



International Association of Geodesy

Newsletter

February 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). 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

New Experimental Processing Centre from SIRGAS

The Experimental Processing Centres are candidates to become SIRGAS Local Processing Centres. During a specified time period, they align their processing strategies to those required by SIRGAS and demonstrate their capacity for timely and continuous delivery of weekly solutions. Escuela de Topografía, Catastro y Geodesia (ETCG) from Universidad Nacional, Costa Rica is working a New Experimental Processing Centre from SIRGAS. We start processing week 1721 and we are working with 45 SIRGAS stations. Our Centre is the first centre of this type in the Central America and Caribbean region. More details can be found at www.sirgas.org.

JORGE MOYA ZAMORA

GIM International Interviews Reiner Rummel

Durk Haarsma, publishing director of *GIM International* has done an excellent interview with Reiner Rummel titled "*Space Geodesy Pioneer*". This interview appears in the February 2013 Issue of *GIM International* and also online at http://www.gim-international.com/issues/articles/id1963-Space_Geodesy_Pioneer.html.

IAG COB

Meeting Announcements

IAG Scientific Assembly 2013

Themes as well as detailed description of themes of the IAG Scientific Assembly 2013 are available from the webpage http://www.iag2013.org/IAG_2013/Themes.html.

Deadline for abstract submission is **April 21, 2013**. For technical instructions on how to prepare your abstracts and for further conference information, please visit our homepage <http://www.iag2013.org>.

All abstracts accepted and presented at the Assembly (oral or poster) may be submitted as papers for publication in the peer-reviewed IAG Symposia Series at Springer Publisher within one month after the Assembly.

Please note: There is an abstract fee of EUR 40 for each submitted abstract. The fee of the first abstract will be credited against the registration fee when you register (on-line or on-site). Fees for additional abstracts will not be refunded.

IAG 2013 will offer you an interesting and comprehensive scientific program together with a variety of unique cultural events.

IAG 2013 LOC

EUREF Symposium 2013

29-31 May 2013, Budapest, Hungary

EUREF symposiums are organized on annual basis to provide a forum, where the National Mapping and Cartographic Agencies (NMCAs) and university research groups are presenting and discussing activities covering the development of the basic geodetic networks and the related services.

The EUREF2013 Symposium will be held in Budapest, Hungary 29-31 May, 2013. The symposium is organised by the Institute of Geodesy, Cartography and Remote Sensing (FOMI) and will be hosted by the Ministry of Rural Development.

The scientific programme will cover the following main topics:

- GNSS now – bigger, better, faster

- GNSS for Geosciences
- ETRS89: present and future
- [Development of ETRS89 and EVRS for Geo-information Applications](#)
- Height and Gravity
- National Reports

The website of the symposium euref2013.fomi.hu is open and provides detailed information on the venue, the scientific and social program. The deadline for registration is 30 April, abstracts are accepted by 16 April, 2013.

AMBRUS KENYERES

The VIII Hotine-Marussi Symposium

Dear Colleagues and Friends,

It is both our privilege and pleasure to invite you to the *VIII Hotine-Marussi Symposium*, which will be held at the *Faculty of Engineering of the University of Rome "La Sapienza"*, Italy on June 17-21, 2013, under the scientific coordination of the [Intercommission Committee on Theory \(ICCT\)](#) of the International Association of Geodesy (IAG).

The main goals of the Symposium are aligned with the objectives of the ICCT:

- advances in theoretical geodesy
- developments in geodetic modelling and data processing in the light of the recent advances of the geodetic observing systems
- connections and contribution exchanges between geodesy and other Earth sciences

In particular, *all the topics regarding the activities of the [ICCT Study Groups](#) are of interest* and related papers are strongly encouraged.

Further, also papers concerning other topics related to the possible interaction and mutual benefits between geodetic theory and methodology and other initiatives/projects involving Earth sciences (for example the [Group on Earth Observation](#)) are welcome.

In this respect, it has also to be recalled that 2013 will be the special year for the [Mathematics of Planet Earth](#).

