Contents

General Announcements ................................................................. 3
Summary of the IAG General Assembly, Prague, Czech Republic, June 22 – July 2, 2015 ........................................... 3
Meeting Announcements .................................................................. 4
4th IAG Symposium on Terrestrial Gravimetry: Static and Mobile Measurements ......................................................... 4
Meetings Calendar ............................................................................ 6
ESA/JRC International Summer School on GNSS 2015 .......................................................... 6
VI International Time Scale Algorithms Symposium and Tutorials .......................................................... 6
ION GNSS+ 2015 ............................................................................. 6
Third Space for Hydrology Workshop "Surface Water Storage and Runoff: Modeling, In-Situ data and Remote Sensing" .......................................................................................... 6
INTERGEO, Geodätische Woche ....................................................... 6
ICTRS 2015 .................................................................................. 6
GRACE Science Team Meeting ......................................................... 6
Wilhelm und Else Heraeus Autumn School .................................... 6
ISDE 2015 .................................................................................. 6
DORIS Analysis Working Group Meeting ..................................... 6
9th Coastal Altimetry Workshop ....................................................... 6
OSTST 2015 .................................................................................. 6
Earth Observation for Water Cycle Science 2015 ......................... 6
2015 ILRS Technical Workshop ....................................................... 6
COSPAR Capacity Building Workshop on Planetary Data Mission Analysis .................................................. 7
5th International Colloquium Scientific and Fundamental Aspects of the Galileo Programme ............................................. 7
10th Meeting of the International Committee on Global Navigation Satellite Systems (ICG) ................................. 7
2nd Symposium of COSPAR: Water and Life in the Universe ....... 7
EuroCARTO 2015 ........................................................................... 7
International Technical Symposium on Navigation and Timing ........... 7
VII SIRGAS School on Reference Systems .................................... 7
IS-GNSS 2015 ............................................................................. 7
Symposium SIRGAS 2015 ............................................................. 7
4th International VLBI Technology Workshop (IVTW) ...................... 7
MNT 2015 ................................................................................... 7
AGU 2015 Fall Meeting .................................................................. 7
United Nations International Meeting on Global Navigation Satellite Systems .................................................. 7
ION Precise Time and Time Interval Meeting (PTTI) ...................... 8
IGS Workshop ........................................................................... 8
9th IVS General Meeting ............................................................... 8
JISDM 2016 ................................................................................ 8
TGS-SMM 2016 ........................................................................... 8
EGU General Assembly 2016 ......................................................... 8
GEOProcessing 2016 .................................................................... 8
FIG Working Week 2016 ............................................................... 8
ESA Living Planet Symposium 2016 ............................................... 8
18th Geodynamics and Earth Tide Symposium 2016 .......................... 8
GAGER 2016 ............................................................................... 8
International Symposium on Geodesy and Geodynamics (ISGG2016) .................................................................................................................. 8
41st COSPAR Scientific Assembly ................................................. 9
AOGS 13th Annual Meeting ............................................................ 9
INTERGEO, Geodätische Woche .................................................... 9
AGU 2016 Fall Meeting ............................................................... 9
IAG / IASPEI Scientific Assembly .................................................... 9
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](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
Summary of the IAG General Assembly, Prague, Czech Republic, June 22 – July 2, 2015

The quadrennial General Assembly of the International Association of Geodesy (IAG) was held together with the 26th General Assembly of the International Union of Geodesy and Geophysics from June 22 to July 2 in Prague, Czech Republic. The following summarises the principal outcome of the scientific and administrative meetings. A detailed report will be given as usual in the Geodesist’s Handbook to be published in 2016 in the Journal of Geodesy together with the descriptions of all components in the new IAG structure 2015-2019.

