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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). 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

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Books for review are the responsibility of:

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General Announcements

IAG Young Authors Award

The International Association of Geodesy (IAG) grants the Young Authors Award for important contributions of authors of 35 years of age or younger in the IAG Journal of Geodesy (JoG) (see http://www.iag-aig.org/index.php?tpl=text&id_c=13&id_t=108). Up to two awards are granted for each two-year period preceding a General Assembly or a Scientific Assembly. The next Scientific Assembly will be held in Potsdam, Germany, September 2013; therefore nominations are invited for publications in 2011 and 2012 (JoG volumes 85 and 86). At least three IAG Fellows or Associates may send a joint nomination by 1st of March 2013 to the IAG Secretary General (iag@dgfi.badw.de). Fellows are listed in the Geodesist's Handbook or online at http://iag.dgfi.badw.de/fileadmin/IAG-docs/Fellows_1991-2011.pdf; IAG Associates are all geodesists active in IAG (e.g. as an IAG officer or member, or by participation in an IAG General or Scientific Assembly).

HERMANN DREWES
IAG Secretary General

ILRS News

The International Laser Ranging Service, the Frascati National Laboratories of the INFN-LNF, and the Agenzia Spaziale Italiana are together organising an ILRS Technical Workshop with the theme "Satellite, Lunar, and Planetary Laser Ranging: Characterizing the Space Segment" at INFN in Frascati, Italy, November 5 - 9, 2012. Sessions will include results on existing array performance, Lunar ranging experience, satellite signatures, laboratory testing and designs of novel arrays and progress with in-space receivers, transponders and time-transfer experiments.

A special session on the ASI-INFN ETRUSCO Project of Technological Development of SLR Payloads for GNSS, focusing on the importance of the multiple GNSS constellations, will be held on November 7. The meeting will also include a tour of the INFN retroreflector test facilities.

More details on the program can be found at: http://www.lnf.infn.it/conference/laser2012/.

Communicated by:

DR GRAHAM APPLEBY
Chair ILRS Governing Board.

Invitation for proposals for changes to the IAG Statutes and Bylaws

Article 16 of IAG's Statutes specifies that the Association shall review its Statutes and Bylaws to ensure an up-to-date structure of its scientific organization every eight years. The last time such a review was initiated was about eight years ago under the presidency of Gerard Beutler. It is now therefore time that we again take a fresh look at our Statutes and Bylaws. To achieve this goal, a Review Committee (traditionally called the Cassinis Committee) was appointed in the fall of 2011 by the IAG Executive. The committee is chaired by Michael Sideris and includes as members Harald Schuh, Ruth Neilan and Yoichi Fukuda. A proposal with all suggested revisions will be made by the Cassinis Committee for consideration by the IAG Executive and possibly the Council at the 2013 Scientific Assembly. In this way, we are hoping to get the Council’s reaction and input to the proposed changes before these are finalized and approved at the next IUGG General Assembly in 2015.

With this announcement, the Cassinis Committee is inviting proposals for changes of any article of the Statutes and Bylaws. Proposals can be submitted through the IAG website Forum (www.iag-aig.org/proposals). The actual Statutes and By-laws can be found on the IAG website. All proposals submitted between March 1, 2012 and February 1, 2013 will be considered by the Cassinis Committee.

We are very much looking forward to receiving your contributions.

MICHAEL SIDERIS, HARALD SCHUH, RUTH NEILAN, YOICHI FUKUDA
Meeting Announcements

Meetings Calendar

14th IAIN Congress
October 1-3, 2012, Cairo, Egypt
14th International Congress for the International Association of Institutes of Navigation
URL: http://www.ainegypt.org/site/pages.php?ids=4

7th ABLOS Conference
October 3-5, 2012, Salle du Ponant, Monaco
URL: http://www.iao.int/mtg_docs/com_wg/ABLOS/ABLOS_Conf7/ABLOS_Conf7.htm

Geodätische Woche 2012
October 9-11, 2012, Hannover, Germany
URL: http://www.iapg.bv.tum.de/gw

