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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

### ***Cross of the Order of Merit for Hermann Drewes***



The President of the Federal Republic of Germany, Horst Koehler, awarded Prof. Dr. Hermann Drewes, IAG Secretary General and Director of the German Geodetic Research Institute (DGFI), the Cross of the Order of Merit of the Federal Republic of Germany. The decoration was handed over by the Bavarian Minister for Science, Research and Arts on February 11, 2008. In his eulogy the minister accentuated the work of Hermann Drewes in the new orientation of DGFI's research programme towards investigations on global geodynamics, in the SIRGAS reference frame integrating all South American countries, and in the international activities within IAG with emphasis on the international cooperation including developing countries. The ceremony was taken as a good opportunity to present Geodesy to the public and to policy makers.

IAG COB

### ***Vacant position at University of Calgary***



#### *Assistant Professor in Earth Observation for Energy and Environment*

The Department of Geomatics Engineering, in the Schulich School of Engineering at the University of Calgary, invites applications for the position of Assistant Professor (tenure track) in earth observation for energy and environment, effective July 1, 2008. As part of its commitment to excellence and growth in the energy and environment priority area, the University of Calgary is undertaking a major expansion which involves adding over 80 faculty members, a major new research and education facility, and spaces for an additional 650 undergraduate and 350 graduate students. Interdisciplinary research and education is central to the expansion, and the successful candidate will work closely with other researchers in the Institute for Sustainable Energy, Environment & Economy (ISEEE), Energy and Environment Systems Group ([www.ucalgary.ca/ees](http://www.ucalgary.ca/ees)) and the Centre for Environmental Engineering Research and Education (<http://www.schulich.ucalgary.ca/CEERE/index.html>).

A PhD in Earth observation or related geomatics engineering disciplines with applications in energy and environment is required. Demonstrated research expertise in earth observation with applications to environmental problems is desirable. Expertise in one or more of the following ground-based, airborne and satellite observing systems, methods and applications is desirable: high-resolution satellite imagery, LiDAR, SAR (including InSAR, POLSAR and POLinSAR), radar and laser altimetry; new data acquisition techniques in Earth observation, development of innovative techniques for data integration, image/signal processing, pattern recognition, and the analysis of multi-dimensional, multi-sensor, multi-temporal earth observation data; desirable applications are those oriented towards energy and environment, such as glacier ice monitoring, water and air quality monitoring, forestry, land deformation and natural hazards monitoring.

The position is expected to link with all related disciplines of geomatics engineering and involves both teaching and research in earth observation applied to energy and environment. The applicant is expected to develop a strong research program and should be capable of attracting external funding for these research

activities and graduate student support. The selected candidate must also have the capability and the flexibility to teach at all levels of the Geomatics Engineering program and will be required to register as a Professional Engineer in the Province of Alberta within 2 years of initial appointment. The appointee will have the opportunity of close collaboration with many allied oil & gas companies and research organizations located in Calgary.

The Department of Geomatics Engineering is actively involved in all aspects of geomatics engineering and has 21 faculty members, some 90 graduate students, and 55 students in each year of the undergraduate program. State-of-the-art geomatics engineering equipment and computer facilities are available. Related information can be found at <http://www.geomatics.ucalgary.ca>

The University of Calgary is a co-educational, non-denominational, government supported institution with a student population of about 27,000. The City of Calgary itself has a population of over one million and is situated within an hour's drive of Banff National Park, one of the most beautiful parts of the Rocky Mountains. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Calgary respects, appreciates and encourages diversity.

Applications should include a detailed curriculum vitae and a complete list of publications. Three letters of reference should be mailed directly to:

**Head, Department of Geomatics Engineering, Schulich School of Engineering**  
**University of Calgary**  
**2500 University Drive NW, Calgary, Alberta T2N 1N4, Canada**  
E-mail: [minch@ucalgary.ca](mailto:minch@ucalgary.ca)

Closing date: **1 May 2008**

MS. MARCIA INCH  
Administrative Manager, University of Calgary

### **Postdoctoral Research Staff at Curtin**



**Curtin**  
UNIVERSITY OF TECHNOLOGY

*Western Australian Centre for Geodesy, Curtin University of Technology, Perth, Western Australia*  
*(2 positions, full-time, 3-year fixed-term)*

The Western Australian Centre for Geodesy is part of the Institute for Geoscience Research at Curtin University of Technology, Perth, Western Australia. Staff and students in the Centre are active in a diverse range of pure and applied geodetic research of national and international significance. Our geodetic research programs use state-of-the-art equipment and software, and involve close collaborative links with other universities, industry and government, both in Australia and overseas.

We seek applications from talented and motivated individuals to fill the following two, three-year full-time positions, which have been funded by grants from the Australian Research Council:

- **Research Associate (Physical Geodesy - GRACE)** to assist with the analysis of GRACE (Gravity Recovery And Climate Experiment) data as part of a collaborative project to quantify sea-level change and water storage in Australia. Essential criteria for this position include a higher degree (PhD or equivalent) in geodesy or closely-related field, as well as good computer-programming skills. Previous experience with gravity field modelling from GRACE would be an advantage.
- **Research Associate (Physical Geodesy – Theory)** to assist with the development of ellipsoidal physical geodesy theory into a consistent and useable framework, and to assist with the computation of the Australian geoid model. Essential criteria for this position include a higher degree (PhD or equivalent) in geodesy or closely-related field, as well as good computer-programming skills. Previous experience with physical geodetic theory and gravimetric geoid modelling would be an advantage.

