



# International Association of Geodesy

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## Newsletter

## October 2013

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The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch* (COB) of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB ([newsletter@iag-aig.org](mailto:newsletter@iag-aig.org)). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

Books for review are the responsibility of:

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## General Announcements

### *Publication of the IAG Symposia series*

#### **IAG Symp. 139**

Volume related to the IUGG General Assembly held in Melbourne, Australia from June 28 to July 7, 2011, are planned to appear on the Springer Web site on November 30, 2013. It will be named "Earth on the Edge: Science for a Sustainable Planet" (Eds. Chris Rizos, Pascal Willis) and will be published in print in early 2014. Page numbers will soon be available to all authors.

Articles should be available online soon at the following URL: <http://www.springer.com/earth+sciences+and+geography/geophysics/book/978-3-642-37221-6>

#### **IAG Symp. 140**

Following the First International Workshop on the Quality of Geodetic Observation and Monitoring Systems (QuGOM'11), held in Garching/Munich, Germany from April 13 to 15, 2011, 24 articles were accepted for publications. Production will soon start with Springer Production. Main Editor is Hansjörg Kutterer. Co-Editors are Hamza Alkhatib, Michael Schmidt, Florian Seitz.

#### **IAG Symp. 141**

Following the International Symposium on Gravity, Geoid and Height Systems (GGHS 2012) held in Venice, Italy from October 9-12, 2012, 61 manuscripts were submitted. All reviews are now complete and articles should soon be sent out to Springer Production. Main editor is Urs Marti. Co-editors are Riccardo Barzaghi, Oliver Baur, Carla Braitenberg, Jianliang Huang, Shuanggen Jin, Isabelle Panet, Laura Sánchez, Herbert Wilmes.

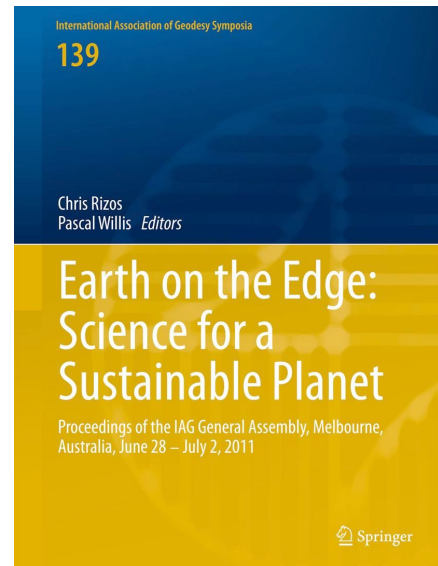
#### **IAG Symp. 142**

Following the VIIIth Hotine-Marussi, held in Rome, Italy, 17-21 June 2013, 49 manuscripts were submitted. Submission Web site is now closed and some articles are still under review. Main Editor is Nico Sneeuw. Co-Editors are A. Dermanis, Mattia Crespi, Robert Čunderlík, Richard Gross, Thomas Hobiger, Wieslaw Kosek, Pavel Novák, Eric Pottier, Fernando Sansò, Michael Schmidt, Matthias Weigelt, Peiliang Xu.

#### **IAG Symp. 143**

Following the IAG Scientific Assembly held in Potsdam, Germany from September 1 to 6, 2013, articles are expected to be submitted through the Springer submission Web site: <http://www.editorialmanager.com/iags>. Technical specifications are also available at the same Web site.

Final deadline for submission was extended to **November 15, 2013**.



CHRIS RIZOS (Editor)  
PASCAL WILLIS (assistant Editor-in-Chief)

## *FugroHelmert launched in July 2013*

Friedrich Robert Helmert(1843-1917) recently gave his name for a research ship: Fugro's new hydro survey vessel *FugroHelmert* was christened and launched on 8 July 2013 at the Fassmer Shipyard in Berne, Germany. At the naming ceremony I had the pleasure to give a speech informing the nearly 200 persons present on the achievements of the famous German geodesist Helmert.

