

## Workshops

- W 1: Free Software for Plate Reconstructions, Geodata Analysis and Map Making
- W 2: Geodetic Methods in Geology (GPS, InSAR, Lidar, 3D Laser scanner, Altimetry)
- W 3: Neotectonics, Tectonic Geomorphology and Paleoseismology of Tectonically Active Regions
- W 4: Analysis of Microfabrics in Metamorphic and Magmatic Rocks as a Tool for Understanding Deformation Processes on Various Scales

## Field Trips

**Pre-Conference (Aug. 21<sup>st</sup> to Sep. 4<sup>th</sup>)**

### Long Trips

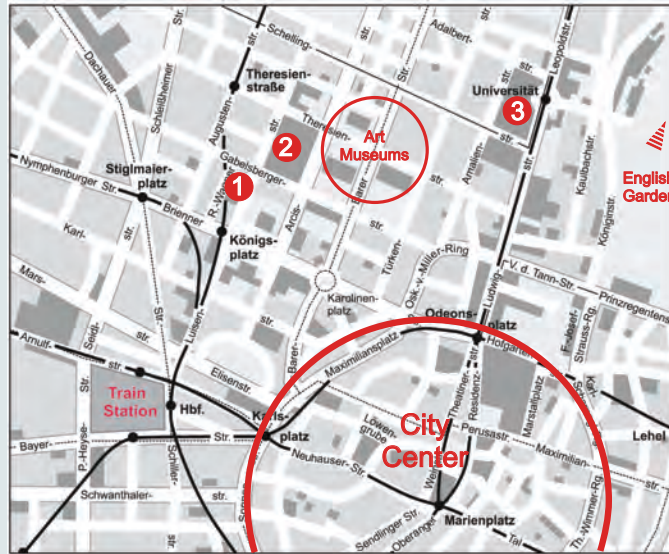
- E 1: Transalp 1 (Tauern Window)
- E 2: Transalp 2 (Northern Alps & foreland basin)
- E 3: Tectonometamorphic Evolution of the Alps

### One Day Trips

- E 4: German Aerospace Center (DLR)
- E 5: Salt Mine Berchtesgaden
- E 6: Geodetic Observatory Wettzell
- E 7: Paleomagnetic Observatory
- E 8: Naturwerksteine Münchens
- E 9: Quaternary Geology of the Alpine Foreland
- E 10: Monitoring of Alpine Glaciers, Austria

### Post - Conference (Sep. 8<sup>th</sup> to 14<sup>th</sup>)

- E 11: Transalp 3 (Southern Alps and Dolomites)
- E 12: Eastern Alps South of Salzburg
- E 13: Natural Hazards of the Northern Alps
- E 14: Geo Resources of Bavaria
- E 15: Geothermal Fields in Tuscany, Italy
- E 16: Ries Impact Crater
- E 17: Continental Deep Drilling Site (KTB Borehole)
- E 18: AWG Field Trip
- E 19: Geoparks of Germany



- ① LMU Geology
- ② TU Geology
- ③ University of Munich (meeting venue)

### Conference Location

Ludwig-Maximilians-University (LMU) Main Building,  
Geschwister-Scholl-Platz 1, 80539 Munich, Germany

### Deadlines

#### Call for Sessions and Field Trips: January 15<sup>th</sup>, 2011

Please submit suggestions to [info@geomunich2011.de](mailto:info@geomunich2011.de)  
by no later than the above deadline.

#### Abstract Deadline: April 15<sup>th</sup>, 2011

Information about oral or poster presentations, abstract submission process, registration deadline and fees, student travel aid, and lodging will be given on the webpage in February 2011.

Alumni and Students: Please check webpage for events

### Contact Information

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Deutsche Gesellschaft für Geowissenschaften  
German Society for Geosciences (Established 1908) DGG

# FRAGILE EARTH

**Geological Processes from Global to Local Scales, Associated Hazards and Resources**

**International Conference  
4 – 7 September 2011, Munich, Germany**

**First Circular:  
Call for Sessions and Field Trips**



Dear colleagues,

The geosciences are one of the most important scientific fields of the 21<sup>st</sup> century. The growing world population faces risks due to geological hazards, but also profits from geological resources. Mitigation of risks and availability of resources depends on the *understanding of complex and transient geological processes acting at global, regional and local scales*. This conference provides an international platform for research on global geodynamic processes and plate motion, regional plate boundary processes and their associated resources (e.g. oil, gas and geothermal energy), and on dynamics of fault networks and magmatic systems with their associated hazards (e.g. earthquakes and volcanic eruptions). We look forward to welcoming you in Munich.

