

GeoBerlin 2015 4-7 Oct 2015 | Annual Meeting DGG • GV • DMG

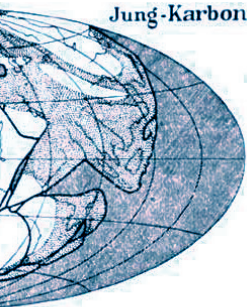
DYNAMIC EARTH – from Alfred Wegener to today and beyond DYNAMISCHE ERDE – von Alfred Wegener bis heute und in die Zukunft



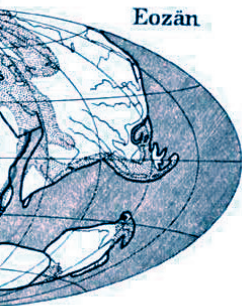
SAVE THE DATE • Berlin • 4–7 October 2015 • www.geoberlin2015.de



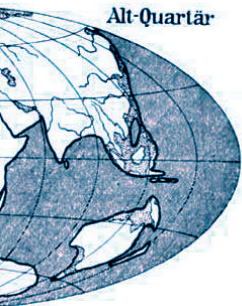
Jung-Karbon



Eozän



Alt-Quartär



Dear Geoscientists,

Exactly 100 years ago the most outstanding German Geoscientist Alfred Wegener published the first edition of his seminal book “Die Entstehung der Ozeane und der Kontinente” (“The Origin of Continents and Oceans”). Today we all know that his seminal hypothesis was only accepted once the pieces of the “plate tectonics” puzzle were put together in the 1960’s. Wegener was 50 years ahead of his time. We should never forget that Wegener was a meteorologist and astronomer. He pursued his research on the thermodynamics of the atmosphere and impact craters with as much energy as his development of “continental drift”.

In our meeting *Dynamic Earth - from Alfred Wegener to today and beyond* we will review how Wegener’s findings evolved into modern Earth system science including its impact on climate and the Earth surface, and how this system affects our daily life: where humans live, what risks we are exposed to, where we find our resources. In the meeting we invite the societies to propose sessions that cover the entire geoscience spectrum (from mineral physics over solid earth geodynamics to the climate sciences). We have invited keynote speakers that are eminent international scientists in these fields. In events open to the general public we will get an account of Wegener’s final trip to Greenland on the history of science of his hypothesis.

The conference takes place in the Henry Ford Bau of the FU Berlin, is staged by the FU Berlin and GFZ Potsdam, and is supported by the Potsdam-Berlin Geosciences coordination platform Geo.X. It is the joint annual meeting of the Deutsche Gesellschaft für Geowissenschaften (DGG), Deutsche Mineralogische Gesellschaft (DMG), and Geologische Vereinigung (GV).

The Potsdam-Berlin research platform Geo.X will stage the Geo.X School “Methods in Geosciences” in the week before the conference: 28th September - 1st October 2015.

Alfred Wegener was born in Berlin. Hence it is timely that we review his hypotheses and its impact for our lives today in a stimulating geoscience meeting in Berlin. We are looking forward to welcome you here!

With best regards,

Friedhelm von Blanckenburg

for the Organising Committee

Plenary Keynotes

PROF. DAN MCKENZIE (University of Cambridge, GB):
The Lithospheric Structure of Pangea and Central Asia: The Rules of Craton Assembly

PROF. MAUREEN RAYMO (Lamont Doherty Earth Observatory, USA):
Tectonic Forcing of Cenozoic Climate - The Consequences of India’s Collision with Asia

PROF. BARBARA ROMANOWICZ (IPG Paris and Berkeley University, USA):
Global Mantle Imaging in the Age of High Speed Wavefield Computations

PROF. TROND TORSVIK (University of Oslo, Norway):
Paleomagnetism and Plate Tectonics



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SESSIONS

A PLATE TECTONICS: GEOLOGICAL AND GEOPHYSICAL PROCESSES

- A1 Subduction Zone Processes
- A2 Rifting / Continental Breakup / MORB / Transform Faults
- A3 Spanning the Scales of Orogenic Processes – from Grains to Mountains, from Seconds to Epochs
- A4 Planetary Plate Tectonics and Impact Cratering Studies
- A5 Mantle Circulation / Driving Forces
- A6 Evolution – Diversity as a Result of Plate Tectonics
- A7 Climate and Plate Tectonics / Planetary Climate
- A8 Climatic Evolution and Sedimentation during Glacial Stages

B PLATE TECTONICS: CONSEQUENCES FOR MANKIND

- B1 Oil and Gas Resources
- B2 Mineral Resources and their Usage
- B3 Risks (Tsunamis, Earthquakes, Landslides)
- B4 Topography and Human Habitat
- B5 Utilisation of the Subsurface / Geothermal Energy

C HISTORICAL SESSION

Alfred Wegener: Life and Scientific Achievements

D OPEN SESSIONS

