



May 2007

Editor: Gyula Tóth

IAG Communication and Outreach Branch
MTA-BME Research Group for Phys. Geod. and Geodyn.
Department of Geodesy and Surveying
Budapest University of Technology and Economics
H-1521 Budapest, Hungary

Information Service of the International Association of Geodesy

<http://www.iag-aig.org>

newsletter@iag-aig.org

Contents

General Announcements	3
The list of the new IAG Officers 2007-2011.....	3
Nominations for the Board of Editors of Journal of Geodesy	4
SIRGAS elections	4
Extend of deadline for submitting bids for Scientific Assembly	4
New draft IAG statutes and by-laws.....	4
IAG Central Bureau: Announcement of Opportunity	4
Preliminary program and Draft Council Agenda of IAG for IUGG XXIV General Assembly Perugia	6
Agenda of opening and closing sessions and draft agenda of EC meeting in Perugia	7
IAG National Correspondent of Chile	8
GNSS position at University of Calgary.....	8
Used cartographic equipment	9
Meeting Announcements	10
Early Registration Deadline for IUGG General Assembly.....	10
EUREF 2007 Symposium	10
GNSS Base Station Installation and Data Processing Training Course.....	10
Symposium on Terrestrial Gravimetry: Static and Mobile Measurements.....	11
First International Summer School on Global Satellite Navigation Systems: A Worldwide Utility	11
“Scientific and Fundamental Aspects of the Galileo Programme”	12
37 th Scientific Assembly of the Committee on Space Research and Associated Events – COSPAR 2008.....	12
16th International Workshop on Laser Ranging – Initial Announcement.....	13
IAG Sponsored Meetings	13
24th General Assembly of the IUGG	13
Symposium on Terrestrial Gravimetry: Static and Mobile Measurements.....	13
“Scientific and Fundamental Aspects of the Galileo Programme”	13
IAG Related Meetings.....	14
WMSCI 2007.....	14
CITSA 2007	14
GNSS Base Station Installation and Data Processing Training Course.....	14
4th AOGS Assembly.....	14
First International Summer School on Global Satellite Navigation Systems: A Worldwide Utility.....	14
ION GNSS 2007.....	15
International Symposium on Strong Vrancea Earthquakes and Risk Mitigation.....	15
International Symposium “Modern Technologies, Education and Professional Practice in Geodesy and Related Fields”	15
37th Scientific Assembly of the Committee on Space Research and Associated Events – COSPAR 2008	15
16th International Workshop on Laser Ranging	15
IAG Sister Societies’ General Assemblies.....	15
XXX th FIG General Assembly and Working Week	15
XIII th ISM Congress	15
Reports	16

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:

C.C Tscherning
University of
Copenhagen
Dept. of Geophysics
Copenhagen, Denmark
Fax: +45 35365357
E-mail: cct@gfy.ku.dk

General Announcements

The list of the new IAG Officers 2007-2011

The IAG Nominating Committee for the election of Officers relative to the period 2007-2011, composed by:

L.P. Fortes
R. Rummel
F. Sansò
C. Wilson

has completed on May 25, 2007 all the election procedures according to the present IAG Bylaws. The list of the new Officers elected to the various positions within the IAG structure, results as follows:

POST	Name of nominee	Member
IAG President	<i>M. Sideris</i>	Canada
IAG Vice-President	<i>C. Rizos</i>	Australia
IAG Secretary General	<i>H. Drewes</i>	Germany
President of Commission 1 (Reference Frames)	<i>Z. Altamimi</i>	France
President of Commission 2 (Gravity Field)	<i>Y. Fukuda</i>	Japan
President of Commission 3 (Earth Rotation and Geodynamics)	<i>M. Bevis</i>	USA
President of Commission 4 (Positioning and Applications)	<i>S. Verhagen</i>	The Netherlands
Members at large (2 to be elected)	<i>R. Wonnacott</i>	South Africa
	<i>K. Heki</i>	Japan
Service Representatives (3 to be elected)	<i>M. Rothacher</i>	Germany
	<i>S. Kenyon</i>	USA
	<i>R. Neilan</i>	USA
President of the COB (Communication and Outreach Branch)	<i>J. Adam</i>	Hungary

The votes of 31 members of the IAG Council, representing each an adhering body to the Association, have been cast.

