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## Contents

|   |          |
|---|----------|
| <b>General Announcements</b> .....  | <b>2</b> |
| Changes to the ILRS Terms of Reference .....  | 2        |
| Corrections to the Geodesist's Handbook .....   | 2        |
| The IUGG Electronic Journal.....  | 2        |
| Vice President of the IAG was conferred Doctor Honoris Causa.....   | 2        |
| <b>Meeting Announcements</b> .....  | <b>2</b> |
| <b>IAG Sponsored Meetings</b> .....   | <b>2</b> |
| The 2004 International Symposium on GPS/GNSS (GNSS 2004).....   | 2        |
| IAG-IASPEI Joint Capacity Building Workshop .....   | 2        |
| International IGeS Geoid School .....   | 3        |
| International Symposium on Geodetic Deformation Monitoring - From Geophysical to Engineering Roles .....      | 3        |
| <b>IAG Related Meetings</b> .....   | <b>3</b> |
| Laser Scanner Conference .....  | 3        |
| 3rd conference on Geodesy, GIS and Real Estate.....   | 3        |
| AARSE Conference and preconference AFREF Workshop .....   | 3        |
| International Symposium "Modern Technologies, Education and Professional Geodesy and Related Fields" .....    | 3        |
| 19 <sup>th</sup> CODATA International Conference .....  | 3        |
| INGEO 2004 3 <sup>rd</sup> International Conference on Engineering Surveying.....                             | 3        |
| <b>IAG Sister Societies' General Assemblies</b> .....   | <b>4</b> |
| ICC2005 Conference.....   | 4        |
| <b>Meeting Reports</b> .....  | <b>4</b> |
| 1st FIG International Symposium on Engineering Surveys for Construction Works and Structural Engineering..... | 4        |
| <b>Obituary</b> .....   | <b>5</b> |
| Baron Paul Melchior.....  | 5        |
| <b>Fast Bibliography</b> .....  | <b>6</b> |

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

### ***Changes to the ILRS Terms of Reference***

The ILRS Governing Board has approved changes to the ILRS Terms of Reference. These changes reflect (1) changes in the IAG organization and (2) reduction to the required number of Governing Board meetings (from 2 to 1) and General Assemblies (from 2 to 1) per year (nothing precludes having more if we choose). The changes are reflected in Sections 3.2, 3.5, and 4.2. The modified Terms of Reference document can be found on the ILRS website at: [http://ilrs.gsfc.nasa.gov/about\\_ilrs/termsref.html](http://ilrs.gsfc.nasa.gov/about_ilrs/termsref.html).

CAREY NOLL  
SECRETARY, ILRS CENTRAL BUREAU

### ***Corrections to the Geodesist's Handbook***

Consider the following small corrections to the Geodesist's Handbook:

In chapter 'Geodetic Publication Series' instead: Geowissenschaftliche Mitteilungen (on p.744), enter an 'i' before the 'l' in 'Mitteilungen'. Remove the email address given there and replace with: [harald.schuh@tuwien.ac.at](mailto:harald.schuh@tuwien.ac.at). In chapter 'Educational Establishments for Geodesy', replace the phone and fax numbers and email address given there for the Vienna University of Technology (p. 736 bottom) by +43-1-58801-12860 (Tel) and +43-1-58801-12896 (Fax).

### ***The IUGG Electronic Journal***

This short, informal newsletter is intended to keep IUGG Member National Committees informed about the activities of the IUGG Associations, and actions of the IUGG Secretariat. Past issues are posted on the IUGG Web site <http://www.IUGG.org>.

### ***Vice President of the IAG was conferred Doctor Honoris Causa***

Dr. Michael G. Sideris, professor in Geomatics Engineering and Associate Dean in the Faculties of Engineering and Graduate Studies at the University of Calgary, was conferred the degree of Doctor Honoris Causa (Dr. h.c.) by the University of Architecture, Civil Engineering and Geodesy in Bulgaria. The ceremony took place in Sofia on September 13, 2004. In his laudation, the Dean of the Faculty of Geodesy, Prof. S. Gospodinov, stated that the honorary degree was awarded to Dr. Sideris "for his personal contribution to the development of important trends in the field of theory and practice in geodesy; for his fruitful cooperation with the University of Architecture, Civil Engineering and Geodesy; and for his active role in promoting and enhancing the higher education in geodesy in Bulgaria." Dean Gospodinov also acknowledged Dr. Sideris's leadership in the promotion of geodetic research through his past involvement in, and current position as the Vice President of the International Association of Geodesy.

## Meeting Announcements

### ***IAG Sponsored Meetings***

#### ***The 2004 International Symposium on GPS/GNSS (GNSS 2004)***

6-8 December 2004, Sydney, Australia  
Internet: [www.gnss2004.org](http://www.gnss2004.org).

