



# International Association of Geodesy

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## Newsletter

March 2014

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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

### *Prof. Reiner Rummel receives Honorary Doctor of Philosophy Degree of the Aristotle University of Thessaloniki*



On Wednesday, March 5th, 2014, Prof. Reiner Rummel, was inaugurated as an Honorary Doctor of Philosophy of the School of Rural and Surveying Engineering, Faculty of Engineering, of the Aristotle University of Thessaloniki. The degree was presented to him by the Chairman of the School of Rural and Surveying Engineering (RSE), Prof. Dimitrios Tsoulis, in the presence of the Rector of the University, Prof. I. Mylopoulos and the Dean of the Faculty of Engineering Prof. K. Katsambalos, who also gave adhesion speeches in his honor.

Recognizing his expertise and contributions in theoretical, satellite and physical geodesy, Prof. Rummel received this Degree before the Deanship of the Faculty of Engineering, academic staff, undergraduate and graduate students of the School of RSE. The general command of the day was given by Prof. Katsambalos, while the commendation speech was given by Prof. Athanasios Dermanis. Prof. Rummel after his acceptance speech of the degree presented his talk on *"About the attraction of our Planet"*.

PROF. DIMITRIOS TSOULIS  
Chairman of the School of Rural and Surveying Engineering  
Aristotle University of Thessaloniki

### *Publications 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 is named "Earth on the Edge: Science for a Sustainable Planet" (Eds. Chris Rizos, Pascal Willis), 2014. It contains 617 pages and 429 illustrations, including 218 in colour.

This volume is now published online and in print. Articles from this volume should be referenced in ISI Web of Science (Conference Proceedings Citation Index – Science = CPCI-S) and Scopus, GoogleScholar, as well as many other bibliographic databases.

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

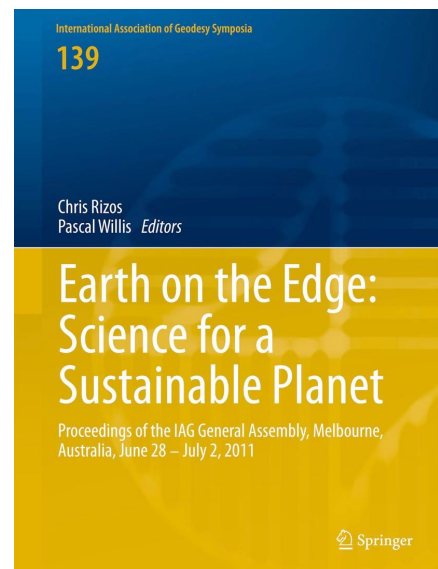
Participants at this meeting can purchase this volume at a specific discounted price and have already been contacted by Hermann Drewes [drewes@dgfi.badw.de](mailto:drewes@dgfi.badw.de) about this offer.

#### **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 13-15, 2011, 24 articles were accepted for publication. Editors are Hansjörg Kutterer, Florian Seitz, Hamza Alkhatib, and Michael Schmidt.

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

Following the International Symposium on Gravity, Geoid and Height Systems (GGHS 2012) held in Venice, Italy from October 9-12, 2012, 42 manuscripts were accepted. 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, June 17-21, 2013, 49 manuscripts were submitted. Submission Web site is now closed and a few articles are still under review. Main Editor is Nico Sneeuw. Co-editors are A. Dermanis, Mattia Crespi, Robert Čunderlík, Richard Gross, Thomas Hobiger, Wiesław Kosek, Pavel Novák, Eric Pottier, Fernando Sansò, Michael Schmidt, Matthias Weigelt.

### **IAG Symp. 143**

Following the IAG Scientific Assembly held in Potsdam, Germany from September 1-6, 2013, 124 were submitted through the Springer submission Web site: <http://www.editorialmanager.com/iags>, which is now closed for submission. Review process is in progress.

### **IAG Symp. 144**

The next volume of the IAG Symposia Series will be related to the REFAG 2014 symposium (Reference Frames for Applications in Geosciences) that will be organized from 14 to 17 October 2014 in Luxemburg by the IAG Commission 1. Main Editor will be Tonie van Dam. Submissions are expected by November 30, 2014 using the Springer Web site: <http://www.editorialmanager.com/iags/default.asp>.



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

## **Meeting Announcements**

### *New GNSS Algorithms and Techniques for Earth Observations 2014 (nGATEo 2014)*

*Croucher Summer Course 2014 – GPS/Beidou/GNSS Satellite Positioning and Navigation and Earth Observation*

*26-31 May 2014, Hong Kong, P.R.China*

Website: <http://projects.croucher.org.hk/summer-courses/new-gnss-algorithms-and-techniques-for-earth-observation>

A 6-day Croucher Summer Course 2014 with a theme on "GPS/Beidou/GNSS Satellite Positioning and Navigation and Earth Observation" will provide an excellent opportunity for internationally distinguished scholars to share their latest research outcomes with summer course participants. It will be an ideal place for all participants to broaden their horizon, diversifying research interests, enhancing their scholarly communications and reach out social network. Anyone interested in this Croucher Summer Course can register and become participant, regardless of whether they are from Hong Kong, Mainland China and any other countries/regions. However, in-school researchers (PhD/MSc students, Postdoc), university junior faculty, industrial R&D engineers/researchers/professionals, and government professional officers will be given high priority in registration.