Now that this procedure has come to an end, I would like to express, also on behalf of the Nominating Committee, the satisfaction for the number and the quality of the participants to the election procedure. This is something vital for our Science because it proves the passion and the human interest in putting work into the organization of the international frame for our scientific achievements, namely IAG.

As in all democratic procedures there is a point when votes are counted and some specific names come out of the urn; this should never be taken as an offence by those who have not been selected, but rather as a push to do more and better.

I have seen no name that has been considered as irrelevant or inapt to the position in terms of votes; only the counting mechanism in the end selects a name, however this is not the end of the story and other elections will come in four years and then others and others, as I hope that IAG will last for ever.

On behalf of the Nominating Committee,

FERNANDO SANSÒ
President of the Nominating Committee

Nominations for the Board of Editors of Journal of Geodesy

According to the IAG ByLaws, §1.5.b nominations of editors for Journal of Geodesy have to be made 2 months before the General Assembly (starting July 2, 2007). Due to a break of commination, this call is first issued now.

The nomination must include: name, adress, e-mail, CV and (optionally) publication list, and should be send to the Editor-in-Chief W.Featherstone, e-mail: W.Featherstone@curtin.edu.au on electronic form before **May 24, 2007**.

Please also state (briefly) your reason for the nomination. Self nominations are permitted.

The list of nominations will be posted on the IAG web-site.

C.C.TSCHERNING
IAG Secretary General

SIRGAS elections

Elections for the presidency and vice-presidency of the Geocentric Reference System for the Americas (SIRGAS) project regarding the 2007-2011 term has just been concluded. Claudio Brunini, from University of La Plata, Argentina, has been elected as the new SIRGAS president, and Laura Sanchez, from Colombia, currently at DGFI, in Germany, has been elected as the new SIRGAS vice-president.

The SIRGAS project encompasses the activities carried by the Sub-commission 1.3b for South and Central America of the IAG Commission I on Reference Frames. IAG is one of the sponsoring entities of the project, and as such has strongly supported the project since its establishment, in October 1993.

LUIZ PAULO FORTES
Former SIRGAS president

EDUARDO LAURÍA
Former SIRGAS vice-president

Extend of deadline for submitting bids for Scientific Assembly

The deadline for submitting bids for hosting the Scientific Assembly has been extended to Friday, **June 8, 2007**. See <http://www.gfy.ku.dk/~iag/sc07.txt>.

IAG BUREAU

New draft IAG statutes and by-laws

The Executive Committee has prepared a second draft of the revised Statutes and By-Laws, see http://www.gfy.ku.dk/~iag/IAG_Statutes-April_27.pdf and http://www.gfy.ku.dk/~iag/IAG_Bylaws-May23.pdf

IAG BUREAU

IAG Central Bureau: Announcement of Opportunity

April 12, 2007.

The International Association of Geodesy (IAG) is informing all concerned scientists and research Institutes that the post of Director of the “International Centre for Earth Tides” (ICET) will become vacant on January first 2008. ICET is one of the IAG Services integrated inside the “International Gravity Field Service” (IGFS). ICET is a member of the Federation of Astronomical and Geophysical Data Analysis Services (FAGS) and a World Data Center.

Interested persons will find in the following document an overview of the responsibilities and activities of ICET. More information can be found on the ICET WEB site <http://www.astro.oma.be/ICET>, or obtained directly from the ICET Director Prof. Bernard Ducarme (ducarme@oma.be).

An application letter should be sent to Prof. Carl Christian Tscherning, IAG General Secretary, (e-mail: iag@gfy.ku.dk) with a description of the long term project foreseen for ICET and the commitment of its new host institution. A copy should be sent to Prof. Gerhard Jentzsch (Gerhard.jentzsch@uni-jena.de), President of ICET Directing board. The proposal should be submitted before **June 1st 2007**.

ICET terms of reference

The terms of reference of the International Centre for Earth Tides (ICET) can be summarised as follows:

- *to collect all available measurements on Earth tides, as World Data Centre;*
- *to evaluate these data by convenient methods of analysis in order to reduce the very large amount of measurements to a limited number of parameters which should contain all the desired and needed geophysical information;*
- *to compare the data from different instruments and different stations distributed all over the world, evaluate their precision and accuracy from the point of view of internal errors as well as external errors;*
- *to help solving the basic problem of calibration by organizing reference stations or realizing calibration devices;*
- *to fill gaps in information and data;*
- *to build a data bank allowing immediate and easy comparison of earth tides parameters with different Earth models and other geodetic and geophysical parameters ;*
- *-to ensure a broad diffusion of the results and information to all interested laboratories and individual scientists.*

Main activities

These goals are achieved essentially by the diffusion of information and software, the data processing, the training of young scientists and the welcome of visiting scientists.

