



HIGHLIGHTS AT A GLANCE

- 08:30 – Geodiversity and geoheritage (GM1.6/EOS19: Room 0.96); Subduction interface properties and large subduction earthquakes (TS9.2/GD5.7/GMPV8.4/SM1.09: Room D1); ENSO: dynamics, predictability and modelling (NP2.1/AS1.25/CL2.10/OS1.13: Room L2)
- 09:00 – Past achievements and future challenges for the geosciences (US1: Room E1)
- 13:30 – Low-risk geo-engineering: are techniques available now? (GDB4: Room E1); The global phosphorus cycle (BG1.6: Room 2.31); High resolution topography in the geosciences (IE3.3: Room N2)
- 15:30 – The quest for Oldest Ice (CR1.8/CL1.16: PICO Spot 3)
- 19:00 – Should early career scientists use time developing transferrable skills? (GDB3: Room E1)
- All day – Medal lectures (various rooms: see right); Short courses & ECS events (various rooms: see right); Meet EGU (EGU Booth); Division meetings (various rooms: see overleaf)

EGU Today helps you keep up with the many activities at the General Assembly by highlighting sessions and events from the programme. If you have comments, email the editor Bárbara Ferreira at media@egu.eu. The newsletter is also available at egu2018.eu/egu_today.html and on the EGU2018 app.



Part of the German Neumayer III Antarctic station (J.-M. Nasse)

Past achievements and future challenges for the geosciences

This session, co-organised with AGU, looks back at past achievements in the geosciences, how they have shaped the modern world and civilisation and considers the opportunities and challenges that the discipline will face in the future. What are the transformative projects, ideas and technologies that are emerging and what are the funding opportunities within Europe that might support these ideas? This session explores these topics with key thinkers and leaders: Katrien Maes, John Ludden, Jean-Pierre Bourguignon, Barbara Romanowicz, Susan Trumbore, and Mike Freilich.

US1: 09:00–12:00 / Room E1

Should early career scientists use time developing transferrable skills?

Continuing with the success of last year's Early Career Scientist (ECS) Great Debate, this session aims to give a more prominent voice to more EGU ECS members on important research-related issues. Attendees are invited to debate this year's topic in a series of round-table discussions. Places are limited, and will operate on a first-come, first-served basis.

GDB3: 19:00–20:30 / Room E1

Today's medal lectures

- Runcorn-Florenksy Medal Lecture by Yves Langevin (ML28/PS: 10:30–11:30 / Room 1.61)
- Christiaan Huygens Medal Lecture by Jothiram Vivekanandan (ML10/GI: 11:00–12:00 / Room M2)
- Hannes Alfvén Medal Lecture by Eckart Marsch (ML13/ST: 11:00–12:00 / Room L3)
- Arthur Holmes Medal Lecture by A. M. Celâl Şengör (ML3/GD/TS: 12:15–13:15 / Room E1)
- Vladimir Ivanovich Vernadsky Medal Lecture by Antje Boetius (ML33/BG: 14:00–15:00 / Room C)
- Milutin Milankovic Medal Lecture by David A. Hodell (ML22/CL: 16:00–17:00 / Room F2)
- Stephan Mueller Medal Lecture by John P. Platt (ML30/TS: 16:00–17:00 / Room D1)
- G Division Outstanding ECS Lecture by Sara Bruni (ML38/G: 16:45–17:00 / Room G1)
- Ian McHarg Medal Lecture by Kerstin A. Lehner (ML16/ESSI: 18:30–20:00 / Room L2)
- John Dalton Medal Lecture by Gabriel G. Katul (ML18/HS: 19:00–20:00 / Room B)
- Petrus Peregrinus Medal Lecture by Mioara Manda (ML23/EMRP: 19:00–20:00 / Room K1)
- Philippe Duchaufour Medal Lecture by Yakov Pachepsky (ML24/SSS: 19:00–20:00 / Room K2)

Short courses & ECS events

- Once upon a time in Vienna (SC2.3: 08:30–10:00 / Room -2.16)
- **Rhyme your research – by Sam Illingworth, the EGU's Poet in Residence (SC2.4: 10:30–12:00 / Room -2.16)**
- Unconscious bias (SC3.11: 10:30–12:00 / Room -2.91)
- Polar science career panel (EGU Cryosphere and APECS; SC3.4, 12:15–13:15 / Room -2.85)
- How to convene a session at EGU's General Assembly (SC3.1: 13:30–15:00 / Room -2.85)
- Communicating geoscience to the media (SC2.15: 15:30–17:00 / Room -2.31)
- **How to cartoon science – by Matthew Partridge, the EGU's Cartoonist in Residence (SC2.5: 19:00–20:00 / Room -2.31)**



Poet Sam Illingworth (@SamIllingworth on Twitter) and cartoonist Matthew Partridge (@ErrantScience), two geoscientists, will be communicating the science discussed at the EGU General Assembly in fun and effective ways. Talk to them!

