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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

### **Call for Members of IAG Commission 3**

Dear Member of Commission 3 on Earth Rotation and Geodynamics,

IAG is asking us to write a report for the IAG Travaux. The sub-commission Presidents have already sent material to me. Additionally, if you want to contribute to this report, please send me information that I can include in it. The deadline for me to send the report is the end of June.

Thank you very much in advance,

Veronique Dehant  
President of Commission 3 on Earth Rotation and Geodynamics  
[v.dehant@oma.be](mailto:v.dehant@oma.be)

### **FIG Article of the Month – June 2005**

On the FIG web site each month a paper called the *Article of the Month* is published. This is a high-level paper focusing on interesting topics to all surveyors. It can be picked up from an FIG conference or another event. The Article of the Month in June is written by Richard Wonnacott from South Africa. His paper "*AFREF - Background and Progress towards a Unified Reference System for Africa*" was been prepared for and presented at the FIG Working Week / GSDI-8 Conference in Cairo, Egypt, April 16-21, 2005. You can get the article from: [http://www.fig.net/pub/monthly\\_articles/june\\_2005/wonnacott\\_june\\_2005.htm](http://www.fig.net/pub/monthly_articles/june_2005/wonnacott_june_2005.htm)

## Meeting Announcements

### **Dynamic Planet 2005**



#### **"Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools"**

A Joint Assembly of the IAG, IAPSO and IABO  
22 - 26 August 2005, Cairns, Australia

Scientists from all countries are invited to participate in this unique conference – a joint assembly of the International Association of Geodesy (IAG), International Association for Physical Sciences of the Oceans (IAPSO), and the International Association for Biological Oceanography (IBO). For further information, please visit the Dynamic Planet website <http://www.dynamicplanet2005.com>.

### **IAG Sponsored Meetings**

#### **Dynamic Planet 2005**

*"Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools"*  
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#### **7th conference on Optical 3-D Measurement Techniques**

*3-5 October 2005, Vienna, Austria*

The 7th conference on "Optical 3-D Measurement Techniques" will be held from October 3-5, 2005 in Vienna, Austria and is co-sponsored by the ISPRS Commission V, the FIG Commission 5 and 6, and the IAG Sub-commission 4.2. The conference website is: <http://info.tuwien.ac.at/ingeo/optical3d/o3d.htm>. The first announcement in pdf format can be downloaded from the conference website at: <http://info.tuwien.ac.at/ingeo/optical3d/o3d1st.pdf>.

#### **Summer School on Microgravimetric methods: static and dynamic aspects**

*23-28 October, 2005, Lanzarote, Canaries*

The International Gravimetric Bureau (BGI), the International Center for Earth Tides (ICET) and the Instituto de Astronomia y Geodesia (IAG) are pleased to announce their joint Summer School on Microgravimetric Methods: static and dynamic aspects. The request for information email is to: [bernard.langellier@cnes.fr](mailto:bernard.langellier@cnes.fr). Please also visit the BGI website for further details: <http://bgi.cnes.fr>

#### **VI Hotine-Marussi Symposium of Theoretical and Computational Geodesy: Challenge and Role of Modern Geodesy**

*29 May - 2 June 2006, Wuhan University, PR China*

The symposium will be held at Wuhan University, PR China, 29 May - 2 June 2006. More information will be circulated as soon as available and can be found at the website: [http://www.sgg.whu.edu.cn/icct\\_hm.html](http://www.sgg.whu.edu.cn/icct_hm.html)

### **IGAG Related Meetings**

#### **French speaking school on the geoid**

*27 June - 1 July 2005, Marne la Vallée CEDEX, France*

Institut Géographique National (France), Bureau Gravimétrique International, and Observatoire Royal de Belgique sponsors a French speaking school on the geoid. For further information please visit the IAG webpage <http://www.iag-aig.org>.

#### **IAMAS 2005**

*2-11 August 2005, Beijing, China*

The International Association of Meteorology and Atmospheric Sciences (IAMAS), will hold its biennial Scientific Assembly in Beijing, China from 2-11 August 2005. The theme of the conference is The Fascinating Atmosphere: Changeable and Changing, and will cover all areas of meteorology and atmospheric sciences, including dynamics, radiation, chemistry, electricity, clouds and precipitation, and climate variability and change. Further details can be found on the IAMAS 2005 web site <http://www.iamas2005.com>.