The Department of Land Surveying & Geo-Informatics (LSGI), at the Hong Kong Polytechnic University (PolyU), Hong Kong, P.R. China, has the great honor to partner with the Croucher Foundation, Hong Kong, to host this Croucher Summer Course 2014 on the campus of PolyU. The Hong Kong Polytechnic University was proudly ranked the 161<sup>st</sup> according to the QS World University Rankings 2013. The Department of Land Surveying & Geo-Informatics (LSGI), supported by a strong team of research and teaching faculty, enjoys a long history offering a variety of geomatics programs in Geodesy, Satellite Navigation, Land Surveying, Geographic Information Science (GIS), Photogrammetry, Remote Sensing, and Underground Utility Surveying and Management. The high quality research work conducted at LSGI is widely recognized in the international

geomatics community and the Science Citation Index (SCI) of LSGI has been consistently ranked at the top in the world over the past many years. The LSGI will proudly celebrate its 30<sup>th</sup> anniversary in May 2014.

*Speakers include:*

- Professor Jeffrey Freymueller Geophysical Institute and Department of Geologic Sciences, University of Alaska
- Professor Yang Gao Department of Geomatics Engineering, University of Calgary
- Professor Per Høeg DTU Space, Technical University of Denmark
- Professor Stelios Mertikas Department of Mineral Resources Engineering, Crete Technical University
- Professor Jade Morton Department of Electrical & Computer Engineering, Miami University
- Professor Chris Rizos School of Civil & Environmental Engineering, NSW, Australia
- Professor CK Shum Division of Geodetic Science, Ohio State University
- Dr Susan Skone Department of Geomatics Engineering, University of Calgary
- Professor Peter Teunissen Faculty of Science and Engineering, Curtin U of Tech
- Professor Kefei Zhang School of Mathematical and GeoSpatial Sciences, RMIT University
- Professor Wu Chen Department of Land Surveying & Geo-Informatics The Hong Kong Polytechnic University (PolyU)

**Lecture Topics for the Croucher Summer Course 2014**

<i>Session</i>	<i>Lecturer</i>	<i>Topic</i>
ONE	Prof. Chris Rizos	The role of IAG data services in support of modern geodesy, precise positioning and reference frame definition
TWO	Prof. C.K. Shum	GNSS Altimetry Theory and Its Applications
THREE	Prof. Peter Teunissen	High-Precision GNSS Attitude Determination
FOUR	Prof. Yang Gao	Precise Point Positioning – Latest and Future Developments
FIVE	Prof. Jade Morton	GNSS Software Receiver Algorithms and Applications
SIX	Prof. Jeffrey T. Freymueller	GNSS methods for studying tectonic and hydrologic deformation on various timescales
SEVEN	Prof. Kefei Zhang	GNSS radio occultation - current status and the road ahead
EIGHT	Prof. Per Høeg	GNSS Reflection and Atmospheric Turbulence Measurement
NINE	Prof. Susan Skone	GNSS for Ionosphere and Space Weather Studies
TEN	Prof. Stelios P. Mertikas	Satellite Altimetry Calibration and Validation Techniques
ELEVEN	Prof. Wu Chen	GNSS Integrity Monitoring

*Language:* All lectures will be given in English.

**Organizing Committee**

*Director of Croucher Summer Course 2014:*

Dr. George Zhizhao Liu, Assistant Professor  
 Department of Land Surveying & Geo-Informatics  
 The Hong Kong Polytechnic University (PolyU)

*Co-Director of Croucher Summer Course 2014:*

Dr. Yang Gao, Professor  
 Department of Geomatics Engineering,  
 The University of Calgary

Prof. Xiaoli Ding  
 Chair Professor and Department Head  
 Department of Land Surveying & Geo-Informatics  
 The Hong Kong Polytechnic University (PolyU)

Prof. Wu Chen  
 Professor, Associate Head  
 Department of Land Surveying & Geo-Informatics  
 The Hong Kong Polytechnic University (PolyU)

All the information should be available @ the Croucher Summer Course website:

<http://projects.croucher.org/hk/summer-courses>

GEORGE ZHIZHAO LIU  
Secretary, IAG Sub-Commission 4.5

## Meetings Calendar

### 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>

### 3rd International Conference on the Use of Space Technology for Water Management

April 1- 4, 2014, Rabat, Morocco

Organized in cooperation with European Space Agency (ESA)