**Further information** and more details on these projects can be obtained from Prof Will Featherstone, tel +61 8 9266-2734, fax +61 8 9266-2703, [W.Featherstone@curtin.edu.au](mailto:W.Featherstone@curtin.edu.au)

**Salary and benefits:** The salary for a postdoctoral Research Associate salary starts from A\$61,645 pa, depending upon qualifications and experience, as well as a generous superannuation (pension) plan. Interstate and overseas appointees will also receive some relocation assistance.

**Submit applications:** Applications, including full CV, list of publications, and the names of two referees, should be submitted to Prof Will Featherstone, Department of Spatial Sciences, Curtin University of Technology, GPO Box U1987, Perth, WA 6845, Australia. Emailed applications in pdf format may be sent to [W.Featherstone@curtin.edu.au](mailto:W.Featherstone@curtin.edu.au)

**Closing date: 28 March 2008.** The start date is reasonably flexible for both positions.  
*Curtin is an Equal Opportunity Employer and provides a smoke-free work environment.*

*Research Associate (Physical Geodesy - GRACE)*

*Western Australian Centre for Geodesy, Curtin University of Technology, Perth, Western Australia  
(Full-time, 3-year fixed-term)*

**Project: Variations of sea level and water storage in the Australian region**

(in collaboration with the Australian National Univ, Univ of Tasmania, Univ of New South Wales, and Geoscience Australia). ARC Discovery-Project Grant

Australia is ominously poised in a period of significant environmental change caused by continued warming of the Earth. Changing sea-levels and variation in national water storage present significant challenges that are at the forefront of Australian consciousness. This research provides the development and extension of space-geodetic observational techniques, and drawing upon recent and significant injections into geospatial infrastructure. It will provide the first-ever comprehensive indication of the contemporary state of changes in sea-level, Antarctic ice cover and broad-scale national water storage.

***Key Responsibilities/Duties***

- Contribute significantly to the above-mentioned project by analysing GRACE and hydrological data in the Australian region
- Maintain collaborative links with all participants (including some travel to the other institutions involved in this project)
- Promote the research programme through publication of peer-reviewed research papers in high-quality journals

***Essential Selection Criteria***

- A higher degree (PhD or equivalent) in geodesy or closely-related field
- Good computer programming skills, preferably FORTRAN and/or C+
- A good knowledge and understanding of physical geodesy, especially GRACE
- Excellent English written and verbal communication skills
- Excellent interpersonal and organisational skills

***Desirable Selection Criteria***

- Postgraduate research experience, particularly in a team environment
- Proven ability to work to tight deadlines and manage a range of activities effectively
- Be able to work independently with limited supervision at times
- A clear commitment to maintain a high standard of work

**Closing date: 28 March 2008.** The start date is reasonably flexible.

***Selection Panel***

- Professor W E Featherstone
- Dr M Kuhn
- Dr J L Awange
- Dr S J Claessens
- Dr J F Kirby

*Research Associate (Physical Geodesy - Theory)*

*Western Australian Centre for Geodesy, Curtin University of Technology, Perth, Western Australia  
(Full-time, 3-year fixed-term)*

**Summary: Ellipsoidal physical geodesy - improved gravity field modelling**  
(ARC Discovery-Project Grant)

For over 300 years, geodesists have known that the Earth's figure is roughly an oblate ellipsoid of revolution, but many physical geodesists still use a spherical Earth model. This research examines, from first principles, the complete treatment of the Earth's gravity field in a purely ellipsoidal framework, ranging from satellite-based gravity field determination to regional geoid modelling. This will result in a general theory of ellipsoidal physical geodesy, which will improve the accuracy of gravity field and geoid modelling and allow us to fully profit from data observed by the new dedicated satellite gravity missions.

#### ***Key Responsibilities/Duties***

- Contribute significantly to the above-mentioned project through theoretical developments, as well as some practical geoid computations
- Maintain collaborative links with all Centre participants
- Promote the research programme through publication of peer-reviewed research papers in high-quality journals

#### ***Essential Selection Criteria***

- A higher degree (PhD or equivalent) in geodesy or closely-related field
- Good computer programming skills, preferably FORTRAN and/or C+
- A good knowledge and understanding of physical geodetic theory and geoid determination
- Excellent English written and verbal communication skills
- Excellent interpersonal and organisational skills

#### ***Desirable Selection Criteria***

- Postgraduate research experience, particularly in a team environment
- Proven ability to work to tight deadlines and manage a range of activities effectively
- Be able to work independently with limited supervision at times
- A clear commitment to maintain a high standard of work

**Closing date: 28 March 2008.** The start date is reasonably flexible.

#### ***Selection Panel***

- Professor W E Featherstone
- Dr M Kuhn
- Dr J L Awange
- Dr S J Claessens
- Dr J F Kirby

W. E. FEATHERSTONE

### ***First Geoinformatics Digital***

The first digital issue of GeoInformatics was published. This means an even more international way of distributing and access to the premier journal on GIS, mapping and surveying and quick and worldwide access to the contents of the magazine, including:

- the latest product and industry news;
- coverage of important conferences and meetings around the world;
- excellent articles on GIS, surveying and mapping from our contributing writers;
- reviews on the most recent surveying products;
- in-depth interviews with prominent people from the industry;
- thought-provoking columns written by prominent people 'in the field'.