Venue

The Symposium will be held at the Faculty of Engineering of the Sapienza University of Rome, Italy, in the ancient chiostrò of the Basilica of S. Pietro in Vincoli, where the worldwide known Michelangelo's statue *Moses* is placed. The Symposium location is downtown Rome, at walking distance from the Colosseo, Fori Imperiali and many other famous archaeological sites and monuments.

Please, mind that June is a high-season tourist period in Rome, so that *an early registration and accomodation booking is highly recommended*.

Abstracts submission and presentations

Abstracts should be prepared according to the procedure described below.

Deadline for submission is February 28, 2013. Both the guidelines and the e-mail address are available on the [Hotine-Marussi Symposium 2013](#) website.

Each abstract will be reviewed by the Scientific Committee and its eventual *acceptance will be notified by e-mail to the Corresponding Author by March 31, 2013*.

Upon abstract submission, the Corresponding Author will need to indicate *the preference for oral or poster presentation*. However, the final decision for the presentation form will be taken by the Scientific Committee during the abstract review.

Proceedings

Symposium proceedings will be published by *Springer* as a volume of the official [IAG Symposia Series](#).

The volume is *included in the registration fee*.

Manuscripts for possible publication in the proceedings have to be submitted for peer-review through the [IAG Symposia Editorial Manager](#) following the INSTRUCTIONS FOR AUTHORS supplied therein.

Deadline for submission is July 31, 2013.

How to submit an abstract

- Register to the VIII Hotine-Marussi symposium using the [Registration](#) form
- With your *User name* and *Password* login into your private user account using the *Login form*
- Abstract submission form will be available in *User menu* (bottom left part of the web page)
- Please, remember that *all form fields have to be filled in order to complete the abstract submission*
- After submission, you will get an email message with all details about your abstract

In case of any error in the submission or for any problem, please do not hesitate to [Contact Us](#)

Registration fees

Three kinds of registration fees are distinguished:

Regular registration

- No Members: 450 Euros
- IAG Members: 400 Euros

Student registration (confirmation of student status by supervisor required)

- No Members: 250 Euros
- IAG Students: 200 Euros

An additional 100 Euros fee will be charged for late registration (*after April 15, 2013*).

These fees include:

- Symposium proceedings published by Springer as a volume of the official IAG series
- Coffee breaks
- Rome tour
- Social dinner

One-day registration (without social events and proceedings):

- Regular: 100 Euros
- Students: 75 Euros

The *registration fees* can be paid by bank transfer (before the event) or by cash at the Symposium registration desk.

Social programme

The scientific programme will be complemented with a social one, including a tour in Rome, a social dinner and a special session at the [Accademia dei Lincei](#) (the oldest Scientific Academy in the world, established in 1603 by Federico Cesi).

Scientific Committee

N. Sneeuw, P. Novak, F. Sansò, M. Crespi, T. van Dam, U. Marti R. Gross, D. Brzezinska, H. Kutterer, W. Kosek, M. Schmidt, C. Gerlach, T. Hobiger, F. Seitz, M. Weigelt, A. Jäggi, R. Čunderlík, K. Mikula, S. Jin, A. Dermanis

Local Organizing Committee

M. Crespi, E. Benedetti, M. Branzanti, P. Capaldo, G. Colosimo, N. Dore, F. Fratarcangeli, A. Mazzoni, A. Nascetti, J. Patruno, F. Pieralice

We look forward to welcome you in Rome!

N. SNEEUW, P. NOVAK, F. SANSÒ, M. CRESPI

ESA International Summerschool on GNSS 2013, JRC Summerschool on GNSS

ESA International Summerschool on GNSS 2013, in conjunction with the JRC SUMMERSCHOOL ON GNSS in cooperation with Stanford University Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), Toulouse Graz University of Technology University FAF Munich, supported by the Swiss Space Office (SSO) and the Swiss Space Center (SSC) at Schatzalp Snow & Mountain Resort, Davos, Switzerland
15-25 July 2013

It is the objective of this Summer School to provide the attendees with a comprehensive overview on satellite navigation, starting from the GNSS system, its signals, the processing of the observations in a receiver and finally determining the position-navigation-time (PNT) solution. Many lab work will be carried out to get attendees really "hands-on". Main emphasis will be put on the development of a group project using innovative ideas and covering all aspects from the idea, business plan, technical realisation till the marketing of the product or the service.