More than 4000 participants registered for the IUGG General Assembly, about 500 of those as IAG associates. This is the largest number of participants since the General Assembly 1995 in Boulder, USA. The IAG organised 1 Union Symposium (of 11 in total), 3 Joint Symposia with other Associations (of 27 in total), and 8 IAG Symposia. IAG co-conveners were involved in all the other Union Symposia and in 10 other Joint Symposia. 545 presentations (of 5378 in total) were given in the IAG Symposia, and 65 (of 711 in total) in the IAG lead Joint Symposia, nearly half of those as posters.

The IAG Symposia were structured according to the four IAG Commissions and the three GGOS Themes; because of the large number of abstract submissions, the sessions dealing with the gravity field (IAG Commission 2) were split into the static and the time-variable gravity. The highlights were new techniques in the realisation of reference frames, new approaches for the solution of the geodetic boundary value problem and time dependent gravity field models, recent results of geodynamic studies, applications of geodetic positioning techniques (in particular GNSS) for interdisciplinary Earth observations, unification of physical height systems, geo-hazards monitoring, and latest results of sea-level modelling.

Aside from the scientific sessions there were many administrative meetings. The IAG Council, i.e. the representatives of the IUGG member countries, met twice and made some important decisions. The revised IAG Statutes and Bylaws were adopted; the result of the e-mail election of the new IAG officers 2015-2019 was noted; the IAG accounts 2010-2014 were audited and approved; the budget 2015-2018 was accepted; the next IAG Scientific Assembly was selected to be held in Kobe, Japan, from July 30 to August 4, 2017; and two IAG resolutions were passed (see below).

The IAG Executive Committee (EC) 2011-2015 met three times; the principal topics were the reports of the Commissions, the Inter-Commission Committee on Theory (ICCT), the Global Geodetic Observing System (GGOS), the IAG Services, the Communication and Outreach Branch (COB), and the Editors of the Journal of Geodesy (JoG) and the IAG Symposia Series. These reports are published in the IAG Reports 2015 (Travaux de l’AIG Vol. 39) and available at the IAG Homepage. The new ICCT President, GGOS Chair, and JoG Editor in Chief for the period 2015-2019 were appointed (see list below). The new EC 2015-2019 held its constituting meeting immediately after the General Assembly July 2, 2015. Principal topics were the new structure of the Commissions and the ICCT including the appointment of its Vice Presidents, and the appointments of the Editors of the IAG Symposia Series and the IAG Representatives to IAG, IUGG and external bodies. The publication of the Geodesist’s Handbook was discussed.

Four IAG Awards were presented at the General Assembly Opening Session: the Levallois Medal for distinguished service to the IAG and to the science of Geodesy in general to Reinhard Rummel, Germany (see IAG Newsletter July 2015), the Guy Bomford Prize for outstanding contributions to geodetic studies to Yoshiyuki Tanaka, Japan, and the Young Authors Awards 2013 to Krzysztof Sośnica, Switzerland, and 2014 to Alvaro Santamaria-Gómez, France.

Two Resolutions were approved by the IAG Council: The “IAG Resolution for the definition and realization of an international height reference system (IHRs)” resolves the vertical reference level as an equipotential surface of the Earth gravity field with the potential value \( W_0 = 62,636,853.4 \text{ m}^2 \text{s}^{-2} \), and the “IAG Resolution for the establishment of a global absolute gravity reference system” resolves to establish a gravity reference frame by globally distributed reference stations linked to the international comparisons of absolute gravimeters, and to initiate the replacement of the International Gravity Standardization Net 1971 (IGSN71) and the latest International Absolute Gravity Base Station Network by the new Global Absolute Gravity Reference System.