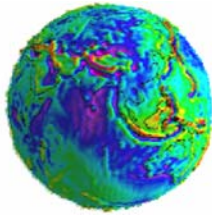
To get access to the digital copy of GeoInformatics please visit the digital GeoInformatics at <http://fluidbook.microdesign.nl/geoinformatics/01-2008/>.

GEOINFORMATICS

## Meeting Announcements

### **IGFS Retreat**

*Bertinoro Centre, Bologna area, Italy March 24-25, 2008*



The IGFS Retreat was an proposal from the “1<sup>st</sup> Meeting of the International Gravity Field Service”. The aim of the retreat is to make a detailed action plan for the development and integration of the gravity field related services:

- BGI – Bureau Gravimetricque
- IGeS – International Geoid Service
- ICET – International Centre for Earth Tides
- ICGEM – International Center for Global Earth Models
- IDEMS – International DEM Service
- *IAS – International Altimeter Service (currently being formed)*

The goal is how to make IGFS an effective “umbrella service”, e.g. distributing global, joint gravity field solutions and standard models, especially to service the needs of GGOS (Global Geodetic Observing System), and making outreach broad on behalf of the whole geodetic gravity field science. It will also be central to define the future role of the “IGFS Central Bureau” located at the National Geospatial-Intelligence Agency.

The retreat is held just before the GGOS Retreat, Bertinoro Centre, Bologna, March 25-27, see <http://geodesy.unr.edu/ggos/sc/meetings/scm13/>

### **Agenda for the IGFS retreat:**

Monday, March 24:

- 1800 Initial meeting, meet in reception area
- 2000 Working dinner at Bertinoro Center

Tuesday, March 25:

- 0900 Discussion and planning session:
  - Status outline of the “level-1” services
  - Future role of Central Bureau and NGA in IGFS
  - Data collection initiatives (e.g. “World Gravity Project”, EGM08 follow-up), following the example of IERS? - “IGFS” combined gravity field models and a global vertical datum?
  - Web sites and service
  - IGFS representation in GGOS and IERS
- 1300 Lunch
- 1400 Follow-up discussions, transfer when ready to GGOS 2020 summary session
- 1830 GGOS ice-breaker

(March 26-28: GGOS retreat)

Note: The GGOS retreat is open to all gravity field service chairman or representatives (service presidents are by default members of the GGOS Steering Committee). Please try and participate in the GGOS retreat if at all possible, to secure a better representation of gravity there.

### **Practical arrangements:**

The Bertinoro Centre is about 80 km from the Airport of Bologna, and close to the smaller regional airport of Forli. For details of transportation to Bertinoro see [http://www.ceub.it/inglese/centro\\_universitario.htm](http://www.ceub.it/inglese/centro_universitario.htm)

Coordination of “car-pool” rental car transportation from Bologna will be arranged, contact [rf@space.dtu.dk](mailto:rf@space.dtu.dk) if required or if you want to offer space.





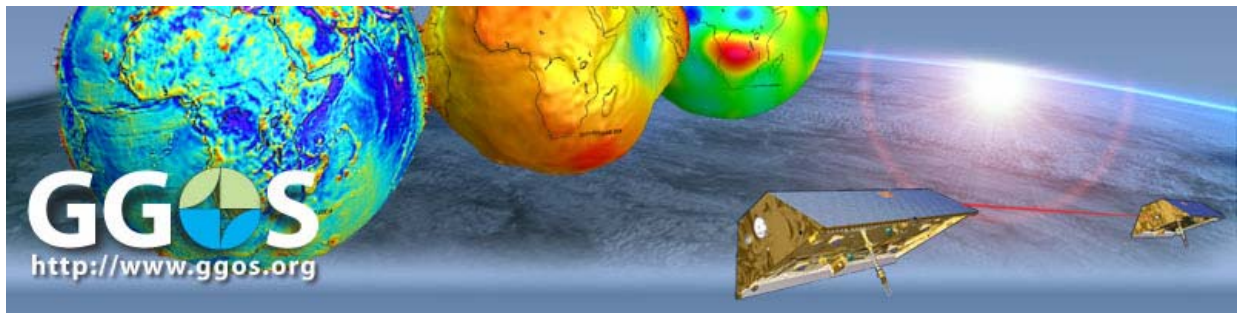
There will be no registration fee for the IGFS retreat. Room and meal costs are around 50-55 Euro at the Bertinoro Centre, see [http://www.ceub.it/corsi/corso-scheda\\_en.cfm?wid=1009](http://www.ceub.it/corsi/corso-scheda_en.cfm?wid=1009). Online booking if you participate in both the IGFS and GGOS retreat is available here (mention you also participate in “International Gravity Field Service” meeting).

