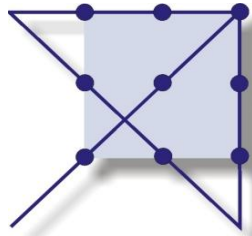




TOPO-EUROPE



Klaus Tschira  
Foundation  
gGmbH



Academia  
Europaea



International  
Lithosphere  
Program



European  
Science  
Foundation

## 5th TOPO-EUROPE Workshop

Thursday 15 - Saturday 17 October 2009

Klaus Tschira Foundation gGmbH  
Studio Villa Bosch, Heidelberg

Schloss-Wolfsbrunnenweg 33, 69118 Heidelberg

<http://www.topo-europe.eu/heidelberg>

Organized by:

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Academia Europaea

## Thursday 15th October

- 16.00 Participants gather at the Crowne Plaza Hotel
- 16.10 Bus to the Studio Villa Bosch
- 16.45-18.00 *Buffet supper at Studio Villa Bosch*
- Session 1 (Carl Bosch Auditorium)**  
Introduction  
Chair: Sierd Cloetingh  
VU University Amsterdam, The Netherlands, [sierd.cloetingh@falw.vu.nl](mailto:sierd.cloetingh@falw.vu.nl)
- 18.00-18.30 Sierd Cloetingh and the TOPO-EUROPE working group  
Vrije Universiteit Amsterdam, the Netherlands, [sierd.cloetingh@falw.vu.nl](mailto:sierd.cloetingh@falw.vu.nl)  
Perspectives on TOPO-EUROPE
- 18.30-19.00 Evgenii Burov  
Université Pierre et Marie Curie - Paris VI, [evgenii.burov@lgs.jussieu.fr](mailto:evgenii.burov@lgs.jussieu.fr)  
Coupled lithosphere and surface processes: insights from numerical modelling
- 19.00-19.30 Phil Gibbard  
University of Cambridge, UK, [plg1@cam.ac.uk](mailto:plg1@cam.ac.uk)  
Rivers and landscape evolution
- 19.30-20.00 Michael A. Ellis and S.G. Pearson  
British Geological Survey, UK, [mich3@bgs.ac.uk](mailto:mich3@bgs.ac.uk)  
Understanding and living in a vulnerable landscape
- 20.05-20.15 Discussion
- 20.20 Bus to the hotel

## Friday 16th October

- 08.30 Bus to the Studio Villa Bosch
- Session 2 (Carl Bosch Auditorium)**  
The Deep Earth perspective  
Chair: Hans Thybo  
University of Copenhagen, Denmark, [thybo@geo.ku.dk](mailto:thybo@geo.ku.dk)
- 09.00-09.30 Wim Spakman  
University of Utrecht, The Netherlands, [wims@geo.uu.nl](mailto:wims@geo.uu.nl)  
Mantle sources for surface topography in Europe
- 09.30-10.00 Irina M. Artemieva  
University of Copenhagen, Denmark, [irina@geol.ku.dk](mailto:irina@geol.ku.dk)  
Heterogeneous lithosphere of the continents: Geophysical evidence
- 10.00-10.30 Valerie Maupin and the TopoScandiaDeep working group  
University of Oslo, Norway, [valerie.maupin@geo.uio.no](mailto:valerie.maupin@geo.uio.no)  
The Scandinavian mountain chain: deep processes (TopoScandiaDeep)

10.30-11.00 *Coffee break*

### **Session 2 (Carl Bosch Auditorium)**

The Deep Earth perspective (continued)

Chair: Rinus Wortel

University of Utrecht, The Netherlands, [wortel@geo.uu.nl](mailto:wortel@geo.uu.nl)

11.00-11.30

Hans Thybo

University of Copenhagen, Denmark, [thybo@geol.ku.dk](mailto:thybo@geol.ku.dk)

MagnusRex project in Norway and its connection to isostasy

11.30-12.00

Trond H. Torsvik, B. Steinberger

Geological Survey/University of Oslo, Norway, [trond.torsvik@ngu.no](mailto:trond.torsvik@ngu.no)

Absolute Plate Motions and Dynamic Topography for the European-Mediterranean Region

12.00-12.30

Alik Ismail-Zadeh, G. Schubert, I. Tsepelev

University of Karlsruhe, Germany, [alik.ismail-zadeh@mpi.uni-karlsruhe.de](mailto:alik.ismail-zadeh@mpi.uni-karlsruhe.de)

Inverse retrospective problems in geodynamics (how can the processes in the Earth interior and on its surface be reconstructed quantitatively?)