URL: <http://www.unoosa.org/oosa/en/SAP/act2014/Morocco/index.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/>

### SARAL International Science and Applications Meeting

April 22-24, 2014, Ahmedabad, India

URL: [http://smc.cnes.fr/SARAL/GP\\_actualite.htm](http://smc.cnes.fr/SARAL/GP_actualite.htm)

### European Geosciences Union General Assembly 2014

April 27 – May 2, 2014, Vienna, Austria

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

### GNSS : Principles, Augmentation and Evolutions of EGNOS

May 12- 23, 2014, Toulouse, France

URL: <http://www.formationcontinue-enac.fr/co/WORKGNSSSEXT.html>

### 30th IUGG Conference on Mathematical Geophysics

June 2- 6, 2014, Merida Yucatan, Mexico

URL: <http://eventos.iingen.unam.mx/IUGG2014/>

### EUREF Symposium 2014

June 4- 6, 2014, Vilnius, Lithuania

URL: [http://www.euref.eu/euref\\_symposia.html](http://www.euref.eu/euref_symposia.html)

### ICC&GIS 2014

June 15-21, 2014, Riviera, Bulgaria

5th Jubilee International Conference on Cartography & GIS

URL: [www.iccgis2014.cartography-gis.com](http://www.iccgis2014.cartography-gis.com)

#### IGS Workshop 2014

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

URL: <http://igs.cb.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>

#### International Symposium on Certification of GNSS Systems & Services

July 8 - 9, 2014, Dresden, Germany

URL: <http://www.dgon-cergal.org/>

#### GENAH 2014

July 22-25, 2014, Matsushima, Miyagi, Japan

International Symposium on Geodesy for Earthquake and Natural Hazards

URL: <http://genah2014.jpn.org/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/>

#### XXXI General Assembly and Scientific Symposium of the IUGG

August 16-23, 2014, Beijing, China

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

#### 3rd International School on "Least Squares Approach to Modelling the Geoid"

August 18-22, 2014, Stockholm, Sweden

URL: <http://www.kth.se/en/abe/inst/som/avdelningar/geo/geodesi/handelser-1.78120>

#### 18th WEGENER General Assembly: Measuring and Modelling our Dynamic Planet

September 1-4, 2014, Leeds, UK

URL: <http://see.leeds.ac.uk/wegener/>

#### Summer school on "GRACE/GRACE-FO applications for the terrestrial water cycle"

September 15-19, 2014, TBD, Germany

URL: <http://www.massentransporte.de/index.php?id=28>

#### Journées 2014 "Systemes de reference spatio-temporels"

September 22-24, 2014, Pulkovo Observatory, St. Petersburg, Russia

URL: <http://journées2014.gao.su/>

#### Eighth FORMOSAT-3/COSMIC Data Users' Workshop

September 30 – October 2, 2014, Boulder, USA

URL: [www.cosmic.ucar.edu/workshop\\_2014/](http://www.cosmic.ucar.edu/workshop_2014/)

#### INTERGEO / Geodätische Woche

October 7-9, 2014, Berlin, Germany

URL: <http://www.intergeo.de>

#### European VLBI Network (EVN) Symposium

October 7-10, 2014, Cagliari, Italy

URL: <http://www.evbi.org/meetings/meetings.html>

#### REFAG2014

October 13-17, 2014, Luxembourg

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

URL: <http://iag.uni.lu/index.php?id=189>

#### The Climate Symposium 2014

October 13-17, 2014, Darmstadt, Germany

URL: <http://www.theclimatesymposium2014.com>

#### SARAL/AltiKa Workshop

October 27, 2014, Konstanz, Germany

URL: <http://www.ostst-altimetry-2014.com/>

#### IDS Workshop

October 27-28, 2014, Konstanz, Germany

URL: <http://www.ostst-altimetry-2014.com/>

#### 19th International Workshop on Laser Ranging

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

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

#### Ocean Surface Topography Science Team (OSTST) meeting

October 28-31, 2014, Konstanz, Germany

URL: <http://www.ostst-altimetry-2014.com/>

#### Digital Earth Summit 2014

November 9-11, 2014, Nagoya, Japan

URL: <http://gis.chubu.ac.jp/summit2014/>

#### ISPRS Technical Commission I Symposium Sustaining Land Imaging: UAVs to Satellites

November 17-20, 2014, Denver, Colorado, USA

URL: <http://www.commission1.isprs.org/>

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

November 18-21, 2014, Madrid, Spain

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

#### 11th International Conference on Location-based Services

November 26-28, 2014, Vienna, Austria

URL: <http://www.lbs2014.org/>

#### AGU 2014 Fall Meeting

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

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

#### 18. Internationale Geodaetische Woche Obergurgl

February 8 – 14, 2015, Obergurgl, Austria

URL: <http://www.mplusm.at/ifg/>

#### 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/>