The new IAG officers elected by the Council or appointed by the Executive Committee are:

President: Harald Schuh (Germany)
Vice President: Zuheir Altamimi (France)
Secretary General: Hermann Drewes (Germany)
President of the COB: József Ádám (Hungary)
President of Commission 1: Geoffrey Blewitt (USA)
Vice-President of Commission 1: Johannes Böhm (Austria)
President of Commission 2: Roland Pail (Germany)
Vice-President of Commission 2: Shuanggen Jin (China)
President of Commission 3: Manabu Hashimoto (Japan)
Vice-President of Commission 3: Cheng-Li Huang (China)
President of Commission 4: Marcelo Santos (Canada)
Vice-President of Commission 1: Allison Kealy (Australia)
President of the ICCT: Pavel Novák (Czech Republic)
President of the GGOS: Hansjörg Kutterer (Germany)
Members at Large: Ludwig Combrinck (S. Africa)
Maria Cristina Pacino (Argentina)
Service Representatives: Riccardo Barzaghi (Italy)
Ruth Neilan (USA)
Axel Nothnagel (Germany)
Editor in Chief of the J. Geodesy: Jürgen Kusche (Germany)
Editor in Chief of IAG Symposia: Jeff Freymueller (USA)
Assistant Editor of IAG Symposia: Laura Sánchez (Germany)

HERMANN DREWES
IAG Secretary General

Meetings Announcements

4th IAG Symposium on Terrestrial Gravimetry: Static and Mobile Measurements
April 12-15, 2016, Saint Petersburg, Russia

You are invited to take part in the 4th IAG Symposium on Terrestrial Gravimetry: Static and Mobile Measurements to be held at the State Research Center of the Russian Federation – Concern CSRI Elektropribor, JSC, St. Petersburg, Russia on 12 - 15 April 2016.

The Symposium topics include:
- instrumentation and methods for absolute and relative measurement of gravity fields, static and mobile measurements and their application to shipborne, airborne platforms (planes, helicopters, airships) and other mobile platforms;
- absolute ballistic gravimeters (including those based on the use of cold atoms), relative gravimeters of all types including superconducting gravimeters;
- gravity gradiometers;
- new technologies, equipment and materials for development of all types of gravimeters;
- new results of measurement of gravity networks and the coverage of new regions;
- metrology issues in gravimetry, the results of the comparisons of absolute gravimeters, application of gravity measurements in metrology;
standardization and databases of absolute measurements of the gravity field;
gravitational experiments.

The following topics are especially welcome for presentation at the Symposium:
new technologies and applications of gravity measurements such as planetary absolute and relative gravimetry;
links between satellite and terrestrial or planetary gravity measurements;
possible applications of terrestrial gravimetry in combination with GPS/GLONASS technologies;
gravimetry applications in navigation.

The Symposium languages are English and Russian.
Simultaneous translation from Russian into English and from English into Russian is provided.

International Scientific Committee

Chairman - Academician of the Russian Academy of Sciences,
Prof. Vladimir Peshekhonov — Russia
Vice-chairman – Prof. Urs Marti — Switzerland
Members:
Prof. Matthias Becker — Germany
Prof. Sylvain Bonvalot — France
Prof. Vyacheslav Fateev — Russia
Prof. Rene Forsberg — Denmark
Prof. Olivier Francis — Luxembourg
Prof. Yoichi Fukuda — Japan
Dr. Iskander Gayazov — Russia
Dr. Alessandro Germak — Italy
Prof. Vyacheslav Koneshov — Russia
Dr. Jaakko Mäkinen — Finland
Dr. Maria Cristina Pacino — Argentina
Dr. Alexander Sokolov — Russia
Dr. Leonid Vitushkin — Russia
Dr. Hartmut Wziontek — Germany

Organizing Committee

Chairman: Dr. Alexander Sokolov — Russia
Vice-chairs: Dr. Leonid Vitushkin — Russia
Mrs. Margarita Grishina — Russia
Members:
Prof. Vyacheslav Koneshov — Russia
Mr. Anton Krasnov — Russia
Dr. Evgenii Krivtsov — Russia
Dr. Vladimir Lygin — Russia

Important Dates

1 September 2015 — deadline for abstract submission.
20 October 2015 — accepted papers listed on the Symposium website.
1 November 2015 — the Symposium preliminary program available on the website
25 December 2015 — deadline for submission of papers to be published in Symposium proceedings
By 20 March 2016 — online registration