12.30-13.30 *Lunch*

### **Session 3 (Carl Bosch Auditorium)**

From subduction to plateaus

Chair: Sean D. Willett

ETH Zürich, Switzerland, [swillett@ethz.ch](mailto:swillett@ethz.ch)

13.30-14.00

Rinus Wortel and the TopoMed working group

University of Utrecht, The Netherlands, [wortel@geo.uu.nl](mailto:wortel@geo.uu.nl)

Plate re-organization in the western Mediterranean: Lithospheric causes and topographic consequences (TopoMed)

14.00-14.30

L. Minelli and Claudio Faccenna

University Roma Tre, [faccenna@uniroma3.it](mailto:faccenna@uniroma3.it)

Evolution of the Calabria orogenic wedge: impact of Messinian salinity crisis

14.30-15.00

Manfred Strecker and the VAMP team

University of Potsdam, Germany, [strecker@geo.uni-potsdam.de](mailto:strecker@geo.uni-potsdam.de)

Assessing the uplift history of the Anatolian Plateau

15.00-15.30

Giovanni Bertotti

VU University Amsterdam, The Netherlands, [giovanni.bertotti@falw.vu.nl](mailto:giovanni.bertotti@falw.vu.nl)

The evolution of the Central Anatolia Plateau: news from the VAMP project and implications for orogenic plateau studies

15.30-16.00 *Coffee break*

### **Session 4 (Carl Bosch Auditorium)**

The orogenic perspective

Chair: Manfred Strecker

University of Potsdam, Germany, [strecker@geo.uni-potsdam.de](mailto:strecker@geo.uni-potsdam.de)

- 16.00-16.30 Ritske Huismans  
University of Bergen, Norway, [ritske.huismans@geo.uib.no](mailto:ritske.huismans@geo.uib.no)  
Formation and breakdown of the Pyrenean mountain belt: relation between tectonics, surface processes, and climate
- 16.30-17.00 Liviu Matenco  
VU University Amsterdam, The Netherlands, [liviu.matenco@falw.vu.nl](mailto:liviu.matenco@falw.vu.nl)  
Orogenic mechanics - new concepts for the evolution of lower plates during collision
- 17.00-17.30 Bernhard Fügenschuh  
University of Innsbruck, Austria, [bernhard.fuegenschuh@uibk.ac.at](mailto:bernhard.fuegenschuh@uibk.ac.at)  
Lessons from the Alps: what do we know and what can we learn
- 17.30-18.00 Sean Willett, F. Herman, P. Yamato, B. Salcher  
ETH Zürich, Switzerland, [swillett@ethz.ch](mailto:swillett@ethz.ch)  
Modelling Alpine Topography over Multiple Spatial and Temporal Scales
- 18.00 *Reception hosted by Springer Publishers*
- 19.05 Bus to the hotel

## Saturday 17th October

- 08.30 Bus to the Studio Villa Bosch

### Session 5 (Carl Bosch Auditorium)

Landscapes and Climate

Chair: Peter van der Beek

University Joseph Fourier, France, [pvdbeek@ujf-grenoble.fr](mailto:pvdbeek@ujf-grenoble.fr)

- 09.00-09.30 Hugh Sinclair, G. Roe, N. Feldl, P. van der Beek, S. Willett  
University of Edinburgh, UK, [hugh.sinclair@glg.ed.ac.uk](mailto:hugh.sinclair@glg.ed.ac.uk)  
Is there a signal of late Cenozoic climate change in the Neogene mountains of Europe?
- 09.30-10.00 Dimitri Lague, P. Davy  
University Rennes 1, France, [dimitri.lague@univ-rennes1.fr](mailto:dimitri.lague@univ-rennes1.fr)  
Models of mountain river incision dynamics pertinent for orogen scale topographic studies
- 10.00-10.30 Ferenc Horváth, G. Bada, E. Dombradi, G. Timar, A. Zámolyi  
ELTE University Budapest, Hungary, [frankh@ludens.elte.hu](mailto:frankh@ludens.elte.hu)  
Topography of the Pannonian basin: interaction between tectonic and surface processes
- 10.30-11.00 *Coffee break*

### Session 6 (Carl Bosch Auditorium)

Topography and Source-Sink systems

Chair: Ritske Huismans

University of Bergen, Norway, [ritske.huismans@geo.uib.no](mailto:ritske.huismans@geo.uib.no)