The program is open to graduate students (with a first university degree), Ph.D. candidates, early-stage researchers and young professional willing to broaden their knowledge. International renowned scientists and specialists will give the lectures as well as the practical exercises and lab work.

The following participants can register for the ESA Summer School:

- Graduate students (more than 3 years studies)
- PhD students and postdoctoral researchers (< 35 years)
- Young engineers and professionals from industry and agencies (< 35 years)

The number of participants is limited to 50 - early registration (reduced rate) is recommended (first come - first serve).

For more information on the detailed programme and to register for the ESA Summer School, please go to <http://www.congrexprojects.com/13m07>.

LAURA DELETANT
ESA

Meetings Calendar

EGU-IVS Training School for the Next Generation Geodetic and Astrometric VLBI

March 2-5, 2013, Helsinki, Finland

URL: http://www.evga.org/vlbi_school.html

21st European VLBI for Geodesy and Astrometry (EVGA) Working Meeting

March 6-8, 2013, Helsinki, Finland

URL: <http://ivscc.gsfc.nasa.gov/pipermail/ivsmail/2012/001311.html>

Cryosat 3rd User Workshop

March 12-14, 2013, Dresden, Germany

URL: <http://www.cryosat2013.org/>

50 Jahre Gletscherforschung - Symposium der Kommission für Erdmessung und Glaziologie der BAdW

March 14-15, 2013, Munich, Germany

URL: <http://www.glaziologie.de/Symposium2013/>

IDS AWG Meeting

April 4-5, 2013, Toulouse, France

URL: <http://ids-doris.org/>

European Geosciences Union General Assembly 2013

April 7-12, 2013, Vienna, Austria

URL: <http://www.egu.eu/meetings/meeting-overview.html>

ETS 2013

April 15-19, 2013, Warsaw, Poland

17th International Symposium on Earth Tides „Understand the Earth”

URL: <http://www.cgs.wat.edu.pl/ETS2013/>

7th GNSS Vulnerabilities and Solutions Conference

April 18-20, 2013, Baska, Krk Island, Croatia

URL: <http://www.rin.org.uk/Events.aspx?ID=110&SectionID=23&ItemID=2384>

The European Navigation Conference ENC 2013

April 23-25, 2013, Vienna, Austria

URL: www.enc2013.org

Eurisy - GEONetCab workshop

Environment and risk management: the added value of innovative satellite applications

April 23, 2013, Brussels, Belgium

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

International Symposium on Mobile Mapping Technology 2013

April 30 - May 2, 2013, Tainan, Taiwan

URL: <http://conf.ncku.edu.tw/mmt2013/wm02.htm>

Seventh IVS Technical Operations Workshop

May 6-9, 2013, Westford, MA, USA

FIG Working Week 2013

May 6-10, 2013, Abuja, Nigeria

URL: <http://www.fig.net/fig2013/>

IERS Workshop on Local Ties and Co-locations

May 21-22, 2013, Paris, France

EUREF Symposium 2013

May 29-31, 2013, Budapest, Hungary

URL: <http://euref2013.fomi.hu/>

5th International Conference on Spacecraft Formation Flying Missions and Technologies (SFFMT)

May 29-31, 2013, Munich, Germany

URL: <http://www.sffmt2013.org/>

International Symposium: Reconciling Observations and Models of Elastic and Viscoelastic Deformation due to Ice Mass Change

May 30 – June 2, 2013, Ilulissat, Greenland

URL: <http://www.dtu.dk/subsites/iag.aspx>

EOGC 2013

June 5-7, 2013, Toronto, Canada

International Conference on Earth Observation for Global Changes

URL: <http://eogc2013.blog.ryerson.ca/>

SGEM 2013

June 16-22, 2013, Albena, Bulgaria

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

VIII Hotine-Marussi Symposium

June 17-21, 2013, Rome, Italy

URL: <http://w3.dicea.uniroma1.it/hotline-marussi-2013/>

Munich Satellite Navigation Summit 2013

June 18-20, 2013, Munich, Germany

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

TransNav 2013

June 19-21, 2013, Gdynia, Poland

URL: <http://transnav2013.am.gdynia.pl>

ICEO-SI 2013

June 23-25, 2013, Tainan City, Taiwan

International Conference on Earth Observations and Societal Impacts

URL: <http://2013.iceo-si.org.tw/>

IRI-2013 Workshop "IRI and GNSS"