If you only participate in the IGFS retreat, please book accommodation directly with the Bertinoro centre, contact [segreteria@ceub.it](mailto:segreteria@ceub.it) with cc to Ms Eleonora Campori ([ecampori@ceub.it](mailto:ecampori@ceub.it)).

See you in Italy

RENE FORSBERG, IGFS  
Mobile +45-2540-2775

### GGOS Retreat



The 2008 GGOS Retreat will take place on March 25 to March 28, 2008, in Bertinoro, Italy. This retreat will be held in conjunction with the Thirteenth Meeting of the GGOS Steering Committee on March 28, 2008. The main focus of the retreat will be the implementation of the GGOS strategy as described in the GGOS 2020 Documents. The subsequent Steering Committee will formalize the results of the discussions during the preceding Retreat through decisions. Preliminary Program Information is available at the following webpage: <http://geodesy.unr.edu/ggos/sc/meetings/scm13/>

### EGU General Assembly 2008 – Geodesy Sessions & Abstract Deadline

The next General Assembly of the European Geosciences Union will be held in Vienna, Austria, April 13-18, 2008. Here is a list of Geodesy (G) sessions at the EGU 2008 with the names of Conveners:

- G1 Marine gravity field modeling (Ardalan, A.)
- G2 Recent Developments in Geodetic Theory (Holota, P.)
- G3 GRACE Science Applications (Flechtner, F.)
- G4 The impact of technique errors on reference frame accuracy and stability (Altamimi, Z.)
- G5 Observing and understanding Earth rotation variability and its geophysical excitation (Salstein, D.)
- G6 Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-listed in GD) (Meghraoui, M.)
- G7 GNSS new capabilities for geosciences (Perosanz, F.)
- G8 Monitoring of the lower atmosphere and ionosphere by space geodetic techniques (Boehm, J.)
- G9 Geophysical models for the analysis of space-geodetic techniques (Nothnagel, A.)
- G10 Geodetic and Geodynamic Programmes of the CEI (Central European Initiative) (Sledzinski, J.)
- G11 European cartographic heritage - Historical topographic and cadastral maps and their geodetic basis (Timár, G.)



- G12 GGOS: Observing and Interpreting Earth's Mass Transports (Gross, R.)
- IS9 - G14/CL52/GD24/GMPV41 Upper Mantle and Lithosphere Dynamics, Glacial Isostatic Adjustment and Quaternary Climate (Poutanen, M.)
- IS27 - MPRG13/G15/GD23 Small scales for potential fields - tools and models (co-organized by MPRG, G & GD) (Panet, I.)
- IS64 - TS19/GD33/G16 Geology, tectonics, kinematics, seismology, and geodynamics of the Mediterranean-Near/Middle East region (Govers, R.)
- IS10 - G17/HS1.7/NH10.4 Ground Movement: Measurements, Subsurface Causes, and Interpretation (Fokker, P.)

For more information see <http://meetings.copernicus.org/egu2008>.

Important dates:

- 14 January 2008:** Deadline for receipt of abstracts
- 31 March 2008:** Deadline for pre-registration & hotel booking

[WWW.COSIS.NET](http://WWW.COSIS.NET)

### ***Geodetic Techniques (GNSS, VLBI, SLR) and Its Applications on Atmosphere/Geodynamics session in AOGS 2008***

Asia Oceania Geosciences Society (AOGS) is the one of the biggest society on Geosciences and has the mission to promote the Geophysical sciences for the benefit of humanity in Asia and Oceania. The 5<sup>th</sup> annual meeting of AOGS will hold in Busan, South Korea on 16-20 June, 2008. You can find more information at the AOGS web site <http://www.asiaoceania.org/aogs2008/index.asp> and [http://www.asiaoceania.org/aogs2008/doc/aogs2008\\_8pp\\_brochure.pdf](http://www.asiaoceania.org/aogs2008/doc/aogs2008_8pp_brochure.pdf). The session for Space Geodesy was accepted like as "Geodetic Techniques (GNSS, VLBI, SLR,,) and Its Applications on Atmosphere/Geodynamics" (Session number : SE87)

The deadline of submitting abstract is **7 February, 2008**.

*SE87: Geodetic Techniques (GNSS, VLBI, SLR,,) and Its Applications on Atmosphere/Geodynamics*

The current Space/Ground Geodetic techniques (e.g. GNSS (both ground and LEO based), VLBI, SLR.) with an unprecedented accuracy enable to characterize a broad range of Earth sciences, especially increasingly GPS/SLR/VLBI networks in Asia-Oceania areas cooperating with IGS, ILRS, IVS and GGOS as well as the CHAMP/GRACE and the recently launched Formosat-3/COSMIC mission. Each or combination of geodetic techniques provide valuable insights for Atmosphere (troposphere and ionosphere) and Geodynamics, such as Space-borne GNSS Radio Occultation and Ground-based GNSS meteorology, crustal deformation, Earth Rotation and Polar Motion, Precise Orbit Determination, Positioning and Navigation (RTK, PPP.), land subsidence, natural hazard monitoring as well as deep-space exploration. This session welcomes all Space Geodetic techniques issues/developments and their integration applications in Atmosphere/Geodynamics.