- 11.00-11.30 Paul Andriessen and the SourceSink working group  
VU University Amsterdam, The Netherlands, [paul.andriessen@falw.vu.nl](mailto:paul.andriessen@falw.vu.nl)  
From Source to Sink: integrated natural hazard assessment through the quantification of mass transfer from mountain ranges to active sedimentary basins (SourceSink)
- 11.30-12.00 Peter van de Beek, P. Valla, C. Glotzbach and C. Fillon  
University Joseph Fourier, France, [pvdbeek@ujf-grenoble.fr](mailto:pvdbeek@ujf-grenoble.fr)  
Extracting quantitative information on denudation and relief history from thermo-chronological data: Examples from the western Alps and Pyrenees
- 12.00-12.30 Fritz Schlunegger, L. Abbühl  
University of Bern, Switzerland, [schlunegger@geo.unibe.ch](mailto:schlunegger@geo.unibe.ch)  
Allocating sediment sources in the Alps for Holocene time scales

12.30-13.30 *Lunch*

### **Session 7 (Carl Bosch Auditorium)**

Intraplate Topography

Chair: Liviu Matenco

VU University Amsterdam, The Netherlands, [liviu.matenco@falw.vu.nl](mailto:liviu.matenco@falw.vu.nl)

- 13.30-14.00 Josep Gallart and the TopoIberia working group  
CSIC Institute Jaume Almera, Barcelona, Spain, [jgallart@ija.csic.es](mailto:jgallart@ija.csic.es)  
Topo-Iberia: current activities and preliminary results
- 14.00-14.30 Gerardo de Vicente Munoz  
University Complutense Madrid, Spain, [gdv@geo.ucm.es](mailto:gdv@geo.ucm.es)  
A multidisciplinary approach to Iberia Cenozoic tectonics
- 14.30-15.00 Jan-Diederik van Wees, A. Lankreijer, S. Cloetingh, F. Beekman  
TNO Utrecht, The Netherlands, [jan\\_diederik.vanwees@tno.nl](mailto:jan_diederik.vanwees@tno.nl)  
Neotectonic evolution of north-western Europe and geothermal exploration: a TOPO-WECEP perspective
- 15.00-15.30 Magdalena Scheck-Wenderoth and DEFINE working group  
GFZ German Research Centre for Geosciences, Potsdam, Germany,  
[leni@gfz-potsdam.de](mailto:leni@gfz-potsdam.de)  
Deformation of Intraplate central Europe - a new research initiative
- 15.30-16.00 *Coffee break*
- 16.00-16.30 Jean Braun, F. Guillocheau and the TOPO-AFRICA team  
University Rennes 1, France, [jean.braun@univ-rennes1.fr](mailto:jean.braun@univ-rennes1.fr)  
TOPO-AFRICA: unravelling the topographic evolution of the African continent and the dynamics of the underlying mantle

### **Session 8 (Carl Bosch Auditorium)**

Sea-level changes and research infrastructure

Chair: Paul Andriessen

VU University Amsterdam, The Netherlands, [paul.andriessen@falw.vu.nl](mailto:paul.andriessen@falw.vu.nl)

- 16.30-17.00 Jürgen Kusche and the RESEL-GRACE working group  
GFZ German Research Centre for Geosciences, Potsdam, Germany,  
[jkusche@gfz-potsdam.de](mailto:jkusche@gfz-potsdam.de)  
Refined European sea level estimations by combining altimetry, tide gauges,  
hydrographic and other data sets with improved regional GIA modelling and tailored  
regional GRACE gravity field models (RESEL-GRACE)
- 17.00-17.30 B. Vermeersen, W. van der Wal, P. Stocchi, M. Drury, H. Schotman, P. Wu  
Technical University Delft, The Netherlands, [L.L.A.Vermeersen@tudelft.nl](mailto:L.L.A.Vermeersen@tudelft.nl)  
Glacial Isostasy and Associated Sea Level Estimations for NW-Europe
- 17.30-18.00 Massimo Cocco, T. Van Eck, D. Giardini, A. Michelini and the EPOS team  
National Institute of Geophysics and Volcanology, Roma, Italy, [cocco@ingv.it](mailto:cocco@ingv.it)  
EPOS the European Plate Observing System, a new platform for coordinating solid Earth  
research infrastructures at pan-European level
- 18.05 Bus to the hotel
- 19.00 *Dinner at Weisser Bock Restaurant*  
(Große Mantelgasse 24, 69117 Heidelberg)

Note: Reserve invited talk or otherwise an invited poster:  
Friedhelm von Blanckenburg  
GFZ German Research Centre for Geosciences, Potsdam, Germany,  
[fvb@gfz-potsdam.de](mailto:fvb@gfz-potsdam.de)  
The Erosion and Uplift of the Alps

21/05/09 TMcG