June 24-28, 2013, Olsztyn, Poland

URL: http://www.uwm.edu.pl/kaig/iri_workshop_2013/

AOGS2013

June 24-28, 2013, Brisbane, Australia

URL: <http://www.asiaoceania.org/aogs2013/>

International Symposium on Planetary Sciences (IAPS2013)

July 1-4, 2013, Shanghai, China

URL: <http://202.127.29.4/meetings/iaps2013/>

GI Forum 2013 – Creating the GISociety

July 2-5, 2013, Salzburg, Austria

URL: www.daca-13.org

2013 Beacon Satellite Symposium

July 8-12, 2013, Bath, UK

URL: <http://people.bath.ac.uk/ee3jarr/beaconsatellite2013/>

Joint IAMAS-IACS Assembly

July 8-12, 2013, Davos, Switzerland

Davos Atmosphere and Cryosphere Assembly 2013, Ice & Air – Process Interactions

URL: www.gi-forum.org

ESA International Summerschool on GNSS 2013

July 15-25, 2013, Davos, Switzerland

URL: <http://www.congrexprojects.com/13m07>

Joint IAHS-IAPSO-IASPEI Scientific Assembly

July 22-26, 2013, Gothenburg, Sweden

URL: <http://www.iaspei.org/meetings/forthcoming.html#iaspei2013>

26th International Cartographic Conference

August 25-30, 2013, Dresden, Germany

URL: <http://www.icc2013.org/>

ISDE 2013

August 26-29, 2013, Kuching, Sarawak, Malaysia

8th International Symposium on Digital Earth 2013

URL: <http://isde2013.utm.my/>

12th IAGA Scientific Assembly

August 26-31, 2013, Mérida, Mexico

URL: www.iaga2013.org.mx

IC-MSQUARE 2013

September 1-5, 2013, Prague, Czech Republic

2nd International Conference on Mathematical Modeling in Physical Sciences

URL: <http://www.icmsquare.net>

IAG Scientific Assembly

September 1-6, 2013, Potsdam, Germany

URL: <http://www.iag2013.org>

2nd Joint International Symposium on Deformation Monitoring (JISDM)

September 9-11, 2013, Nottingham, UK

URL: www.nottingham.ac.uk/ngi/documents/events-pdfs/jisd2013.pdf

ESA Living Planet Symposium 2013

September 9-13, 2013, Edinburgh, UK

URL: <http://www.livingplanet2013.org/>

TGSMM 2013

September 11-20, 2013, St Petersburg, Russian Federation

IAG Third Symposium "Terrestrial Gravimetry: Static and Mobile Measurements - TGSMM-2013

Scientific developments from highly accurate space-time reference systems

September 16-18, 2013, Observatoire de Paris, Paris, France

URL: <http://synte.obspm.fr/jsr/journees2013/>

ION GNSS 2013

September 16-20, 2013, Nashville, TN, USA

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

Statusseminar der DFG-Forschergruppe Referenzsysteme (FOR1503)