The 41.5 m offshore and coastal survey vessel is designed to produce very limited underwater noise excitation when undertaking hydrographic surveys, light geotechnical work, route and site surveys, environmental baseline surveys, pipeline inspections, and work within the renewable energy sector in worldwide operation. Interestingly, the first travel of the survey vessel goes to the arctic research station Ny-Ålesund on Svalbard which we know well from operating geodetic VLBI and GNSS systems.

HARALD SCHUH  
Helmholtz-Centre Potsdam - GFZ German Research Centre for Geosciences



Photos: © Fassmer

## *A new version of GEOCOL is available*

A new version of GEOCOL is available at <http://cct.gfy.ku.dk/software/geocol19.htm>. The program is still being developed. This "beta" version is available for scientific or teaching purpose. The development is described in

Kaas, E., B. Soerensen, C. C. Tscherning, M. Veichert: Multi-Processing Least Squares Collocation Applications to Gravity Field Analysis. *J. of Geodetic Science*, p. Vol. 3, no. 3, 219-223, 2013. DOI 10.2478/JGOS-2013-0025, see also [http://cct.gfy.ku.dk/publ\\_cct/cct2209.pdf](http://cct.gfy.ku.dk/publ_cct/cct2209.pdf)

An overview of the development in 3D collocation was presented at IAG2013, see

Tscherning, C.C.: Developments in the implementation and use of Least- Squares Collocation. Submitted Proceedings IAG2013. 2013., see [http://cct.gfy.ku.dk/publ\\_cct/cct2218\\_2column.pdf](http://cct.gfy.ku.dk/publ_cct/cct2218_2column.pdf).

C. C. TSCHERNING

## **Meeting Announcements**

### *GENAH 2014 (International Symposium on Geodesy for Earthquake and Natural Hazards)*

International Symposium on Geodesy for Earthquake and Natural Hazards (GENAH 2014) will be held in Matsushima, Miyagi, Japan on 22 - 25 July 2014.

Meeting website : <http://genah2014.jpn.org/index.html>

## 1. Objectives of the Symposium

Monitoring temporal and spatial changes in Earth's lithosphere and atmosphere is critical to disaster mitigation. Geodetic techniques, such as GNSS, SAR, satellite gravity missions, etc., have made significant contributions in this regard, and expectation for a greater role of the geodetic community is still growing. Global Geodetic Observing System (GGOS) is one approach to move forward. In this symposium, researchers in various fields of geodesy will get together in the Town of Matsushima, northeastern Japan, which suffered tsunami damage in 2011, and discuss the role of geodesy in disaster mitigation and how groups with different techniques can collaborate toward such a goal.

## 2. Scientific Topics

- Geodetic satellite systems (GNSS, SAR)
- High rate GNSS
- Emerging new techniques
- Monitoring of gravity change
- Integrated researches of deformations
- Contribution to disaster mitigation
- Global and regional network
- High resolution imaging (InSAR, Lidar)
- Land-based measurements
- Theory and modeling
- Forecast/evaluation of natural hazards

## 3. Scientific Organizing Committee

Eric Fielding (Jet Propulsion Laboratory, NASA, USA)  
Jeff Freymueller (Univ. Alaska, Fairbanks, USA)  
Richard Gross (Jet Propulsion Laboratory, NASA, USA)  
Manabu Hashimoto (Kyoto Univ., Japan)  
Kosuke Heki (Hokkaido Univ., Japan)  
Shuanggen Jin (Shanghai Astronomical Observatory, China)  
Teruyuki Kato (Univ. Tokyo, Japan)  
Cécile Lasserre (Institut des Sciences de la Terre, France)  
Urs Marti (Federal Office of Topography, Switzerland)  
Simon McClusky (The Australian National Univ., Australia)  
Kelin Wang (Geological Survey of Canada, Canada)  
Tim Wright (Univ. Leeds, UK)