European VLBI Network (EVN) Symposium
October 9-12, 2012, Bordeaux, France
URL: http://evn2012.obs.u-bordeaux1.fr/

International Symposium on Gravity, Geoid and Height Systems GGHS 2012
October 9-12, 2012, Venice, Italy
URL: http://www.gravityfield.org/

Workshop on Reflectometry using GNSS and Other Signals
October 10-11, 2012, Prudue University, West Lafayette, IN, USA
URL: http://www.gnssr2012.org/

GOCE Solid Earth Workshop
October 16-17, 2012, Enschede, The Netherlands
URL: http://www.itc.nl/gocesolidearth/

International VLBI Technology Workshop
October 22-24, 2012, Westford, Massachusetts, USA
URL: http://www.haystack.mit.edu/workshop/ivtw/index.html

25th CODATA General Assembly
October 26-27, 2012, Beijing, China
URL: http://www.codata.org

SIRGAS Meeting 2012
October 29-31, 2012, Concepción, Chile
URL: http://www.sirgas.org/index.php?id=193&L=2

Pan Ocean Remote Sensing Conference (PORSEC-2012)
November 5-9, 2012, Kochi, Kerala, India
URL: http://www.porsec2012.incois.gov.in/

Satellite, Lunar, and Planetary Laser Ranging: Characterizing the Space Segment
November 5-9, 2012, Frascati, Italy
URL: http://www.lnf.infn.it/conference/laser2012/
Seventh Meeting of the International Committee on Global Navigation Satellite Systems (ICG)
November 5-9, 2012, Beijing, China
URL: http://www.icg2012.cn/

Pan Ocean Remote Sensing Conference (PORSEC-2012)
November 5-9, 2012, Kochi, Kerala, India
URL: http://www.porsec2012.incois.gov.in/

ACM SIGSPATIAL GIS 2012
November 6-9, 2012, Redondo Beach, California, USA
URL: http://acmgis2012.cs.umd.edu/

Workshop “Geodäsie und Geophysik auf fliegenden Plattformen (insbes. auf HALO)"
November 8-9, 2012, Potsdam, Germany
URL: http://tpg.geo.tu-dresden.de/geohalo/

GNSS PhD Summit 2012
November 21-22, 2012, Munich, Germany
URL: http://ifen.bauv.unibw.de/snun/index.php?gnss-phd-summit

SOMAP 2012
November 22-23, 2012, Vienna, Austria
URL: http://somap.cartography.at/

AGU 2012 Fall Meeting
December 3-7, 2012, San Francisco, USA
URL: http://www.agu.org/meetings/

FIG Commission 3 Workshop and Annual Meeting 2012
December 10-14, 2012, Athens, Greece

17. Internationale Geodätische Woche 2013
February 17-23, 2013, Obergurgl, Austria
URL: http://www.mplusm.at/ifg/programm2013.htm

Munich Satellite Navigation Summit 2013
February 26-28, 2013, Munich, Germany
URL: http://www.munich-satellite-navigation-summit.org

Cryosat 3rd User Workshop
March 12-14, 2013, Dresden, Germany
URL: http://www.cryosat2013.org/

European Geosciences Union General Assembly 2013
April 7-12, 2013, Vienna, Austria
URL: http://www.egu.eu/meetings/meeting-overview.html

The European Navigation Conference ENC 2013
April 23-25, 2013, Vienna, Austria
URL: www.enc2013.org

International Symposium on Mobile Mapping Technology 2013
April 30 - May 2, 2013, Tainan, Taiwan
URL: http://conf.ncku.edu.tw/mmt2013/wm02.htm
TransNav 2013
June 19-21, 2013, Gdynia, Poland
URL: http://transnav2013.am.gdynia.pl

ICEO-SI 2013
June 23-25, 2013, Tainan City, Taiwan
URL: http://www.iceo-si2012.com/ (announcement)

Joint IAMAS-IACS Assembly
July 8-12, 2013, Davos, Switzerland
Davos Atmosphere and Cryosphere Assembly 2013, Ice & Air – Process Interactions
URL: www.daca-13.org