#### **12th International Symposium on Deformation Measurement**

*12-15 September 2005, Qingdao, China*

You are cordially invited to the 12th International Symposium on Deformation Measurements organized by Commission 6 of the International Federation of Surveyors (FIG) to be held in Qingdao, China, 12-15 September 2005. Please visit the conference website for further information: <http://www.fig.net/isdm12>.

#### **4th Congress of the Balkan Geophysical Society**

*9-12 October 2005, Bucharest, Romania*

The International Conference and Exhibition "Geophysics Without Frontiers" is organized and hosted by the Romanian Society of Geophysics in cooperation with EAGE, SEG, EGU and AGU, under the auspices of the IUGG. The Congress focuses the attention of the whole community of geophysicists on Balkans. The conference webpage is [www.bgs-bucharest2005.ro](http://www.bgs-bucharest2005.ro).

### **The International Symposium on GPS/GNSS 2005 (GNSS2005)**

8-10 December 2005, Hong Kong

The International Symposium on GPS/GNSS 2005 (GNSS2005) will take place in Hong Kong, 8-10 December 2005. The symposium will feature a session of presentations from the Civil GPS Service Interface Committee (CGSIC). For details, please visit the following URL: <http://www.lsgj.polyu.edu.hk/GNSS2005/>.

### **IAG Sister Societies' General Assemblies**

#### **ICC2005 Conference**

9-16 July 2005, A Coruña, Spain

The XXII International Cartographic Conference (ICC) is the most important event in the International Cartographic Association (ICA) calendar. Please visit <http://www.icc2005.org> for details.

#### **ISPRS Workshop Laser scanning 2005**

12-14 September 2005, Enschede, the Netherlands

The workshop, held at the ITC in Enschede, will bring together an interdisciplinary group of researchers, system developers, data providers and end users to discuss and demonstrate recent developments in laser scanner data processing, the potential of the technique and future trends in sensorics and data processing. Further information on the workshop can be obtained from <http://www.itc.nl/isprswgIII-3/laserscanning2005/>.

#### **4th FIG Regional Conference for Latin America and the Caribbean - CANCELLED**

26-29 September 2005, Havana, Cuba

The 4<sup>th</sup> FIG Regional Conference is cancelled. Reference: FIG e-Newsletter, June 2005, [www.fig.net](http://www.fig.net).

#### **INTERGEO 2005**

4-6, October 2005, Düsseldorf, Germany

Intergeo 2005. At the Conference FIG Forum will be organised. Website: [www.intergeo.de](http://www.intergeo.de)

## **Meeting Report**

### ***Report on the 15th Symposium of the IAG Reference Frame Sub-commission for Europe (EUREF)***

By invitation of the Austrian colleagues from the Austrian Academy of Sciences Headquarters Vienna, the Space Research Institute Graz and the Federal Office of Metrology and Surveying (BEV) the symposium was held from June 1-4, 2005, the EUREF Sub-commission held its 15th Symposium in Vienna/Austria. The EUREF Technical Working Group (TWG) met as usual the day before the beginning of the symposium, i.e. on May 31.

The symposium took place in the splendid audience hall of the Austrian Academy of Sciences. Altogether 132 geodesists representing 27 European countries met for this 2005 annual EUREF symposium.

The session was opened by the chairman of the Local Organizing Committee, P. Pesec. Welcome addresses were given by representatives of the host organisations and IAG, Z. Altamimi, President of IAG Sub-Commission on Regional Reference Frames.

The scientific programme was subdivided into 7 sessions for oral presentations. The sessions were dedicated as usual to the topics

1. Activities of the EUREF Technical Working Group (TWG) / Status of the EUREF Permanent Network (EPN) (5 reports)
2. EUREF Permanent Network (EPN): analysis and projects (7)
3. EPN-related applications (10)
4. Implementation of ETRS89 / ETRF Improvements (7)
5. European Vertical Reference System (EVRS) / Height Systems (6)

6. National Reports (24)
7. Other EUREF-related contributions (3).

Further 16 posters were presented. As successfully practised since several years, a special session was held by the Expert Group on Geodesy (ExG-G) of EuroGeographics.

The arrangement of the oral presentations is determined by the following considerations:

- The main mission of EUREF, i.e. the establishment and maintenance of the geodetic reference frames in Europe, comprising the improvements and maintenance of ETRS89 and its realization, the EPN and the European vertical system. An interesting note *Can EU law benefit Geodesy?* in this context was given by C. Calvert.
- Applications of EUREF outside the geodetic community such as meteorological applications as well as the cooperation between geodesy and meteorology in general. In this context the invited paper *EGVAP Meteorology and geodesy synergy* by E. Vedel has to be mentioned.
- Implications of EUREF especially related with the community involved in geospatial information. In this context the EuroGeographics, Geo-Rail, EuroBoundaries projects and the INSPIRE initiative of the European Commission are to be emphasized.
- The exchange of ideas with the user community, ranging from surveying professionals to equipment manufacturers.
- The presentation of the National Reports as demonstration of the achievements on internal level and future plans.