## 4. Local Organizing Committee

Makoto Murakami, Masato Furuya (Hokkaido Univ., Japan)  
Satoshi Miura, Motoyuki Kido, Yusaku Ohta (Tohoku Univ., Japan)  
Hiroshi Munekane (Geospatial Information Authority of Japan, Japan)  
Kazunari Nawa (National Institute of Advanced Industrial Science and Technology, Japan)  
Taku Ozawa (National Research Institute for Earth Science and Disaster Prevention, Japan)  
Mariko Sato (Japan Coast Guard, Japan)  
Yoshiyuki Tanaka (Univ. Tokyo, Japan)  
Takeshi Sagiya (Nagoya Univ., Japan)  
Yoichi Fukuda, Shin'ichi Miyazaki, Takuya Nishimura (Kyoto Univ., Japan)  
Takao Tabei (Kochi Univ., Japan)  
Takeshi Matsushima (Kyushu Univ., Japan)  
Shigeru Nakao (Kagoshima Univ., Japan)

KOSUKE HEKI

## *IGAG Commission 1 Symposium 2014 on Reference Frames for Applications in Geosciences (REFAG2014)*

*October 13-17, 2014, Luxembourg*

The main topics of the Symposium include, but not limited to:

- Theory and realization of reference systems;
- Definition, establishment, maintenance and improvement of the geodetic reference frames for Earth science applications;
- Advanced terrestrial and space observation technique development for the above purposes;
- International collaboration for the definition and deployment of networks of terrestrially-based space geodetic observatories;
- Co-locations of geodetic instruments on the ground and in space;
- Definition, establishment, maintenance and integration of regional reference frames;
- Interaction between the celestial and the terrestrial reference frames;
- Usage and applications of reference frames in Geosciences.

The venue of the symposium will be the Hotel Melia on the Kirchberg Plateau in Luxembourg City.

Please save these dates. – A dedicated website will be set up soon.

Best regards  
TONIE VAN DAM

President, Commission 1 (Reference Frames) of the International Association of Geodesy.

### *Meetings Calendar*

#### ICAG 2013

*November 5-13, 2013, Walferdange Underground Laboratory, Luxembourg*  
International Comparison of Absolute Gravimeters

#### GRMSE2013

*November 8-10, 2013, Wuhan, China*  
International Conference on Geo-Informatics in Resource Management & Sustainable Ecosystem  
URL: <http://www.ggers.org/>

#### Eighth Meeting of the International Committee on GNSS (ICG-8)

*November 10-14, 2013, Dubai, United Arab Emirates*  
URL: <http://icg8dubai.ae/>

#### 18th International Workshop on Laser Ranging

*November 11-15, 2013, Fujiyoshida, Japan*  
URL: <http://geo.science.hit-u.ac.jp/lw18>

#### ICA Workshop

*December 3-5, 2013, Wuhan, China*  
URL: <http://sres.whu.edu.cn/ICA-Workshop>

#### 6th European Workshop on GNSS Signals and Signal Processing

*December 5-6, 2013, Munich, Germany*

URL: <http://ifen.bauv.unibw.de/gnss-signals-workshop/>

#### Gi4DM 2013

*December 9-11, 2013, Hanoi, Vietnam*

9th International Conference on GeoInformation for Disaster Management; Theme: Earth Observation for Disaster Management.

URL: <http://www.gi4dm2013.com>

#### AGU 2013 Fall Meeting

*December 9-13, 2013, San Francisco, CA, USA*

URL: <http://sites.agu.org/meetings/>

#### 50<sup>th</sup> Annual Convention of IGU

*January 8-12, 2014, CSIR-NGRI, Hyderabad, India*

50<sup>th</sup> Annual Convention of IGU will be held during 8-12 January 2014 at CSIR-NGRI, Hyderabad, India. Online Deadline of submission of Extended Abstracts is 14.08.2013, closing of online submission of Extended Abstracts is 15.10.2013.

