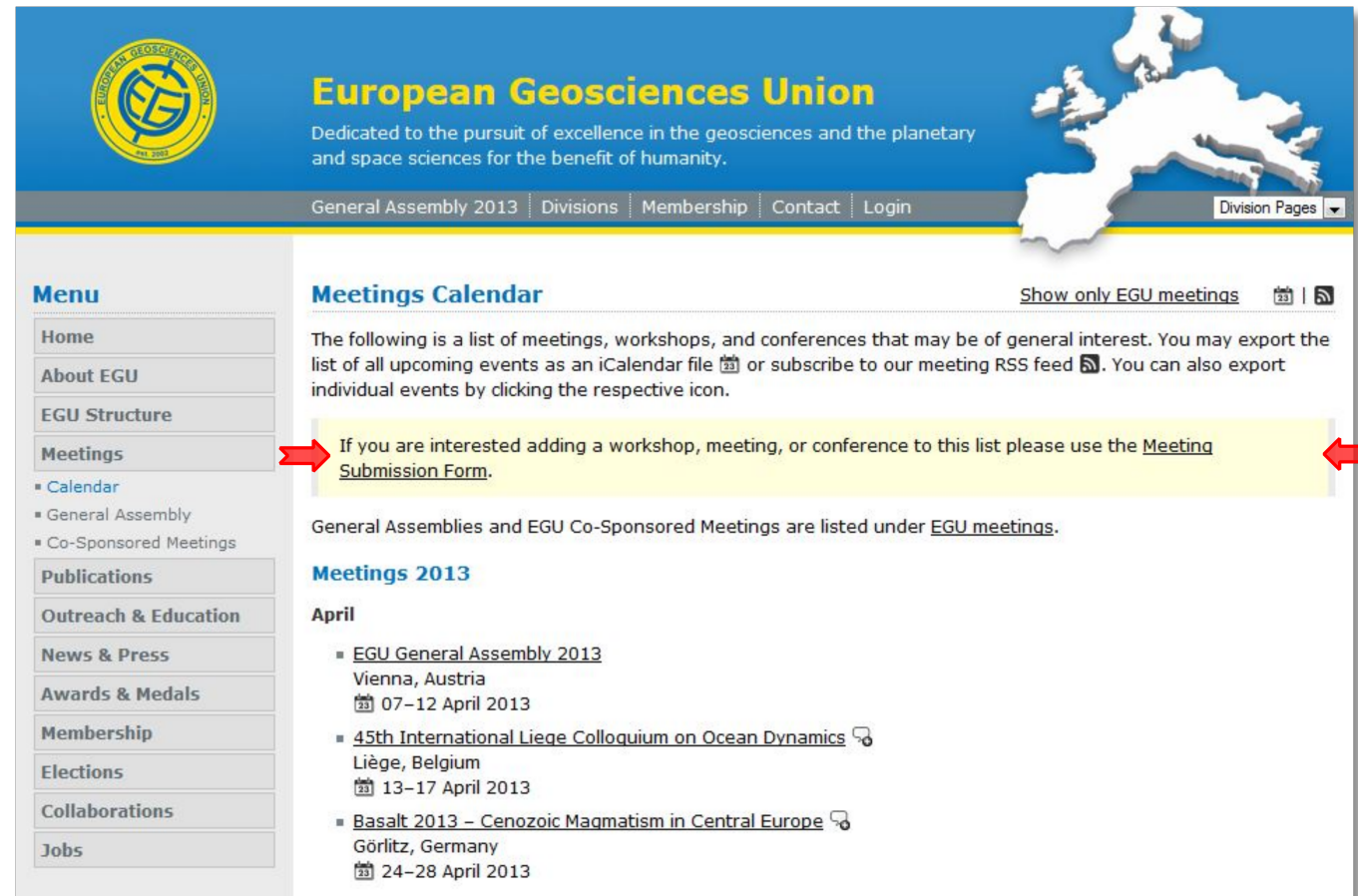
- We advertise geoscientific jobs for free at www.egu.eu/jobs add yours, or look for a new position



www.egu.eu/meetings/calendar/



Why not advertising a meeting you are organising in the EGU meetings calendar?