JAMES PARK AND MIKE PEARLMAN

### ***EUREF Symposium 2008***

*18-20 June, 2008  
Brussels, Belgium*

The EUREF symposium is organised yearly. It is the forum where the EUREF activities are discussed and resolutions are taken. The 2008 symposium will be organised by the Royal Observatory of Belgium (ROB), the Royal Military Academy (RMA) and the National Geographic Institute (NGI).

Important deadlines:

- Abstract submission : **April 30, 2008**
- Registration : **May 15, 2008**.

Details are available through the Symposium homepage <http://epncb.oma.be/EUREF2008/>.

WWW.EUREF-IAG.NET

## **International Symposium on Gravity, Geoid and Earth Observation GGEO 2008**

23-27 June, 2008

Chania, Crete, Greece

The symposium aims at bringing together geodesists and geophysicists working in the general areas of gravity, geoid, geodynamics and Earth observation. Besides covering the traditional research areas, special attention will be paid to the use of geodetic methods for

- Earth observation,
- Environmental monitoring,
- Global Geodetic Observing System (GGOS)
- Earth Gravity Models (e.g., EGM08),
- Geodynamics studies,
- Dedicated gravity satellite missions (i.e., GOCE),
- Airborne gravity surveys,
- Geodesy & geodynamics in polar regions, and
- The integration of geodetic and geophysical information.

The **first circular letter** is available [http://www.geomatlab.tuc.gr/files/ggeo2008/GGEO2008\\_1st\\_Circular.pdf](http://www.geomatlab.tuc.gr/files/ggeo2008/GGEO2008_1st_Circular.pdf).

The web site of the Symposium is (<http://www.geomatlab.tuc.gr/GGEO2008>) with additional information.

The **abstract submission deadline** is **29 February 2008**.

SOURCE: WWW.GEOMATLAB.TUC.GR/GGEO2008

## **37<sup>th</sup> Scientific Assembly of the Committee on Space Research and Associated Events – COSPAR 2008**

50<sup>th</sup> Anniversary Assembly

13 - 20 July 2008, Montreal, Canada.

### Contact:

COSPAR Secretariat, c/o CNES, 2 place Maurice Quentin, 75039 Paris Cedex 01, France. Tel: +33 1 44 76 75 10, Fax: +33 1 44 76 74 37. E-mail: [cospar@cosparhq.cnes.fr](mailto:cospar@cosparhq.cnes.fr)  
<http://www.cospar2008.org/> or <http://www.cospar-assembly.org>

### Scientific Program Chair:

Prof. Jean-Pierre St.-Maurice, University of Saskatchewan, Saskatoon, Canada

### Abstract Deadline:

February 17, 2008

### Topics:

Approximately 85 meetings covering the fields of COSPAR Scientific Commissions (SC) and Panels:

- SC A: The Earth's Surface, Meteorology and Climate
- SC B: The Earth-Moon System, Planets, and Small Bodies of the Solar System
- SC C: The Upper Atmospheres of the Earth and Planets Including Reference Atmospheres
- SC D: Space Plasmas in the Solar System, Including Planetary Magnetospheres
- SC E: Research in Astrophysics from Space
- SC F: Life Sciences as Related to Space
- SC G: Materials Sciences in Space
- SC H: Fundamental Physics in Space
- Panel on Satellite Dynamics (PSD)
- Panel on Scientific Ballooning (PSB)
- Panel on Potentially Environmentally Detrimental Activities in Space (PEDAS)
- Panel on Radiation Belt Environment Modelling (PRBEM)
- Panel on Space Weather (PSW)
- Panel on Planetary Protection (PPP)
- Panel on Capacity Building (PCB)
- Panel on Education
- Special events: 50th anniversary lectures, interdisciplinary lectures, space agency round table, session on EGY - Towards an Earth and Space Science Commons

### **16th International Workshop on Laser Ranging – Updated Announcement**

*Poznan Poland, October 13-17, 2008.*

The Space Research Centre of the Polish Academy of Sciences will host the next International Workshop on Laser Ranging in Poznan Poland (15 km from the Borowiec SLR station) on October 13-17, 2008 (note new dates). The theme of this year's workshop is "SLR, The Next Generation". The first circular will be issued soon. In the meantime, we ask you to reserve these dates on your calendars and plan to attend what will surely be another exciting laser workshop.

We are also pleased to announce that the proceedings from the 15th International Workshop on Laser Ranging, held in Canberra Australia in October 2006, have been completed. All presentations and papers from this workshop will also be accessible through the ILRS Web site at: <http://cddis.gsfc.nasa.gov/lw15/index.html>.