URL: <http://www.igu.in>

#### 17. Internationaler Ingenieurvermessungskurs

*January 14-17, 2014, Zurich, Switzerland*

URL: <http://www.igp.ethz.ch/iv2014/>

#### ION International Technical Meeting (ITM) 2014

*January 27-29, 2014, San Diego, CA, USA*

URL: <http://www.ion.org/meetings/?conf=itm>

#### SPACOMM 2014

*February 23-27, 2014, Nice, France*

URL: <http://www.iaia.org/conferences2014/SPACOMM14.html>

#### IVS General Meeting

*March 2-7, 2014, Shanghai, China*

URL: <http://ivs2014.csp.escience.cn/>

#### GEOProcessing 2014

*March 23-27, 2014, Barcelona, Spain*

URL: <http://www.iaia.org/conferences2014/GEOProcessing14.html>

#### Munich Satellite Navigation Summit 2014

*March 25-27, 2014, Munich, Germany*

URL: <http://www.munich-satellite-navigation-summit.org/>

#### Third International School on "The KTH Approach to Modeling the Geoid"

*March 31-April 4, 2014, Johor Bahru, Malaysia*

URL: <http://www.infra.kth.se/geo/events/geoidschool.html>

#### INGEO 2014

*April 3- 4, 2014, Prague, Czech Republic*

6<sup>th</sup> International Conference on Engineering Surveying

URL: [https://www.svf.stuba.sk/generate\\_page.php?page\\_id=5061](https://www.svf.stuba.sk/generate_page.php?page_id=5061)

#### European Navigation Conference ENC GNSS 2014

*April 15-17, 2014, Rotterdam, The Netherlands*

URL: <http://www.enc-gnss2014.com/>



European Geosciences Union General Assembly 2014

April 27 – May 2, 2014, Vienna, Austria

URL: <http://www.egu2014.eu/>

IGS Workshop 2014

June 23-27, 2014, Pasadena, CA, USA

URL: <http://igscb.jpl.nasa.gov/pipermail/igsmail/2013/008013.html>

The 3rd International Gravity Field Service (IGFS) General Assembly

June 30-July 6, 2014, Shanghai, China

URL: <http://202.127.29.4/meetings/igfs2014/index.html>

AOGS 11<sup>th</sup> Annual Meeting

July 28-August 1, 2014, Sapporo, Japan

URL: <http://www.asiaoceania.org/aogs2014/public.asp?page=home.htm>

40th COSPAR Scientific Assembly

August 2-10, 2014, Moscow, Russia

URL: <http://www.cospar-assembly.org/>

REFAG2014

October 13-17, 2014, Luxembourg

IAG Commission 1 Symposium 2014 "Reference Frames for Applications in Geosciences"

URL: <http://dgk.badw.de/index.php?id=775>

ILRS Technical Workshop

October 27-31, 2014, Greenbelt, MD, USA

URL: <http://ilrs.gsfc.nasa.gov/about/meetings.html>

ICSU GRC Conference "Improving Geophysical Risk Assessment, Forecasting and Management"

November 18-21, 2014, Madrid, Spain

URL: <http://www.icsu.org/>

AGU 2014 Fall Meeting

December 15-19, 2014, San Francisco, CA, USA

URL: <http://sites.agu.org/meetings/>

European Geosciences Union General Assembly 2015

April 12 – 17, 2015, Vienna, Austria

URL: <http://www.egu.eu>

XXVI IUGG General Assembly

June 22 – July 2, 2015, Prague, Czech Republic

URL: <http://www.iugg.org/assemblies/>

XXIXth IAU General Assembly

August 3 – 14, 2015, Honolulu, Hawaii, USA

URL: [http://www.iau.org/science/meetings/future/general\\_assemblies/1024/](http://www.iau.org/science/meetings/future/general_assemblies/1024/)

41th COSPAR Scientific Assembly

July 30 – August 7, 2016, Istanbul, Turkey

URL: <http://www.cospar-assembly.org/>