

## ORGANIZING COMMITTEE

### Xavier DEVLEESCHOUWER

Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium

### Vanessa HEYVAERT

Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium

### Stephen LOUWYÉ

Ghent University, Department of Geology & Soil Science, Belgium

### Kris PIESENS

Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium

### Thierry SMITH

Royal Belgian Institute of Natural Sciences, Department of Paleontology

## SCIENTIFIC COMMITTEE

### Luc ANDRÉ

Royal Museum for Central Africa, Belgium

### Cecile BAETEMAN

Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium

### Jean-Marc BAELE

University of Mons, Belgium

### Thierry CAMELBEEK

Royal Observatory of Belgium, Belgium

### Marc DE BATIST

Ghent University, Belgium

### Karl FOELLM

University of Lausanne, Switzerland

### Philippe GERRIENNE

University of Liège, Belgium

### Philip GINGERICH

University of Michigan, USA

### Philippe HUYBRECHTS

Vrije Universiteit Brussel, Belgium

### Johan MATTHYS

Flemish Institute for Technological Research, Belgium

### Glenn MILNE

University of Ottawa, Canada

### Frank PATTYN

Université Libre de Bruxelles, Belgium

### Stéphane PIRSON

Walloon Region, Belgium

### Manuel SINTUBIN

Katholieke Universiteit Leuven, Belgium

### Dorit SIVAN

University of Haifa, Israel

### Trond TORSVIK

University of Oslo, Norway

### Johan YANS

University of Namur, Belgium



*The Royal Belgian Institute of Natural Sciences located in the city center of Brussels next to the European parliament.*

## VENUE

Royal Belgian Institute of Natural Sciences

rue Vautier, 29  
B1000 Brussels  
Belgium

## REGISTRATION/ CONFERENCE FEE

Early registration until June 15th 2012.  
Non students 160 euro / students 75 euro.

Regular registration until July 1st 2012.  
Non students 250 euro / students 200 euro.

# 4<sup>th</sup> International Geologica Belgica Meeting 2012

September 11-14, 2012  
Brussels, Belgium

## MOVING PLATES AND MELTING ICECAPS PROCESSES AND FORCING FACTORS IN GEOLOGY



# GB 2012

[www.geologicabelgica.be/GB2012](http://www.geologicabelgica.be/GB2012)  
Contact: [geologicabelgica2012@naturalsciences.be](mailto:geologicabelgica2012@naturalsciences.be)

## IMPORTANT DATES

- |               |  |
|---------------|--|
| April 1, 2012 | Opening of early registration and payment of registration fees   |
| May 1, 2012   | Deadline for abstract submission                                 |
| June 1, 2012  | Evaluation of abstracts and e-mail of acceptance sent to authors |
| June 15, 2012 | Deadline for payment for early registration                      |
| July 1, 2012  | Deadline for payment for regular registration                    |





## SCIENTIFIC PROGRAM

The scientific program consists of 4 themes, including 16 sessions. The organizing committee will possibly decide, after the deadline for abstract submission, to update the scientific program taking into account contributions to each session.

### Theme 1: On Greenhouses & Icehouses

#### Topic 1. Polar Realm: Evolution and Perspectives

- Session 1.* Antarctica's contribution to past and future sea-level change
- Session 2.* Greenland's contribution to past and future sea-level change

#### Topic 2. Earth at Extremes

- Session 3.* Magnetic susceptibility: a high resolution stratigraphic tool during greenhouse periods
- Session 4.* Black shales formation during anoxic event: climate and biodiversity variations
- Session 5.* Paleocene-Eocene Thermal Maximum: sedimentology, geochemistry and the biotic response

#### Topic 3. Environmental change since the Last Glacial Maximum

- Session 6.* Event-scale and permanent flooding of coasts, floodplains and continental shelves
- Session 7.* Geohazards and environmental changes in an archaeological context

### Theme 2: Drifting Plates: Mechanism & Effects

#### Topic 4. Moving plates & Moving biotas

- Session 8.* Dispersal of land vertebrates during the Paleogene
- Session 9.* Micro-organisms, palynomorphs and paleogeography
- Session 10.* Evolution of eukaryotes through time

#### Topic 5. Tectonics

- Session 11.* Geodynamics, metamorphism and magmatism
- Session 12.* The Brittle-Ductile record of earthquakes

### Theme 3: Georesources: Present & Future Challenges

- Session 13.* Ore geology: new advances and interdisciplinarity
- Session 14.* A future with geo-energy
- Session 15.* Sustainable use of natural resources

### Theme 4: New frontiers: interdisciplinary advances in geological science

- Session 16.* (open session)

## KEYNOTE LECTURES

The following keynote speakers are confirmed

- Karl FOELLM** (University of Lausanne, Switzerland)
- Philip GINGERICH** (University of Michigan, USA)
- Glenn MILNE** (University of Ottawa, Canada)
- Dorit SIVAN** (University of Haifa, Israel)
- Trond TORSVIK** (University of Oslo, Norway)

## GENERAL CONFERENCE PROGRAM

- September 11, 2012** Registration and icebreaker party
- September 12–14, 2012** Scientific sessions
- September 15–17, 2012** Post-conference field trips

## SOCIAL PROGRAM

Ice Breaker party will take place on the evening of the 11th of September 2012 at the Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium.

A visit to the RBINS exhibitions will be organized during the meeting. ([www.naturalsciences.be/museum](http://www.naturalsciences.be/museum))

## FIELD TRIPS

The following post-conference fieldtrips are confirmed:

- Quartz veins in the High-Ardenne slate belt, a proxy for hydrotectonic coupling at the base of the seismogenic crust?  
*M. SINTUBIN*  
(*K.U.Leuven, Belgium*)
- Sedimentology, Magnetic Susceptibility, Gamma-Ray Spectrometry in Devonian to Carboniferous rocks of the Ardennes.  
*X. DEVLEESCHOUWER*  
(*Royal Belgian Institute for Natural Sciences, Geological Survey of Belgium*)
- Streets and facades of Brussels, image building in natural stone.  
*M. DE CEUKELAIRE*  
(*Royal Belgian Institute for Natural Sciences, Geological Survey of Belgium*)

## WELCOME TO BRUSSELS, BELGIUM

The **Geological Society of Belgium**, 'Geologica Belgica', is happy to welcome you all to its **4<sup>th</sup> International conference** that will take place at the conference center of the Royal Belgian Institute of Natural sciences ([www.naturalsciences.be](http://www.naturalsciences.be)) in Brussels on September 11-14, 2012.



### Alfred Wegener and the centennial of the concept of continental drift.

This international conference is organized under the general theme "Moving plates and melting icecaps - Processes and forcing factors in geology" to celebrate the centenary of the first paper on the concept of moving continents published by

Alfred Wegener (Wegener, 1912) who died at the age of 50 during an expedition in Greenland.

Wegener A. 1912. *Die Entstehung der Kontinente*. *Geologische Rundschau* 3, p. 276-292. (<http://www.springerlink.com/content/u62w514x720482hu/>)