Ralf Littke & Gerold Wefer (GV), Joaquin Ruiz (GSA), Stefan Wohnlich (DGG)

#### Technical Program

Alexander Allmann (Munich Re, Germany), Richard Bamler (DLR, Germany), Lukas Baumgartner (U of Lausanne, Switzerland), Hans-Peter Bunge, Donald B. Dingwell, Wolfgang Eder, Anke M. Friedrich, (LMU Munich, Germany), Clark Burchfiel (MIT, USA), Sierd Cloetingh (U of Amsterdam, Netherlands), Reinhard Gaupp (U of Jena, Germany), Mark Handy, Christoph Heubeck (FU Berlin, Germany), Wesley Hill (GSA, Boulder, USA), Kip Hodges (ASU, Tucson, USA), Martha House (Pasadena City College, USA), Reinhard Hüttel, (GFZ Potsdam, Germany), Jörn Kruhl, Kurosch Thuro, Jörg Völkl (TU Munich, Germany), Ralf Littke (U of Aachen, Germany), Eric Kirby (PennState, USA), Cheryl Manning (Evergreen, CO, USA), Martin Melles (U of Cologne, Germany), Werner Stackebrandt (LBGR Brandenburg, Germany), John Suppe (NTU, Taiwan), Claudia Trepmann, Stefan Wohnlich (U of Bochum, Germany), Bruce Yardley (U of Leeds, UK)

#### Field Trips

Sara Carena, Bernd Lammerer (LMU Munich, Germany); Bernhard Fügenschuh (U of Innsbruck, Austria); Franz Neubauer (U of Salzburg, Austria)

#### Logistics

Melissa Cummiskey, Jack Hess (GSA, Boulder, USA), Heide Felske, Anke Friedrich, Constantin Hagen, Karin Hessinger, Günther Neumeier, Helen Pfuhl (LMU Munich, Germany), Gerhard Greiner, Rita Spitzlei (GV, Mendig, Germany), Monika Huch, Heinz-Gerd Röhling (DGG, Hannover; Germany)

## Conference Schedule

**Ice Breaker** Sep. 4<sup>th</sup>, 18:00, LMU Main Building

**Conference, Exhibits, and Awards Ceremony**

Sep. 5<sup>th</sup> to 7<sup>th</sup> (8:30–18:30), LMU Main Building

**Public Evening Lecture** Sep. 5<sup>th</sup>, 20:00

**Conference Dinner**

Sep. 6<sup>th</sup>, 19:00, Seehaus at the English Garden

*We encourage suggestions for additional theme sessions, sub sessions to the existing theme sessions, open sessions, workshops and excursions. In particular we solicit session contributions from large research initiatives (e.g., Antarctica, EarthScope, GeoPRISMS, ICDP/IODP, MEDUSA, SAMPLE, TOPO-EUROPE) (submit to: Anke Friedrich, info@geomunich2011.de)*

## Preliminary Session Program

**Plenary Session P 1** (Sep. 5<sup>th</sup>, morning)

*Global Geological Processes and Climate Change*

**Plenary Session P 2** (Sep. 6<sup>th</sup>, morning)

*Regional Geological Processes and Resources:*

- Plate Boundary Evolution and Deformation in Convergent Settings – From Subduction to Alpine-Himalayan-Type Collision

**Plenary Session P 3** (Sep. 7<sup>th</sup>, morning)

*Local Geological Processes and Natural Hazards:*

- Dynamics of Volcanic Systems and Intraplate Fault Networks With Their Associated Hazards

**Theme Session S 1: Global Geological Processes**

- Global Plate Reconstructions and Mantle Imaging
- Global Sea Level Fluctuations and Climate Change

**Theme Session S2: Regional Geological Processes**

- Subduction and Collision Processes Through Time in the Mediterranean Area — From the Deep Mantle to the Surface
- Evolution of Sedimentary Basins

**Theme Session S 3: Local Geological Processes**

- Mechanics of Earthquakes, Volcanic Eruptions, Landslides, and Impact Craters

**Theme Session S 4: Geological Resources**

- Oil, Oil Sands, Gas, Coal, Geothermal Energy, Carbon Sequestration, Mineral Resources, Water

**Theme Session S 5: Geological Hazards and Risks**

- Natural Hazards and Risk Mitigation in the Alps and the Northern Alpine Foreland (Earthquakes, Landslides, Flooding).
- The 2010 Eyjafjallajökull Volcanic Eruption and Consequences for Society

**Theme Session S 6: Geoeducation — Earth Sciences for Society**

- Teachers Education (K12), Outreach, Geoheritage, Conservation, Geoparks and Tourism.

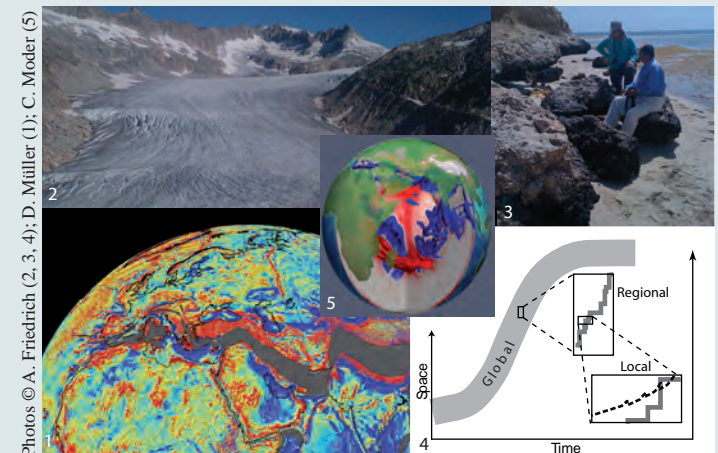
**Open Sessions (Preliminary Program)**

**OS 1:** Current and Future Geodetic Satellite Missions and Their Applications to Geology.

**OS 2:** Advances in Geochronology: Measuring Rates of Geological Processes Across Scales.

**OS 3:** State of the Art in Geological Mapping at Research Institutions, the Military, and Geological Surveys.

**OS 4:** Regional Geology of Central Europe



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