Joint IAHS-IAPSO-IASPEI Scientific Assembly
July 22-26, 2013, Gothenburg, Sweden
URL: http://www.iaspe.org/meetings/forthcoming.html#iaspei2013

26th International Cartographic Conference
August 25-30, 2013, Dresden, Germany
URL: http://www.icc2013.org/

12th IAGA Scientific Assembly
August 26-31, 2013, Mérida, Mexico
URL: www.iaga2013.org.mx

IAG Scientific Assembly
September 1-6, 2013, Potsdam, Germany
URL: http://www.iag2013.org

TGSMM 2013
September 11-20, 2013, St Petersburg, Russian Federation
IAG Third Symposium “Terrestrial Gravimetry: Static and Mobile Measurements - TGSMM-2013

AGU 2013 Fall Meeting
December 9-13, 2013, San Francisco, USA
URL: http://www.agu.org/cgi-bin/gycal?details=1&file=2013120900320182043&li
**Book Review**

*Martin Ekman: Where on Earth are We? Using the Sky for Mapping the Nordic Countries 1500-2000*

The author, Martin Ekman, is the head of the one-person Summer Institute for Historical Geophysics based on the Åland Islands in between Sweden and Finland. The Institute has over the years published many interesting publications, taking advantage of the geodetic and geophysical information present at these Islands, see [http://www.historicalgeophysics.ax](http://www.historicalgeophysics.ax).

The publication under review is of more general interest dealing with the mapping of the Nordic Countries over the last 500 years. However, the book includes a section dealing with the publication of the Islandic Viking Oddi Helgason, (c. 1150) who had compiled a table of the daily maximum altitude of the sun during a year. This table was used by the Viking sailors to determine the latitude.

The results of latitude determinations based on observation of the sun are collected in a table where the values are compared with modern results, showing typical differences of 30’ or 55 km.

The Danish astronomer (and geodesist) Tycho Brahe based on the island of Hven close to Copenhagen, made remarkable improvements (before the telescope) in instruments and methods. His results were precise to within 0.6’ or c. 1 km.

With the advent of the telescope and improved clocks results were improved in the following centuries, by for example Celsius. Also the Åland Islands became part of a triangulation chain between Finland and Sweden, 1748-52. But a problem still was the longitude determinations, which first were improved using massive clock transports between England, the Nordic Countries and Russia.

Progress was achieved due to the French latitude expedition in Lapland lead by P.L.M.Mopertuis around 1740, where the flattening of the Earth was determined, leading to the definition of the metre and the nautical mile.

The use of satellites and distant galaxies (where the Onsala observatory in Sweden has been a main actor) is well treated and leads up to a discussion of modern reference systems, such as the ITRF. The book contains many interesting Tables with comparisons of old and new positions, showing the great progress in position determinations since the Vikings.

The book is very interesting, not only for geophysicists in the Nordic Countries, but for everybody knowing (as they should) what went before GPS on your mobile phone. The book is very much recommended.

C.C. Tscherning
University of Copenhagen
Mass redistribution and transport in the Earth system, including the atmosphere, hydrosphere, lithosphere, cryosphere and the interior of the solid Earth affect the Earth's shape, gravity field and rotation (the three pillars of geodesy). Space geodetic techniques, including VLBI, SLR, DORIS, GNSS, InSAR, LiDAR, ICESat, satellite radar and laser altimetry, satellite gravimetry (particularly CHAMP/GRACE/GOCE) and GNSS Reflectometry & Radio Occultation, are capable of measuring and monitoring such small changes with high accuracy and spatial-temporal resolution. These provide a unique opportunity to investigate mass transport associated with geodynamics, natural hazards, and climate change, and to better understand these processes and their interaction within the Earth system.
The SGES2012 provided a forum for assessing current technological capabilities and presenting recent results of space geodetic observations and understanding the physical processes and coupling in the Earth system, and future impacts on climate. More information can be found at http://www.shao.ac.cn/meetings.

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