The screenshot shows the EGU Meetings Calendar website. The header includes the EGU logo, the text "European Geosciences Union", and the tagline "Dedicated to the pursuit of excellence in the geosciences and the planetary and space sciences for the benefit of humanity." Navigation links include "General Assembly 2013", "Divisions", "Membership", "Contact", and "Login". A "Division Pages" dropdown menu is visible on the right.

The main content area is titled "Meetings Calendar" and includes a "Show only EGU meetings" filter and social media icons. The text reads: "The following is a list of meetings, workshops, and conferences that may be of general interest. You may export the list of all upcoming events as an iCalendar file [iCalendar icon] or subscribe to our meeting RSS feed [RSS icon]. You can also export individual events by clicking the respective icon."

A yellow highlighted box contains the text: "If you are interested adding a workshop, meeting, or conference to this list please use the [Meeting Submission Form](#)." Red arrows point to this box from both sides.

Below this, it states: "General Assemblies and EGU Co-Sponsored Meetings are listed under [EGU meetings](#)."

The "Meetings 2013" section lists events for April:

- EGU General Assembly 2013
Vienna, Austria
[iCalendar icon] 07–12 April 2013
- 45th International Liege Colloquium on Ocean Dynamics [RSS icon]
Liège, Belgium
[iCalendar icon] 13–17 April 2013
- Basalt 2013 – Cenozoic Magmatism in Central Europe [RSS icon]
Görlitz, Germany
[iCalendar icon] 24–28 April 2013



National Societies Section



National Geoscientific Societies Section in EGU Website

- ✓ Society members responsible to upload the **content** through on-line form.
- ✓ **Review** of the content by the EGU Office.

The screenshot shows the website for the National Geoscientific Societies section of the European Geosciences Union. The header features the EGU logo and the text "European Geosciences Union National Geoscientific Societies". A navigation bar includes links for "General Assembly 2013", "Divisions", "Membership", "Contact", "Login", and "Division Pages". A "Menu" sidebar lists "Home", "Meetings", "Field Trips", and "Teaching Resources", with a "Back to EGU Website" button below. The "Find us on" section contains social media icons for Twitter, Facebook, Google+, LinkedIn, and YouTube. The "Links" section includes logos for GEO, GEOLOG, EGU TV, and ima g g e o. The main content area is titled "National Geoscientific Societies" and contains a yellow box with the text: "If you are interested adding a national geoscientific society to this list please use the [GeoSociety Submission Form](#)." Below this, a list item shows "Albanian Geophysical Test Society". The footer contains the same navigation links as the header and a "Top" link.



MoU with other societies



2014 Memorandums of Understanding

- ✓ Geological Society of America (GSA): geosociety.org
- ✓ International Union of Forest Research Organizations (IUFRO): iufro.org

The screenshot shows the website of the European Geosciences Union (EGU) with the following elements:

- Header:** EGU logo, "European Geosciences Union National Geoscientific Societies", and a navigation menu (General Assembly 2013, Divisions, Membership, Contact, Login, Division Pages).
- Menu:** Home, Meetings, Field Trips, Teaching Resources, and a "Back to EGU Website" button.
- Find us on:** Social media icons for Twitter, Facebook, Google+, LinkedIn, and YouTube.
- Links:** Logos for GEO, GEOLOG, EGU TV, and ima g geo.
- Main Content:** A section titled "National Geoscientific Societies" with a yellow box containing the text: "If you are interested adding a national geoscientific society to this list please use the [GeoSociety Submission Form](#)." Below this, a list item reads: "▪ [Albanian Geophysical Test Society](#)".
- Footer:** Navigation menu (General Assembly 2013, Divisions, Membership, Contact, Imprint) and a "Top" link.



Menu

- Home
- About EGU
- EGU Structure
- Meetings
- Publications
- Outreach & Education
- News & Press
- Awards & Medals
- Membership
- Elections
- Collaborations
- Jobs

Find us on



Jobs



The EGU offers a platform for job seekers to find vacancies in the Earth, planetary and space sciences. Available research positions are displayed below.

Employers can post a vacancy by filling the [Jobs Submission Form](#).

Sort by

30 Total Result(s)

1. One post-doc and one PhD position Earth Surface Dynamics

University of Geneva, Geneva, Switzerland

Application Deadline: Open until the position is filled

The Department of Earth Sciences at the University of Geneva invites applications for two Swiss National Science Foundation fellowships in the field of earth surface dynamics where laboratory and numerical experiments will be performed to understand landscape response to extreme deformation and extreme climate change. Drainage net ...

