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 or questions, email Bárbara Ferreira at media@egu.eu. The newsletter is also available online at egu2016.eu/egu_today.html.

**EGU 2016: Active Planet**

**Tuesday, 19 April 2016**

**Active Planet Lectures**

Today’s programme features two lectures celebrating this year’s theme:

- The Active Outer Shell of Earth, by Antje Boetius (Alfred Wegener Institute, Max Planck Institute for Marine Microbiology & U. Bremen, Germany) – This lecture will focus on what remains to be explored in carbon and life interactions (TL4: 13:30–15:00 / Room 0.93)
- The Active Solid Earth, by Cynthia Ebinger (University of Rochester, US) – This lecture will focus mainly on the earthquake-volcano deformation cycles that occur over human time scales. (TL2: 15:30–17:00 / Room 0.93)

**Geosciences in the Anthropocene**

This Union Session will bring together geoscientists, historians, social scientists and journalists to explore and debate not only the geological questions, but also the political, cultural and economic implications of living in the Anthropocene and what it means for the future.  

**US5: 13:30–17:00 / Room L6**

**Plan it Earth: is there enough resource for all? Is it just a matter of planning for the future?**

Discussion of natural resource depletion has been widespread for decades, yet there still seems to be little consensus on what to do about it. Some argue that we should all consume less. Others believe the only limit to resources is our imagination. How do we as the geoscientists engage with these highly differing positions? These and other issues will be discussed in today’s Great Debate.

**GBD3: 13:30–15:00 / Room E1**

**Short courses & early career scientist events**

- Meet the EGU ECS Representatives (EGU6: 09:15–10:30 / Room EGU Booth)
- Finding funding: how to apply for a research grant (SC46: 12:15–13:15 / Room -2.61)
- Meet the experts: the future of solar-terrestrial research (SC61: 13:30–15:00 / Room -2.85)
- The communicating geoscientist (SC44: 15:30–17:00 / Room -2.85)
- Supervising and tutoring students (SC11/GM13.2: 17:30–19:00 / Room -2.85)
- Complex systems methods for data analysis and modeling in geosciences (SC7/NP9.2: 17:30–20:00 / Room -2.16)
- ERC funding opportunities (TM2: 19:00–20:00 / Room -2.85)
- EGU Medallists and ECS Reception (FAN4: 19:00–20:30 / Room F2)

**Today’s medal lectures**

- Arne Richter Award for Outstanding Young Scientists Lecture by Christian Moestl (ML7: 09:45–10:15 / Room E1)
- Plinius Medal Lecture by Benjamin Horton (ML27: 10:30–11:30 / Room L3)
- Christiaan Huygens Medal Lecture by Karl U. Schreiber (ML11: 11:00–12:00 / Room -2.31)
- Jean Baptiste Lamarck Medal Lecture by Lucas Lourens (ML18: 11:00–12:00 / Room L6)
- Stephan Mueller Medal Lecture by Renée Heilbronner (ML31: 11:00–12:00 / Room B)
- Vilhelm Bjerknes Medal Lecture by Maria Kanakidou (ML33: 11:00–12:00 / Room F1)
- Arthur Holmes Medal by Trond H. Torsvik (ML3: 12:15–13:15 / Room F1)
- Hans Oeschger Medal by Paul A. Mayewski (ML15: 19:00–20:00 / Room E2)
- Henry Darcy Medal Lecture by Yoram Rubin (ML26: 19:00–20:00 / Room G1)
- Louis Néel Medal Lecture by Philip Meredith (ML23: 19:00–20:00 / Room E1)
- Philippe Duchauffour Medal Lecture by Heike Knicker (ML26: 19:00–20:00 / Room G1)

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**GeoCinema Highlights**

**Room GeoCinema (0.90)**

Dziiani, Jurassic lake (Active Planet) / Thinking like a bird – portrayal of Dutch migrations, 14:00–15:00

Lake Superior and the Midcontinent Rift: the billion year story / VolcaAray mapping the inside of a volcano, 15:30–16:00

**Meet EGU at the EGU Booth**

- Editor-in-Chief of Annales Geophysicae (Christoph Jacobi), 09:15–10:30
- Early Career Scientists (ECS) Representatives (Laura Roberts, Lena Noack, Wouter Berghuijs), 09:15–10:30
- Division President of Earth Magnetism & Rock Physics (Angel De Santis), 10:30–11:15
- Division President of Seismology (P. Martin Mai), 11:15–12:00
- Division President of Planetary & Solar System Sciences / Incoming Award Committee Chair (Ozgur Karatekin), 13:30–14:15
- Deputy President of Seismology (Charlotte Krawczyk), 13:30–15:00
- Topical Events Committee Chair (Fabrizio Storti), 13:30–15:00
- Division President of Soil System Sciences (Saskia Keesstra), 14:15–15:00
- Division President of Climate: Past, Present, Future / Galeo Conferences Coordinator (Thomas Blunier), 15:00–15:30
- Division President of Geodynamics (Irina Artemieva), 16:15–17:00

**Coevolution of soils, landforms and vegetation: patterns, feedbacks and ecosystem stability thresholds**

A session featuring studies addressing the organisation of vegetation and coevolving soils and landforms, including contributions on the soil erosion-vegetation relationships that rule the formation of landscape-level spatial patterns. Some presentations will focus on describing the implications of these spatial patterns of soils and vegetation for the resilience and stability of ecosystems under the pressure of climate change and/or human disturbances. Erkan Istanbulluoglu (U. Washington) is an invited speaker.

**Earthquakes: from slow to fast, from the field to the lab**

An interdisciplinary session at the frontiers between rock mechanics, seismology, volcanology, tectonics and mineralogy.

**NEW: Lecture on outcome of Paris climate talks**

In this talk, just added to the EGU 2016 programme, Kevin Anderson (U. Manchester) will revisit the scale of the climate challenge, arguing that whilst the science of climate change has progressed, we obstinately refuse to acknowledge the rate at which our emissions from energy need to be reduced.

**Ten years of Lusi eruption**

The spectacular Lusi eruption started in northeast Java, Indonesia, on May 29 2006, and it has been erupting mud, water, gas and clasts ever since. It has provided the unprecedented opportunity to study a piercement structure from its birth. This session will focus on lessons learned about modern and ancient piercement systems.

**Precipitation uncertainty and variability: observations, ensemble simulation and downscaling**

This session gathers contributions on research, application advances, and future needs in the understanding and modelling of precipitation variability, and its sources of uncertainty. Confirmed invited speakers include the AGU Hydrology Section President Efi Foufoula-Georgiou (U. Minnesota), and Simone Fatichi (ETH Zurich).

**Beyond the case study: concepts in Earth sciences**

This session features contributions from various fields of Earth surface research. It includes presentations on new techniques, methodological advances, (re-)evaluations of established paradigms, and more. Jane Willenbring (U. Pennsylvania) is an invited speaker.

**What’s on tomorrow**

- Is global economic growth compatible with a habitable climate? (GD84: 08:30–10:00 / Room K1)
- Chasing a comet with the ESA Rosetta mission (TL1/EOS0: 10:30–12:00 / Room B)
- EGU Award Ceremony (US0: 17:30–19:00 / Room E1)