Meet EGU

EGU Booth, Hall X2



- CP Editor (Marie-France Loutre), 09:15–10:00 / 14:15–15:00
- NPG Editor (Ana M. Mancho), 09:15–10:00
- GM President (Peter van der Beek), 10:00–11:15
- EMRP President (Angelo De Santis), 11:15–12:00
- NHESS Editor (Heidi Kreibich), 11:15–12:00
- SM President (Martin Mai), 11:15–12:45
- TC Editor (Christian Hauck), 13:30–14:15
- ANGeo Editor (Christoph Jacobi), 14:15–15:00
- GI President (Francesco Soldovieri), 14:15–15:00
- SSS President (Saskia Keesstra), 15:00–15:30
- EGU Treasurer (Patric Jacobs), 16:15–17:00
- GMD Editor of Geoscientific Model Development (Julia Hargreaves), 16:15–17:00
- NPG Editor (Daniel Schertzer), 16:15–17:00

Division meetings

From 12:15 to 13:15, you can find out the latest about your EGU division and give your feedback. Today's meetings are:

- Climate: Past, Present & Future (CL) / Room F2
- Geodesy (G) / Room G1
- Geosciences Instrumentation and Data Systems (GI) / Room M2
- Natural Hazards (NH) / Room L6
- Planetary and Solar System Sciences (PS) / Room L3
- Soil System Sciences (SSS) / Room K2

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Great Debate – Low-risk geo-engineering: are techniques available now?

According to the Intergovernmental Panel on Climate Change, the 2 degrees global-warming target would require not only reducing all human-made greenhouse gas emissions to zero but also removal of large amounts of carbon dioxide from the atmosphere, or other type of geo-engineering techniques. The issue of geo-engineering has been heavily debated during the last few years and we are therefore asking: Are the potential risks with geo-engineering sufficiently known? Are safe geo-engineering techniques available? Are they available now? Find out today.

GDB4: 13:30–15:00 / Room E1

Geodiversity and geoheritage

This session is a hub for international exchange on protected areas in the geosciences. It brings together experts from the geosciences and international policy, as well as protected area specialists.

**GM1.6/EOS19: Orals / 08:30–12:00 / Room 0.96,
Posters / Attendance: 17:30–19:00 / Hall X2**



Topographic control on hydrological processes (Credit: Ryan Teuling, via imaggeo.egu.eu)

The global phosphorus cycle

This interdisciplinary session features contributions to the study of phosphorus from across the geosciences, and aims to foster links between researchers working on different aspects of the phosphorus cycle.

**BG1.6:
Orals / 13:30–15:00 / Room 2.31,
Posters / Attendance 17:30–19:00 / Hall A**

High resolution topography in the geosciences

This session will evaluate the capability of new techniques to model topography and study patterns of topographic changes at multiple temporal and spatial scales. Antonio Abellan from the University of Cambridge is an invited speaker.

**IE3.3/GM2.2/CR2.5/GI3.13/GMPV10.4/HS6.9/NH6.10/
SSS13.21: 13:30–17:00 / Room N2
Posters / Attendance 17:30–19:00 / Hall X2**

Subduction interface properties and large subduction earthquakes

Since 2004, a number of large subduction earthquakes with unexpected rupture characteristics resulted in the generation of catastrophic tsunamis. These events have highlighted the need to broaden our knowledge on the physical processes that govern subduction seismogenesis by identifying and incorporating new physical constraints that arise from geophysical observations, laboratory experiments, numerical/analogue modelling of large subduction earthquakes, and fluid-rock interactions. These topics will be discussed in this session.

**TS9.2/GD5.7/GMPV8.4/SM1.09: Orals / 08:30–12:00 / Room D1,
Posters / Attendance 17:30–19:00 / Hall X2**

The quest for Oldest Ice

This session brings together glaciologists, ice-core scientists, geophysicists, climatologists and experts from other fields to exchange on the state of international efforts in science, technology and site selections for drilling an ice core up to 1.5 million years old in Antarctica.

**CR1.8/CL1.16: PICO
/ 15:30–17:00 / PICO spot 3**

ENSO: dynamics, predictability and modelling

The El Niño–Southern Oscillation (ENSO) is the dominant source of interannual climate variability in the tropics and throughout the globe. This session features contributions on the dynamics of ENSO, how it can be predicted, and how it changes in climate projections, among others.

**NP2.1/AS1.25/CL2.10/OS1.13: Orals / 08:30–12:00 /
Room L2, Posters / Attendance 17:30–19:00 / Hall X4**

What's on tomorrow

- Fifty years of International Ocean Drilling (US4: 08:30–12:00 / Room E1)
- EGU Award Ceremony (PCN3: 17:30–20:00 / Room E1)
- 14 medal lectures, a geoscience games night, many interdisciplinary events, and more!