CAREY NOLL  
Crustal Dynamics Data Information System (CDDIS)

### **IAG Sponsored Meetings**

#### **2008 GGOS Retreat**

*March 25-28, 2008, Bertinoro, Italy*

The 2008 GGOS Retreat will take place on March 25 to March 28, 2008, in Bertinoro, Italy. This retreat will be held in conjunction with the Thirteenth Meeting of the GGOS Steering Committee on March 28, 2008. The main focus of the retreat will be the implementation of the GGOS strategy as described in the GGOS 2020 Documents. The subsequent Steering Committee will formalize the results of the discussions during the preceding Retreat through decisions. Visit <http://geodesy.unr.edu/ggos/sc/meetings/scm13/> for details.

#### **EUREF Symposium 2008**

*June 18-20, 2008, Brussels, Belgium*

The EUREF Symposium 2008 will take place in Brussels, Belgium from 18<sup>th</sup> to 20<sup>th</sup> June 2008. Details are available through the home page of the Symposium: <http://epncb.oma.be/EUREF2008/>.

#### **International Symposium on Gravity, Geoid and Earth Observation GGEO 2008**

*June 23-27, 2008, Chania, Crete, Greece*

The symposium aims at bringing together geodesists and geophysicists working in the general areas of gravity, geoid, geodynamics and Earth observation. Besides covering the traditional research areas, special attention will be paid to the use of geodetic methods for Earth observation, environmental monitoring, Earth Gravity Models, geodynamics studies, dedicated gravity satellite missions, airborne gravity surveys, Geodesy & geodynamics in polar regions, and the integration of geodetic and geophysical information. The website of the Symposium is <http://www.geomatlab.tuc.gr/GGEO2008>.

#### **New Challenges in Earth's Dynamics ETS2008**

*September 1-5 2008, Jena, Germany*

Under the sponsorship of the International Association of Geodesy (IAG), the Commission 3 (Geodynamics) & the sub-commissions on earth Tides (3.1), Crustal Deformation (3.2), Geophysical Fluids (3.3) and the Global Geodynamics Project (GGP) organise for the first time a joint meeting which will include the 16th International Symposium on earth Tides. The assembly will provide a unique opportunity to exchange new results and strategies to meet the current challenges of earth's dynamics from different viewpoints. For details, please visit [www.ets2008.de](http://www.ets2008.de).

## **IAG Related Meetings**

### **High Precision Navigation and Positioning Conference and INS Tutorial**

*March 11-12 2008, Oslo, Norway*

The Nordic Institute of Navigation (NNF) will arrange the High Precision Navigation and Positioning Conference and Exhibition on March 11th – 12th 2008. The conference venue will be the Norwegian Space Centre, Drammensveien 165, Oslo. This time, the conference is focusing on high precision. More information on the conference is available here: <http://www.nornav.org/high-precision-navigation-and-positioning-conference-and-ins-tutorial.4443838-27945.html>.

### **PLANS 2008: Position Location and Navigation Symposium**

*May 6 - 8 2008, Monterey, California, USA*

PLANS 2008 is the second biennial conference co-sponsored by the IEEE and the ION. Please visit the website [www.plansconference.org](http://www.plansconference.org) for details.

### **Use of GIS and Remote Sensing in Disaster Risk Management**

*May 5 - 16 2008, Bangkok, Thailand*

This 2nd Regional training course will take place in Bangkok, Thailand. The main purpose of the course is to enhance the capabilities of professionals and technical staff working in disaster risk management by providing them with understanding of the use of spatial information in disaster risk management. For detailed information visit [http://www.itc.nl/education/courses/course\\_descriptions/C08-ESA-TM-02.aspx](http://www.itc.nl/education/courses/course_descriptions/C08-ESA-TM-02.aspx).

### **Measuring the changes**

*May 12-15 2008, Lisbon, Portugal*

This conference is the second joint meeting of the two groups under the theme “Measuring the Changes”, combining the 13<sup>th</sup> FIG Symposium on Deformation Measurements and Analysis with the 4<sup>th</sup> IAG Symposium on Geodesy for Geotechnical and Structural Engineering.. The recent catastrophic disasters have dramatically increased the importance, and demand, for fully automated, continuous, and reliable deformation monitoring in the civil engineering, mining, and energy sectors. The Conference webpage is <http://measuringchanges.lnec.pt/>.

### **International Symposium on the Effect of Climate Change on the World's Oceans**

*May 19-23 2008, Gijón, Spain*

Climate change is the most important threat to the Earth. Even if we stabilize CO<sub>2</sub> emissions, the 2007 IPCC (Intergovernmental Panel on Climate Change) Assessment confirms that warming will continue for decades and sea level will continue to rise for centuries. The Symposium will bring together results from observations, analyses and model simulations, at a global scale, and will include discussion of the climate change scenarios and the possibilities for mitigating and protecting the marine environment and living marine resources. For details, please visit [http://www.pices.int/meetings/international\\_symposia/2008\\_symposia/Climate\\_change/](http://www.pices.int/meetings/international_symposia/2008_symposia/Climate_change/)

### **SIRGAS 2008 General Meeting and Workshop**

*May 26-29 2008, Montevideo, Uruguay*

The next SIRGAS meeting will take place in Montevideo, Uruguay, from 28 to 29 May 2008, in combination with the second workshop of the SIRGAS Working Group I (Reference System), which will be held two days before, from 26 to 27 May, 2008. The corresponding web site is <http://www.sirgas.org/index.php?id=156&L=2>.