#### ***IAG-IASPEI Joint Capacity Building Workshop***

17-23 January 2005, Miramare-Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP), will organize a Workshop on Deformation Measurements and Understanding Natural Hazards in Developing Countries. The Workshop will co-sponsored by IAG, IASPEI and IUGG. Please visit <http://agenda.ictp.trieste.it/smr.php?1642> for more information.

### **International IGeS Geoid School**

*31 January- 5 February 2005, Budapest, Hungary*

The next International IGeS School on "The Determination and Use of the Geoid" will be at Budapest, Hungary. The preliminary program and related information is available at <http://www.iag-aig.org>.

### **International Symposium on Geodetic Deformation Monitoring - From Geophysical to Engineering Roles**

*17-19 March, 2005, Jaén (Spain)*

The International Symposium on Geodetic Deformation Monitoring: From Geophysical to Geodetic Roles will be held at the University of Jaén (Spain) from 17th to 19th March 2005. The Symposium will be hosted by the Geodesy Research Group of the University of Jaén. For more information please visit the workshop web site at <http://www.ujaen.es/huesped/gdeforma/>.

### **IAG Related Meetings**

#### **Laser Scanner Conference**

*3 - 6 October 2004, Freiburg im Breisgau, Germany*

International Conference "Laser-Scanners for Forest and Landscape Assessment - Instruments, Processing Methods and Applications". For details, visit: <http://www.natscan.de/conference/>.

#### **3rd conference on Geodesy, GIS and Real Estate**

*13. – 14 October 2004, Herľany, Slovakia*

Detailed information you can find at: [http://www.fberg.tuke.sk/fakulta/konf\\_herľany/html/indexen.htm](http://www.fberg.tuke.sk/fakulta/konf_herľany/html/indexen.htm)

#### **AARSE Conference and preconference AFREF Workshop**

*18-22 October 2004, Nairobi, Kenya*

The 5<sup>th</sup> AARSE (African Association of Remote Sensing of the Environment) Conference and AFREF Workshop "Geoinformation Sciences in Support of Africa's Development" will be held in Nairobi, Kenya. For details, please visit <http://www.rcmrd.org/aarse.php>.

#### **International Symposium "Modern Technologies, Education and Professional Geodesy and Related Fields"**

*4-5 November 2004, Sofia, Bulgaria*

The International Symposium "Modern Technologies, Education and Professional Geodesy and Related Fields" will be held in Sofia, Bulgaria. Please visit <http://acstre-ma.vmei.acad.bg/Sofia2004> for details.

#### **19<sup>th</sup> CODATA International Conference**

*7-10 November 2004, Berlin, Germany*

CODATA - Committee on Data for Science and Technology of the International Council of Science – ICSU Title: "The Information Society: New Horizons for Science". Visit <http://www.CODATA.org/04conf> for more information.

#### **INGEO 2004 3<sup>rd</sup> International Conference on Engineering Surveying**

*11-13 November 2004, Bratislava, Slovakia*

FIG Regional Conference for Central and Eastern Europe organized by Department of Surveying of the Slovak University of Technology in Bratislava and the Commission 6 of the International Federation of Surveyors (FIG), to be held in Bratislava, Slovakia, November 11–13, 2004. Visit <http://www.fig.net/bratislava> for more information

## ***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.

## **Meeting Reports**

### ***1st FIG International Symposium on Engineering Surveys for Construction Works and Structural Engineering***

The University of Nottingham was host to an International Federation of Surveyors' (FIG) Conference from the 28 June to 1 July. The symposium was held as part of Working Group 6.4 "Engineering Surveys for Construction Works and Structural Engineering" and Task Force 6.1.1 "Measurements and Analysis of Cyclic Deformations and Structural Vibrations". The Conference was the "First International Symposium on Engineering Surveys for Construction Works and Structural Engineering". Both these groups are chaired by Dr Gethin Roberts of the Institute of Engineering Surveying and Space Geodesy at the University of Nottingham, and organiser of the symposium.

The conference was attended by 70 people from a vast array of countries around the World. The symposium was held over the first three days, with a workshop on the fourth. The symposium and workshop saw 56 papers being presented, covering all aspects of the symposium's field. The workshop detailed the research carried out by the University of Nottingham and Cranfield University as part of an EPSRC (Engineering and Physical Sciences Research Council) funded project "A Remote Health Monitoring System Using Computational Simulation and GPS Sensors".

Overall, the conference was very successful, allowing international researchers to be able to discuss and disseminate results. The conference was part sponsored by the IAG, Leica Geosystems, Topcon, Trimble and Accurate Controls.



Photo of some of the delegates.

## Obituary

### *Baron Paul Melchior*



On the 15th of September 2004, Baron Paul Melchior passed away. He was 78 years old. Recently, he had hip replacement surgery and died painfully from complications.

Paul Melchior was an exceptional person. He contributed immensely to the development of geophysics not only as an outstanding scientist but also as a great leader. From 1973 to 1991, he served as Secretary General of International Union of Geodesy and Geophysics (IUGG), and was the Honorary Secretary General of IUGG until his death. His tenure lasted so long because he had an extraordinary ability to meet the expectations of his colleagues, and it was difficult to find someone who was willing to follow in his footsteps to manage such a demanding position. One of his successes as Secretary General was the admission of China as member of IUGG, for which he showed all his skill in diplomatic matters.