[[Read more](#)]

2. ESR-PhD, fracture physics/geophysics, Marie Curie ITN FLOWTRANS, CNRS/Strasbourg

CNRS, Institut de Physique du Globe de Strasbourg, Strasbourg, France

Application Deadline: Open until the position is filled



Activities of ERE



- **Press Conferences 2012**
 - Reducing greenhouse gas emissions:
Renewable energy & CO₂ storage (contribution from ERE1.1)
 - How critical are strategic mineral resources?
(contribution from GMPV1.4/ERE3.5)
- **Press Conferences 2013**
 - Can we undo climate warming? (contribution from ERE1.1)
- **GIFT Workshop 2015**
 - Mineral resources
- **ERE Blog 2014**
 - Viktor Bruckman, Suzanne Hangx, Sian Loveless



Activities of ERE



- **Scientific Program 2010**

- 208 contributions (with ERE in lead) in 14 sessions - 1.4 % of EGU
- 178 contributions in 2009 – increase of 17 %

- **Scientific Program 2011**

- 395 contributions (with ERE in lead) in 13 sessions – 3 % of EGU
- increase from 2010 of ca. 100 %

- **Scientific Program 2012**

- 418 contributions (with ERE in lead) in 14 sessions – 3 % of EGU
- 74 contributions (add. ERE not in lead) in 3 sessions

- **Scientific Program 2013**

- 398 contributions (with ERE in lead) in 16 sessions – 3% of EGU
- 90 contributions (add. ERE not in the lead) in 4 sessions

- **Scientific Program 2014**

- 377 contributions (with ERE in lead) in 19 sessions – 2.5 % of EGU
- c. 220 contributions (add. ERE not in lead) in 6 sessions



Scientific Program 2014



- **ERE1 - Energy**

- ERE1.1 - Energy, Resources & the Environment
- ERE1.4 - Energy Meteorology
- ERE1.5 - Exploration, ... and production of geothermal resources
- ERE1.6 - Numerical modeling in geothermics
- ERE1.7 - Geothermal energy from deep sedimentary basins ..
- ERE1.8 - Sustainable biomass for raw materials and energy
- ERE1.10 - Planetary boundaries, societal interactions, and sustainability ...
- ERE1.11 - Recent advances in petroleum exploration and production
- ERE1.14 - Unconventional hydrocarbon resources: Advances and new technologies

- **ERE2 – Carbon Capture and Storage (CCS)**

- ERE2.2 - Long term storage of CO₂ and the petrophysics of unconventional hydrocarbons: Results from laboratory studies
- ERE2.3 - Field methods and analysis ... for CO₂ geological storage
- ERE2.5 - Modelling underground environmental processes resulting from energy-related subsurface utilization



Scientific Program 2014



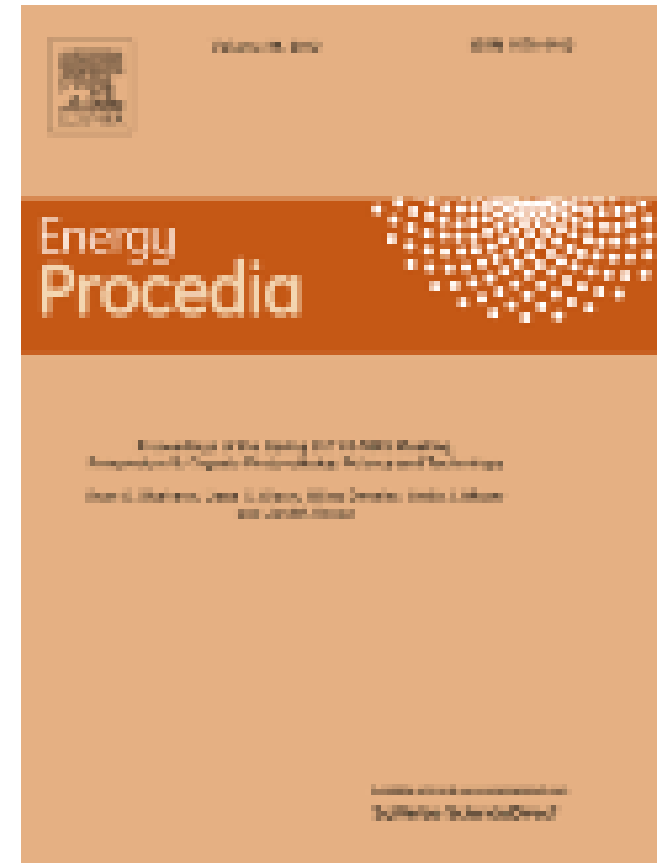
- **ERE3 – Hydrothermal and Mineral Systems – Materials and Elements**
 - ERE3.1 - Structural interpretation and evolution of mineral systems
 - ERE3.3 - Challenges to supply and quality of geomaterials used in construction
 - ERE3.4 - Natural stone research and Heritage stone designation
- **ERE5 – Others**
 - ERE5.1 - Measurement of Greenhouse Gases at the Urban Scale



