

97th Journées Luxembourgeoises de Géodynamique (JLG)

October 2-4, 2013

- SCIENTIFIC PROGRAM -

Wednesday October 2

11:00 – 12:00 Registration, Welcome

12:00 – 13:00 Lunch

13:00 – 13:50 Registration, Welcome

Afternoon session 1

13:50 – 14:00 M. Bonatz
Welcome and introduction to JLG

14:00 – 14:20 M. Bonatz
Opening lecture: Gravimetric aspects of the present
cosmological standard model - Dark Matter und Dark Energy

14:20 – 14:40 J. Schall, A. Eicker, and J. Kusche
Global and regional gravity field models from GOCE data

14:40 – 15:00 T. van Dam, O. Francis and J. Wahr
Absolute Gravity versus Surface Uplift Observations in
Greenland

15:00 – 15:20 M. Weigelt, T. van Dam and O. Francis
The Decade of the Geopotential – techniques to observe the gravity field from space

15:20 – 15:40 G. Jentzsch
The Geodynamic Observatory Moxa / Thuringia: History, present status and future plans

15:40 – 16:20 Coffee Break

Afternoon session 2

16:20 – 16:40 M. van Ruymbeke, J.-P. Noël, F. Wielant and S. Naslin
The Gsvp balance project developed at the Royal Observatory of Belgium

16:40 – 17:00 M. Bonatz
Metrological Problems with Modern Gravimeters

17:00 – 17:20 A. Shabanloui, J. Schall and J. Kusche
Experiment with the Bonn Scintrex CG-5

17:20 – 17:40 Ping Zhu, M. van Ruymbeke and O. Karatekin
The Bolometric Oscillation Sensors for Micro- and Nano-satellite missions

Thursday October 3

- 09:00 – 09:20 Z. Altamimi, X. Collilieux and L. Métivier
The International Terrestrial Reference Frame : preparation for ITRF 2013
- 09:20 – 09:40 J. Ray, J. Griffiths, X. Collilieux and P. Rebischung
Subseasonal GNSS Positioning Errors
- 09:40 – 10:00 T. Meyrath, T. van Dam, and M. Weigelt
Inferring gravitational changes from variations in the Earth's rotation
- 10:00 – 10:20 Walter Zuern, Dieter Emter and Heinz Otto
Some key experiments for the validation of local elastic effects on Earth Tide tilts and strains
- 10:20 – 10:40 M. Bonatz
Prediction of Gravimetric Noise for Western Europe
- 10:40 – 11:20 Coffee Break**
- 11:20 – 11:40 N. d'Oreye, B. Smets and S. Samsonov
High Spatio-Temporal Resolution Multisensors InSAR time series used for anthropogenic and natural ground deformation monitoring: cases studies of volcanic deformation in DR Congo and mining subsidence in the Greater Region
- 11:40 – 12:00 A. Arjona, N. d'Oreye and A. Vilorio
Detection of Trend Changes and Outliers from Multidimensional Time Series : applications to ground deformation in the Virunga Volcanic Province

- 12:00 – 12:20 F. Albino, F. Kervyn, B. Smets and N. d'Oreye
Study and monitoring of Virunga volcanoes through Tandem-X interferometry
- 12:20 – 12:40 B. Smets, N. d'Oreye and F. Kervyn
The importance of multidisciplinary volcano monitoring: pre- and co-eruptive activity during the Nyamulagira 2010 eruption (D.R. Congo)

12:40 – 14:00 Lunch

Afternoon session 1

- 14:00 – 14:20 A. Oth and A. Kaiser
The fingerprints of earthquake stress release variations: examples from Japan and New Zealand
- 14:20 – 14:40 J. Stankiewicz, D. Bindi, A. Oth and S. Parolai
Designing efficient earthquake early warning systems: case study of Almaty, Kazakhstan
- 14:40 – 15:00 M. Picozzi, A. Zollo, S. Colombelli, A. Emolo, G. Festa, L. Elia, and C. Martino.
New directions in real-time earthquake characterization, loss and structural damage assessment
- 15:00 – 15:20 A. Krein, J. Barrière, A. Oth and R. Schenkluhn.
Analyzing bedload transport in small rivers of the low mountain range with seismological and hydroacoustic measurements
- 15:20 – 15:40 J. Barrière, A. Oth, R. Schenkluhn, A. Krein
On the use of the chirplet atomic decomposition for characterizing and classifying bedload signals recorded with hydrophones

15:40 – 16:20 Coffee Break

Afternoon session 2

- 16:20 – 16:40 Walter Zuern and Rudolf Widmer-Schnidrig
High quality low-degree free oscillation observations with strainmeters at the Black Forest Observatory
- 16:40 – 17:00 T. Lecoq, C. Caudron and Florent Brenguier
Studying the Earth with ambient seismic noise
- 17:00 – 17:10 M. Bonatz
The Program-Package GeoDyn16k for detailed Analysis of Gravimetric Time Series
- 17:10 – 17:30 R. Klees (presented by R. Reudink)
Susceptibility of the Scintrex CG-5 relative gravimeters to tilts
- 17:30 – 17:50 R. Meyer, K. Gillis, J. Snow, A. Klaus and the Expedition 345 Scientists
IODP Expedition 345 : Fast-spreading Lower Crust at the Hess Deep Rift
- 19:00 Official Dinner**

Friday October 4

Morning session

- 09:00 – 09:20 J.F. Wagner
Geophysics in Polluted Site Remediation and Landfill Monitoring
- 09:20 – 09:40 R. Meyer and C. Meyer
Biogeochemical characterization of Luxembourgian bituminous shales
- 09:40 – 10:00 D. Delvaux and B. Smets
Neotectonic framework of the Kivu rift region within its Central African context
- 10:00 – 10:20 M. van Ruymbeke, Ping Zhu and Philippe Meuse
Strainmeters observations at the Rochefort karstic underground laboratory
- 10:20 – 10:40 J. Fernandez
Objectives and results of more than 20 years of geodetic research in Canary Islands.

10:40 – 11:20 Coffee Break

- 11:20 – 11:40 A. Eicker, J. Schall and J. Kusche
High-resolution pattern of secular ice mass loss for Greenland from tailored GRACE solutions
- 11:40 – 12:00 M. van Ruymbeke, R. Vieira, Ping Zhu, G. Tuts, J. Arnosó and E.Velez
Multi parametric monitoring EDAS set-up in the Island of Lanzarote (Canarian Archipelago)

Closing session

Lunch

Departure of participants