### **Asia Oceania Geosciences Society's 5th Annual Meeting (AOGS 2008)**

*June 16-20, 2008, Busan, South Korea*

The AOGS mission is to promote geophysical science for the benefit of humanity in Asia and Oceania. Hence, AOGS 2008 will once again bring together geoscientists from all over Asia, Oceania and the rest of the world to present their works and ideas. AOGS invites all geoscientists to convene their own sessions and present their findings at AOGS 2008 in Busan. The session for Space Geodesy was accepted like as "Geodetic Techniques (GNSS, VLBI, SLR,) and Its Applications on Atmosphere/Geodynamics" (Session number : SE87) For further details, visit <http://www.asiaoceania.org/aogs2008/index.asp>.

### **37th Scientific Assembly of the Committee on Space Research and Associated Events – COSPAR 2008**

*50th Anniversary Assembly*

*13 - 20 July 2008, Montreal, Canada.*

The 50<sup>th</sup> Anniversary Assembly COSPAR 2008 will be held in Montreal, Canada. For more information about this particular event please visit the Assembly website at <http://www.cospar2008.org/>.

### **Conference on Remote Sensing Techniques in Disaster Management**

*22-24 September 2008, Zadar, Croatia*

The First International Conference on Remote Sensing Techniques in Disaster Management and Emergency Response in the Mediterranean Region will take place in Zadar, Croatia. The subject "Disaster Management and Emergency Response" is a high-priority topic in the Mediterranean region. Risk reduction using remote sensing techniques may be very helpful in various applications. Identification of relevant space-based and airborne information for Disaster Management Support and Emergency Response is a major priority issue. The webpage of the conference is <http://www.earsel.geosat.hr/>.

### **16th International Workshop on Laser Ranging**

*13-17 October 2008, Poznan, Poland*

The next International Workshop on Laser Ranging will be held in Poznan Poland (15 km from the Borowiec SLR station) on October 13-17, 2008. (note new dates). The theme of this year's workshop is "SLR, The Next Generation". The first circular will be issued soon.

### **HydroChange 2008**

*October 1-3, 2008, Kyoto, Japan*

The HydroChange 2008 Symposium "Hydrological changes and management from headwater to the ocean" will be held at Kyoto Garden Palace, Kyoto, Japan. Please visit the official web site of the Symposium at [http://www.chikyu.ac.jp/HC\\_2008](http://www.chikyu.ac.jp/HC_2008).

### **21st CODATA International Conference**

*5-8 October 2008, Kyiv, Ukraine*

CODATA - International Council for Science : Committee on Data for Science and Technology's 21<sup>st</sup> International Conference: "Scientific Information for Society - from Today to the Future" will be held in Kyiv, Ukraine. Visit <http://www.codata.org/08conf/index.html> for more information.

### **The Role of Hydrology in Water Resources Management**

*October 13-16 2008, Isle of Capri, Naples, Italy*

A joint IAHS UNESCO Symposium on The Role of Hydrology in Water Resources Management will be held in Naples, Italy. The purpose of the Symposium "The Role of Hydrology in Water Resources Management" is to discuss ways in which hydrologists can contribute most effectively to the planning and management of freshwater projects, including the efficient operation of existing systems faced with new socio-political situations. Web page of the Symposium is [www.ihp2008capri.it](http://www.ihp2008capri.it).

### **XXXVI IAH Congress**

*October 26-31, 2008, Toyama, Japan*

"Integrating Groundwater Science and Human Well-being" congress is planned to be held in Toyama, Japan. Please visit <http://www.envr.tsukuba.ac.jp/~IAH2008>.

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

### **Associations' Scientific Assemblies of the IUGG**

- IUGG/IAGA, August 23-30, 2009, Sopron, Hungary
- IUGG/IAHS, September 7-12, 2009, Hyderabad, India
- IUGG/IASPEI, January 10-16, 2009, Cape Town, South Africa
- IUGG/IAG, August 31-September 4, 2009, Buenos Aires, Argentina
- IUGG/IACS-IAMAS-IAPSO, July 19-29, 2009, Montreal, Canada
- IUGG/IAVCEI, August 18-25, 2008, Reykjavik, Iceland

### **EGU 2008**

*April 13-18, 2008, Vienna, Austria*



The European Geosciences Union (EGU) General Assembly will bring together geoscientists from all over Europe and the rest of the world into one meeting covering all disciplines of the Earth, Planetary and Space Sciences. Especially for young scientists the EGU appeals to provide a forum to present their work and discuss their ideas with experts in all fields of geosciences. Please visit <http://meetings.copernicus.org/egu2008/> for more information

### **XXI ISPRS Congress**

*July 3-11, 2008, Beijing, China*

The quadrennial ISPRS Congress will be hosted by the Chinese Society of Geodesy, Photogrammetry and Cartography, with the theme 'Silk Road for Information from Imagery'. It is worth mentioning that ISPRS 2008 Beijing will be held just one month before 2008 Beijing Olympic Games when the city will become the focus of world attention. Detailed information is available from the Congress website: <http://www.isprs2008-beijing.org/>.