September 19-20, 2013, Berlin, Germany

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

Geodätische Woche and INTERGEO

October 8-10, 2013, Essen, Germany

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

18th International Workshop on Laser Ranging

November 11-15, 2013, Fujiyoshida, Japan

URL: <http://geo.science.hit-u.ac.jp/lw18>

AGU 2013 Fall Meeting

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

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

17. Internationaler Ingenieurvermessungskurs

January 14-17, 2014, Zurich, Switzerland

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

40th COSPAR Scientific Assembly

August 2-10, 2014, Moscow, Russia

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

AGU 2014 Fall Meeting

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

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

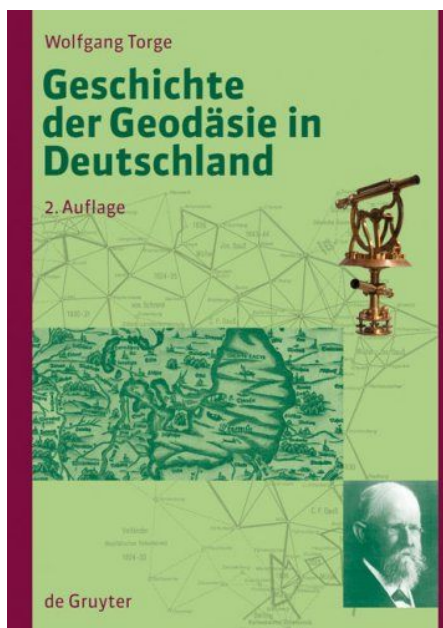
XXVI IUGG General Assembly

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

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

Book Review

Wolfgang Torge: *Geschichte der Geodäsie in Deutschland*



Title: Geschichte der Geodäsie in Deutschland, second revised edition
Author: Wolfgang Torge
Publisher: de Gruyter
ISBN: 978-3-11-095318-3
Year: 2009
Price: 134.95 €/ \$189
Details: Hardcover, xi, 389 pages
Other: available also as eBook or Print/eBook

This year, at its Scientific Assembly in Potsdam in September, the International Association of Geodesy (IAG) will celebrate its 150th anniversary. There is no better way to prepare for this historical event but to read Torge's book on the history of geodesy in Germany.

The book is written in German language. Probably, because it is focussed on the developments in Germany, it would not make sense to publish a version in English. Correctly, the title of the book is "Geschichte der Geodäsie in Deutschland" and not "of Germany", because until 1871 Germany, as a nation did not exist. Germany consisted of a conglomerate of states, continuously changing in number, size, alliance and influence. Thus, the challenge of this book is, to collect and select the most relevant facts of German geodetic history in the various regions and at the same time to keep it interesting for the reader, despite the enormous amount of material.

The content is organized chronologically. Throughout, the developments in Germany are nicely placed in a historical context. The author starts with a short account of geodesy's ancient roots, followed by the developments in the middle age and early modern times. This part includes also first geodetic activities in Germany. With the time of absolutism the important influence of French geodesy on the developments in

Germany starts. Like much earlier in France and England this goes in parallel with the foundation of academies of science in several German states. Even more important are the developments during and after Napoleon's time. Several arc measurements and regional triangulations were initiated. This led to the first peak of geodesy in Germany. It is associated with great names such as Benzenberg, Bessel, Gauss, Olbers, Schumacher, Soldner, Zach and several others. As important as their actual work in the field were their contributions to the theoretical foundations of geodesy, dealing, for example, with the effect of the gravity field on the figure of the earth, numerical algorithms for the computation of triangulation networks on curved surfaces and the adjustment of measurements. It follows the period that ultimately resulted in general Baeyer's "Mitteleuropäische Gradmessung". There were the first cadastral surveys, levelling networks were added to the geodetic methods, important geodetic instruments were developed, education in surveying started as well as geodesy as part of the curriculum of the newly founded polytechnical schools and the first geodesy books were published in German language. All this helped to prepare the ground for Baeyer's initiative which led to his proposal (Denkschrift) "Grösse und Figur der Erde" in 1861, his first report to the Prussian government about the state-of-the-art of his initiative in 1862 and the first assembly in 1864. It follows a summary of the successful period under Helmert, the foundation of the Geodetic Institute in Potsdam and his application of the geodetic work to earth sciences. The contribution of Helmert's most prominent contemporaries is summarized, such as Listing, Bruns or Schreiber. The following chapters are devoted to the development of geodesy in Prussia under Oscar Schreiber, and the official geodetic work in the South of Germany. The book also includes the difficult period after world war I and II, the consequences of the division of Germany and the more recent developments after Germany's reunification.

This is an excellent book and it is of great historical value. As to be expected from Wolfgang Torge, the book is an accurate, thorough and comprehensive analysis of the history of geodesy in Germany. About 600 references went into this book. It contains 296 well selected figures. The book is very well written and a pleasure to read. On a few places the enormous amount of material that went into this book makes it somewhat lengthy. On the other hand, these details are essential; they make this book complete and a lasting source for further research. Everybody interested in the history of geodesy will read this book with great benefit and pleasure. It can be recommended without any hesitation.

REINER RUMMEL