Basing on the presentations and the discussions during the symposium, the Sub-commission adopted six resolutions (cf. annex).

The scientific sessions were accompanied by a social programme with impressive arrangements of Austrian hospitality and Viennese culture.

A detailed overview on this symposium (programme, participants, ppt-files of presentations, photo gallery etc.) can be found in the EUREF homepage – see symposia. There also the previous symposia are documented. Moreover the EUREF homepage comprises manifold other information on EUREF such as TWG, ETRS89, EPN, campaigns, EVRS, ECRS, documentation, EUREF mail and links.

By courtesy of the Latvian colleagues the EUREF Sub-commission is invited to hold its 2006 symposium in Riga.

J. A. TORRES, H. HORNIK

## ***Resolutions – EUREF 2005***

### **Resolution 1**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*considering the importance of*

- using individual antenna calibration models for the EUREF Permanent GPS Network (EPN) and EUREF campaigns
- the improvement in results when absolute calibrations are employed
- having consistent standards in these matters

*invites* the International GPS Service (IGS) and EPN to consider the timely introduction of standards for these techniques

### **Resolution 2**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*recognising* the need for reliable and timely Global Navigation Satellite System (GNSS) data flow

*and acknowledging* recent efforts to improve the EPN data flow

*however noting* that reliability and latency issues still exist in the data flow

*urges* EPN station managers to improve the latency and reliability of their data uploads in accordance with EPN guidelines.

### **Resolution 3**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*acknowledging* the efforts of the European National Mapping Agencies (NMAs) in contributing to the Unified European Levelling Network (UELN) and European Combined Geodetic Network (ECGN) projects for the current European Vertical Reference System (EVRS) realisation

*and noting* the need for a new realisation of EVRS

*asks*

- NMAs to provide any new levelling data for UELN 2006 and information on national height reference and ECGN points for the new EVRS realisation
- owners of absolute gravimeters involved in ECGN to provide the meta data information of their gravity measurements to the ECGN working group and to make available the campaign data files from their own data base.

### **Resolution 4**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*noting* that Networked Transport of RTCM via Internet Protocol (NTRIP) recently became an RTCM standard for streaming GNSS data in real-time over IP networks and that NTRIP supporting reference station equipment is now readily available

*and considering* the growing global need for real-time access to high-rate GNSS data for the determination of real-time satellite orbits and clocks, atmospheric delays, disaster monitoring etc

*asks* the member countries to support these activities by streaming carrier phase data from EPN stations through the Internet using the NTRIP standard, within the framework of the EUREF-IP project.

### **Resolution 5**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*considering* the widespread adoption of the European Terrestrial Reference System 1989 (ETRS89) within Europe

*encourages* NMAs and National Cadastral Agencies to raise public awareness of ETRS89 as the recommended European system for geo referencing activities.

### **Resolution 6**

The IAG Reference Frame Sub-commission for Europe (EUREF)

which held its fifteenth symposium in Vienna from June 1 – 4 2005

*expresses* its heartfelt thanks to the Local Organising Committee, its chairman Peter Pešec as well as the Austrian Academy of Sciences Headquarters Vienna, the Space Research Institute Graz and the Federal Office of Metrology and Surveying for organising the symposium and for the excellent arrangements resulting in a very successful meeting.

## **Fast Bibliography**

The fast bibliography consists of a listing of papers relevant to Geodesy, that has been collected by the IAG Bibliographic Service (IBS) since previous issue of the fast bibliography (IAG Newsletter May 2005 and Journal of Geodesy 79/1-2). The IBS is based on the literary data bank GEOPHOKA, which is maintained by BKG (Budensamt für Kartographie und Geodäsie) at the Branch Office Leipzig, Leipzig Zentrale technisch – wissenschaftliche Angelegenheiten, Bibliothek, Karl-Rothe Strasse 10-14, 0415 Leipzig, Germany. The IBS can be reached at the following Internet address: <http://www.leipzig.ifag.de>. The bibliographic services are furthermore reachable through the homepage of IAG: <http://www.iag-aig.org>.

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