### **33<sup>rd</sup> International Geological Congress IGC**

*August 6-14, 2008, Oslo, Norway*

The 2008 Congress will be held in collaboration with the International Union of Geological Sciences (IUGS) and many other international and national organisations, the National IUGS Committees in the five Nordic Countries (Norden): Norway, Denmark, Finland, Iceland and Sweden. Please visit <http://www.33igc.org/> for more information about the IGC 2008.

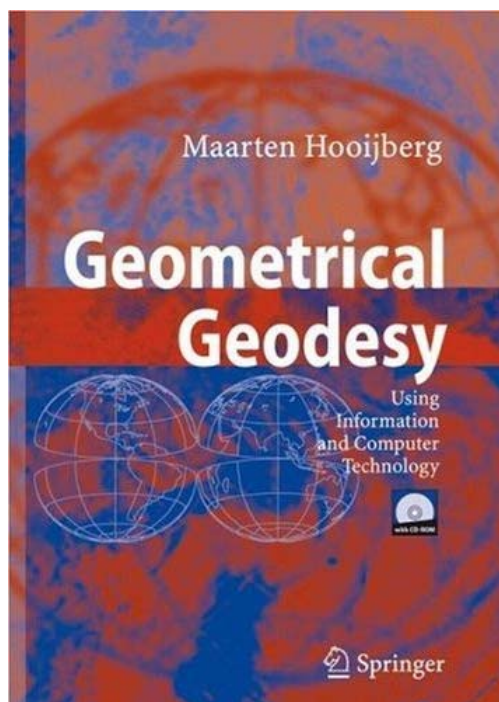
### **IAVCEI 2008 General Assembly**

*August 18-25, 2008, Reykjavik, Iceland*

Reykjavik is an excellent place to host the IAVCEI General Assembly in 2008. The main theme of the meeting will be "Understanding Volcanoes". The meeting is devoted to volcanism and volcano-tectonics of all environments and the impact of volcanic eruptions on the surface environment and human activities. The website of the Assembly is <http://www.iavcei2008.hi.is/>.

## **Book Review**

### ***Maarten Hooijberg: Geometrical Geodesy Using Information and Computer Technology***



Title: Geometrical Geodesy Using Information and Computer Technology  
Author: Maarten Hooijberg  
Publisher: Springer  
ISBN-13: 978-3-540-25449-2  
Year: 2008

Price: EUR 120  
Pages: XXIV, 440 p. 138 illus.  
Details: Hardcover

Reading this book is like visiting a second hand store: it is filled with nice old things and the new things are just so old that they are not attractive anymore. It is also obvious that the author has retired in 1992 and newer has been teaching the subject on which he has now written a book or more correctly compiled material associated with geometrical geodesy.

The book contain 19 Chapters. The first 8 deals with reference systems and datums containing a lot of nice historical information. (The GPS satellites are wrongly associated with a 24 hour revolution time, however (Page VI)). It includes a chapter on solutions to the geodetic main problems without including any mathematical derivations of the equations used. There is no information on the linearized observation equations used when adjusting a geodetic network. Levelling networks are not treated.

Two chapters deal with map projections. Only conformal projections are treated, and again there are no derivations of the equations used. A chapter "About History – A Birds's-Eyw View" is as the title says very incomplete.

A part of the title of the book is "Using Information and Computer Technology (ICT)" and 6 Chapters are dedicated to this subject. It mentions "Parallel Applications" and other (newer) computer facilities without really going into how they are applied in geometrical geodesy. In a chapter on ICT applied to Sea Surveying the content is primarily a description of electronic measuring systems.

Two Chapters are dedicated to FORTRAN and FORTRAN programs. Such programs with associated subroutines are included in a CD which comes with the book. There is not included any software which you could use to adjust a geodetic network. The FORTRAN programs do not conform to modern standards, where all variables are declared ("IMPLICIT" is forbidden). All programs are copyright by Springer Verlag. On page 285 LINUX is described as "mainly used as a web-server".

A last chapter deals with international organizations and do not include information about changes in these organizations since about 2003 even if the book is published in 2008.

An extensive bibliography (32 pages) is included. A major part of the references are to one author, to whom the book is dedicated. And many references are not related to the text. It looks like the authors list of reprints have been pasted into this part of the book.

The book uses many acronyms, of which several are used before their meaning is explained.

Many things are lacking in the book. There is no mention of the close relationship between geometrical geodesy and physical geodesy (integrated geodesy) except in connection with a discussion of the geoid. Estimation of errors is not treated. On the other hand quite a lot of historical information has been collected which makes the book interesting. The book can not be used for teaching geodesy.

C.C.TSCHERNING

## 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 December 2007 and Journal of Geodesy 82/2). The IBS is based on the literary data bank GEOPHOKA, which is maintained by BKG (Bundensamt 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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