Symposium Website

http://www.elektropribor.spb.ru/tgsmm2016/eindex

LEONID VITUSHKIN
Meetings Calendar

**ESA/JRC International Summer School on GNSS 2015**
August 31 – September 10, 2015, Barcelona, Spain
URL: [http://congrexprojects.com/2015-events/15m21/registration](http://congrexprojects.com/2015-events/15m21/registration)

**VI International Time Scale Algorithms Symposium and Tutorials**
September 9 – 11, 2015, Sèvres, France

**ION GNSS+ 2015**
September 14 – 18, 2015, Tampa, Florida, USA
URL: [http://www.ion.org/gnss/index.cfm](http://www.ion.org/gnss/index.cfm)

**Third Space for Hydrology Workshop "Surface Water Storage and Runoff: Modeling, In-Situ data and Remote Sensing"**
September 15 – 17, 2015, Frascati, Italy

**INTERGEO, Geodätische Woche**
September 15 – 17, 2015, Stuttgart, Germany
URL: [http://www.intergeo.de/](http://www.intergeo.de/)

**ICTRS 2015**
September 17 – 18, 2015, Rhodes, Greece
Fourth International (URSI) Conference on Telecommunications and Remote Sensing
URL: [http://www.ictrs.org](http://www.ictrs.org)

**GRACE Science Team Meeting**
September 21 – 23, 2015, Austin, Texas, USA
URL: [http://www.csr.utexas.edu/grace/GSTM/](http://www.csr.utexas.edu/grace/GSTM/)

**Wilhelm und Else Heraeus Autumn School**
October, 4-9 2015, Bad Honnef, Germany
Global gravity field modeling from Satellite-to-Satellite Tracking data
URL: [http://www.geoq.uni-hannover.de/autumnschool.html](http://www.geoq.uni-hannover.de/autumnschool.html)

**ISDE 2015**
October 5 – 9, 2015, Halifax, Nova Scotia, Canada
URL: [http://digitalearth2015.ca/](http://digitalearth2015.ca/)

**DORIS Analysis Working Group Meeting**
October 15 – 16, 2015, Greenbelt, Maryland, USA

**9th Coastal Altimetry Workshop**
October 18 – 19, 2015, Reston, Virginia, USA
URL: [https://joss.ucar.edu/meetings/2015/9th-coastal-altimetry-workshop](https://joss.ucar.edu/meetings/2015/9th-coastal-altimetry-workshop)

**OSTST 2015**
October 20 – 23, 2015, Reston, Virginia, USA
URL: [https://joss.ucar.edu/meetings/2015/ocean-surface-topography-science-team-meeting](https://joss.ucar.edu/meetings/2015/ocean-surface-topography-science-team-meeting)

**Earth Observation for Water Cycle Science 2015**
October 20 – 23, 2015, ESA-ESRIN, Frascati, Italy
2015 ILRS Technical Workshop
October 26 – 20, 2015, Matera, Italy
URL: http://ilrs.gsfc.nasa.gov/about/2015_ILRS_Technical_Workshop.html

COSPAR Capacity Building Workshop on Planetary Data Mission Analysis
October 26 – November 6, 2015, Guaratinguetá, Brazil
URL: http://cbw.cosparbrazil2015.org/

5th International Colloquium Scientific and Fundamental Aspects of the Galileo Programme
October 27 – 29, 2015, PTB Braunschweig, Germany
URL: http://congrexprojects.com/2015-events/15a08/introduction

10th Meeting of the International Committee on Global Navigation Satellite Systems (ICG)
November 1 – 6, 2015, Boulder, Colorado, USA
URL: http://www1.joss.ucar.edu/

2nd Symposium of COSPAR: Water and Life in the Universe
November 9 – 13, 2015, Foz do Iguacu, Brazil
URL: http://cosparbrazil2015.org/

EuroCarto 2015
November 10 – 12, 2015, Vienna, Austria
URL: http://eurocarto.org/

International Technical Symposium on Navigation and Timing
November 16 – 17, 2015, Toulouse, France