During his long and fruitful scientific career, Paul Melchior had been Director of the International Center for Earth Tides (1958-1995), President of the Commission of Earth Rotation of the International Astronomical Union (1967-1970), and President of CODATA (1974-1978).

Paul Melchior studied mathematics at the Free University of Brussels. His Doctorate in Mathematical Sciences was earned at the same University in 1951. His professional career started as assistant at the Royal Observatory of Belgium in 1949. He became the Director in 1981 and served in that capacity until his retirement in 1990. Paul Melchior had a profound attachment to the Observatory. His contributions to the development of geophysics and geodesy at the Observatory are countless and brought great renown to his grateful Institute. For his dedication for science and his international reputation, in 1993 King Baudouin bestowed upon him the title of Baron. Paul Melchior valued this mark of honour above all. He was very attached to his country and its monarchy.

Paul Melchior began his career as an astronomer. Between 1950-1957, he spent long nights observing at the Askania Great Meridian Circle in Uccle. After compiling the data, he published the most precise star catalogue of that time. Soon, he was interested in the Earth's rotation. He then developed the complete theory of the motions of the Earth's rotational axis and its link to Earth's tides. This became his main subject of research.



He began measuring Earth tides in 1957 with the Verbaandert-Melchior quartz tiltmeters. In 1958, he was the first to analyze Earth tide observations using an electronic computer, the famous IBM 650. In 1968, Paul Melchior founded, with Johnny Flick, the Underground Laboratory of Walferdange in Luxembourg. In 1969, with Prof. Manfred Bonatz, they installed tiltmeters, gravimeters and a satellite camera in Spitzbergen (Norway). Thanks to his growing scientific reputation, the US Navy supported him to set up the first permanent Transit Satellite Doppler recording station in Europe, which operated until 1993. In 1973, his skillful and accurate interpretation of Earth tide gravity observations led the US Air Force to entrust his team to carry out Trans World Tidal Gravity Profiles. A total of 127 stations were observed worldwide for at least 6 months. This exceptional data set was used to assess the precision of the oceanic tidal models derived from Topex-Poseidon a few years ago. Always looking for more precise observations in gravimetry, Paul Melchior succeeded in raising funds to install the first superconducting gravimeter in Europe in Uccle.

Paul Melchior was also a Professor at the Catholic University of Louvain. His lectures were gripping due to his tremendous experience and expertise. He directed several Ph. D. students who considered themselves lucky to have him as an advisor. Being absorbed by his scientific and administrative life, he chose to trust his students instead of directing their theses on a daily basis. His door was open at any time to discuss science and he always gave advice without imposing direction. Paul Melchior succeeded in hiring some of his students at the Royal Observatory of Belgium, and helped and supported the others to get positions in academic institutes. In his last years, he was deeply involved in the development of the European Center for Geodynamics and Seismology (ECGS) in Luxembourg. Paul Melchior, one of the founders of the ECGS, was the most active member of the scientific committee.

Although Paul Melchior was very busy, he found the time to write about 300 scientific papers as well as two books published by Pergamon Press. The first one, published a few decades ago, was devoted to Earth Tides. It is still the only one on the subject. He will be remembered as "the Father of Earth tides," and was bestowed during his lifetime with numerous international honours and distinctions. Notable among these (in addition to the title of Baron awarded by the King of Belgium) are his election to the title of "Fellow" of the American Geophysical Union in 1978; his nomination as honorary Professor of the Institute of Geodesy and Geophysics of the Sinica Academy in China; and his nominations as foreign member to various scientific academies in Finland, the Netherlands, Spain, and Romania.

Paul Melchior had an extremely rich personality. In addition to his scientific career, he was a humanist passionate about history and literature. He also enjoyed national and international politics, which were favourite subjects of discussion. Anyone who had the chance to have dinner with Paul Melchior will never forget an enjoyable time listening to his incredible stories so well told. He is remembered for his taste for good foods, especially Italian cooking.

As a friend, Paul Melchior was trusting and loyal. He enjoyed writing to his friends and his correspondence could easily fill the entire library of the Royal Observatory. Being a stamp collector, one suspected that each time he sent a letter, he was anxious to get a nice stamp on the returning letter.

A man of his calibre could count on a wife of exception. Madame Melchior was literally at the service of the career of her husband. She prepared dinner for so many visiting scientists. She also learned Russian to translate the huge Russian bibliography on Earth Tides for her husband but also for all the readers of the Bulletin d'Informations des Marées Terrestres.

Paul Melchior will be missed not only by his family and friends, but also by his many colleagues, worldwide. His motto was: "In Omnibus Terris Amicus".

PREPARED BY V. DEHANT AND O. FRANCIS  
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## 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 August 2004 and Journal of Geodesy 78/3). 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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