Energy Procedia



- Issue from 2013 published.
- New issue Fall 2014 from this GA.
- Any presentation from division.
- Deadline 30 June 2014.
- Extended abstract (3-10 pages).
- c. € 60 publication fee.
- Template to be used.
- Review done by ERE board and conveners of this year's meeting.
- Authors should have received information via mail.





Scientific Program 2015



- **Setting up skeleton programme now**

- Keep our aim in mind: Energy, Resources & the Environment.
- Strengthen topics and rotate conveners.
- No duplication / overlap among sessions.
- Try to cover emerging topics.
- Encourage interdisciplinarity.
- Sessions < 20 contributions: Will be merged in ERE or across divisions
- Aim is to have a bit over 400 abstracts submitted
- Consider a Pico

Program 2014 – Give your feed back



Current Division Officers



- **Current:**

- President/PG Chair: Chris Juhlin (elected 2013-2015)
- Vice President: Michael Kühn
- **Officer "subsurface": Tim Tambach**
- Officer "above ground": Viktor Bruckman
- Officer Outreach & Education: Maria Ask
- Economics & Integration: Hermann Held



Chris Juhlin



Michael Kühn



Tim Tambach



Viktor Bruckman



Maria Ask



Hermann Held



Updates Division Officers



- **Current:**

- President/PG Chair: Chris Juhlin (elected 2013-2015)
- Deputy President: Michael Kühn
- Officer “above ground”: Viktor Bruckman
- Officer Outreach & Education: Maria Ask
- Economics & Integration: Hermann Held



C. Juhlin

- **New:**

- Officer “subsurface”: Suzanne Hangx
- Officer Young Scientist Representative”: Sian Loveless



M. Kühn



S. Hangx



V. Bruckman



M. Ask



H. Held

S. Loveless



Candidate Awards



- **Division Outstanding Young Scientist Award:**
 - **Definition** of a young scientist: Nominee should have received PhD within last seven years and be of age 35 or younger on January 1 of the year when award is given.
 - **Nominations** for outstanding young scientist award are sought by an open call, including discussion at the division business meetings.
 - **Proposals submitted** to Division president by 15th June.
- **Division Outstanding Student Poster Presentation (OSP):**
 - **Registration** is open in association with abstract submission.
 - Division president collects **team to review** the posters.
 - **This year c. 50 applications (last year 16).**
 - Picture, poster **published** on **EGU homepage / newsletter.**
 - Receives conference **fee waiver** for the **next EGU GA.**
 - **Publication** free of charge in EGU Journal (normal peer review).



Outstanding Student Poster Presentation 2013



- **Outstanding Student Poster Presentation (OSP):**
 - The European Geosciences Union (EGU) presents the award to ...

Lynsey J. Spaeth

- ... for her outstanding poster paper entitled ...
- **Seal assessment and estimated storage capacities of a targeted CO₂ reservoir based on new displacement pressures in SW Wyoming, U.S.A.**
- Presented at the EGU General Assembly 7-12 April 2013, Vienna.



ERE Division Outstanding Young Scientist 2014



- **ERE Outstanding Young Scientist:**

- The European Geosciences Union (EGU) presents the award to ...

Tabea K. Lissner

- ... for her outstanding research ...
- **with her contribution to important advancements in the work needed to tackle the challenges associated with the provision of energy and other social resources.**



Feedback / AOB



- **Your say: ...**

Take part in the feedback survey



**European Geosciences Union
General Assembly 2014
Feedback Survey**



- **... under egu2014.eu/feedback**