VII SIRGAS School on Reference Systems
November 16 – 17, 2015, Santo Domingo, Dominican Republic
URL: http://www.sirgas.org

IS-GNSS 2015
November 16 – 19, 2015, Kyoto, Japan
International Symposium on GNSS
URL: http://www.isgnss2015.org/

Symposium SIRGAS 2015
November 18 – 20, 2015, Santo Domingo, Dominican Republic
URL: http://www.sirgas.org

4th International VLBI Technology Workshop (IVTW)
November 23 – 26, 2015, Auckland, New Zealand
International Symposium on GNSS
URL: http://www.irasr.aut.ac.nz/conferences/4th-international-vlbi-technology-workshop-ivtw

MMT 2015
December 9 – 11, 2015, Sydney, Australia
The 9th International Symposium on Mobile Mapping Technology
URL: http://www.mmt2015.org/

AGU 2015 Fall Meeting
December 14 – 18, 2015, San Francisco, California, USA
URL: http://fallmeeting.agu.org/2015/
United Nations International Meeting on Global Navigation Satellite Systems
December 14 – 18, 2015, Vienna, Austria
URL: http://www.unoosa.org/oosa/events/data/2015/2015_united_nations_international_meeting_on_gnss.html

ION Precise Time and Time Interval Meeting (PTTI)
January 25 – 27, 2016, Monterey, California, USA
URL: http://www.ion.org/ptti/

IGS Workshop
February 15 – 19, 2016, Sydney, Australia
URL: http://kb.igs.org/hc/en-us/articles/205944657-IGS-Workshop-2016-Information

9th IGS General Meeting
March 13 – 17, 2016, Ekideni (Johannesburg), South Africa
URL: http://ivs2016.hartrao.ac.za/

JISDM 2016
March 30 – April 1, 2016, Vienna, Austria
3rd Joint International Symposium on Deformation Monitoring
URL: http://www.jisdm2016.org/

TG-SMM 2016
April 12 – 15, 2016, Saint Petersburg, Russia
4th IAG Symposium “Terrestrial gravimetry. Static and mobile measurements”
URL: http://www.elektropribor.spb.ru/tgsmm2016/cindex

EGU General Assembly 2016
April 17 – 22, 2016, Vienna, Austria
URL: http://www.egu2016.eu/

GEOProcessing 2016
April 24 – 28, 2016, Venice, Italy
URL: http://www.iaria.org/conferences2016/GEOProcessing16.html

FIG Working Week 2016
May 2 – 6, 2016, Christchurch, New Zealand
URL: http://www.fig.net/fig2016/

ESA Living Planet Symposium 2016
May 9 – 13, 2016, Prague, Czech Republic
URL: http://lps16.esa.int/

18th Geodynamics and Earth Tide Symposium 2016
June 5 – 9, 2016, Trieste, Italy
URL: http://www.lithoflex.org/g-et/

GAGER 2016
July 18 – 23, 2016, Wuhan, Hubei, China
Geodesy, Astronomy and Geophysics in Earth Rotation (GAGER2016) – A Joint IAU / IAG / IERS Symposium
URL: http://main.sgg.whu.edu.cn/gager2016/

International Symposium on Geodesy and Geodynamics (ISGG2016)
July 22 – 26, 2016, Tianjin, China
URL: http://isgg2016.csp.escience.cn
41st COSPAR Scientific Assembly
July 30 – August 7, 2016, Istanbul, Turkey
URL: http://www.cospar-assembly.org/

AOGS 13th Annual Meeting
July 31 – August 5, 2016, Beijing, China
URL: http://www.asiaoceania.org/aogs2016/

INTERGEO, Geodätische Woche
October 11 – 13, 2016, Hamburg, Germany
URL: http://www.intergeo.de/

AGU 2016 Fall Meeting
December 12 – 16, 2016, San Francisco, California, USA
URL: http://meetings.agu.org/upcoming-meetings/

IAG / IASPEI Scientific Assembly
July 30 – August 4, 2017, Kobe, Japan