ICET has also a long term “Research Project”. Since 1997, ICET is fostering the development of the “Global Geodynamics Project” (GGP), a permanent network of superconducting gravimeters able to observe inertial and gravitational accelerations at the surface of the Earth from seismic periods up to polar motion. ICET has an agreement with the GeoForschungZentrum (GFZ) Potsdam for the administration of the GGP data base and is responsible for preprocessing and analyzing the tidal data. It represents 90% of the incoming data.

ICET is publishing each year at least one issue the “Bulletin d’Information des Marées Terrestres (BIM)” with original scientific papers. Besides general information including historical aspects and ICET reports, the ICET WEB site gives access to:

- the general bibliography on Earth Tides from 1870-1997;
- the table of content of all the BIM issues, and starting from BIM 133, year 2000, an electronic version of the papers;
- various tidal analysis and preprocessing software available from different WEB sites or on request from ICET;
- various products.

More details on the ongoing activities can be found on the management section of the WEB site.

Requirements

The ICET Director has to be a scientist able to devote a part of his activity to ICET. The task can be shared with other scientists. A scientific expertise in Earth tides is required. Technical support is required for the data reduction and analysis, the ICET and GGP data base maintenance and the updating of the ICET WEB site. From our experience there is enough work for a full time technician, depending of course of the number of involved scientists.

This staff has to be fully supported by the host Institution. Additional costs, such as the publication of the BIM, have also to be supported by the host institution, as ICET is only receiving a slight financial support through the Federation of Astronomical and Geophysical data analysis Services (FAGS). Figures concerning the yearly expenses can be found in the annual reports (see management section on the WEB site).

The applicants should submit a business plan including:

- a presentation of the Director and his staff;
- a budget;
- a planning of activities for the following years;
- a formal commitment of the responsible of the Institute.

C.C.TSCHERNING,
IAG Secretary General.

Preliminary program and Draft Council Agenda of IAG for IUGG XXIV General Assembly Perugia

IAG General Assembly at IUGG XXIV 2007, Perugia Italia, July 2-13, 2007.

Oral Sessions take place 9:00 – 12:30 and 14:00 – 17:30, except when there is a Union Lecture or EC meeting. Then the session starts at 9:30.

Poster sessions on the same day or days from 18:00 to 20:00. Posters will only be up 1 day (evening).

Union lectures and 2 (of 3) EC meetings: 8:30 – 9:30.

All meetings are expected to take place at the Department of Education, (Facolta de Scienze della Formazione), Piazza G.Ermini, 1, close to the center of Perugia. Hopefully the IAG office will be at the same place.

IAG Reception will be in the form of at tour to Spoleto by bus. Max. number: 200.

IAG Dinner at “La locanda dei Golosi”, <http://www.lalocandadeigolosi.it> (TBC).

ICCT: Commission meeting.

SC 3.1 (Earth Tides) Sub-Commission meeting, Thursday 5, 17:00 – 19:00.

JGS001 Ocean Circulation and contributions from new satellite missions (IAPSO)

JGS002 Global sea-level change: Altimetry, GNSS and tide gauge measurements (IAPSO)

JGS003 Earthquake and Volcano Geodesy (IASPEI, IAVCEI)

JGS005 Observations of the Cryosphere from Space (CCS, IAMAS, IAPSO, IAHS, CliC)

Week 1	Monday 2	Tuesday 3	Wednesday 4	Thursday 5	Friday 6	Saturday 7
Lecture	Union		EC	Union	EC	
Week 1 Morning	EC	GS001	GS005	GS001	GS004	
Week 1 afternoon	Council Opening	GS002	GS002	GS002	GS003	
Posters		U 03: Global Observations GS002	GS001	JGS001	JGS002	
Evening		GS001+002	GS002	GS004	GS004.	
		GS001+002	GS001+002	GS001+002	GS002+003	
			+005	+004	+004	
	IUGG Opening		IAG Reception			
Week 2	Monday 9	Tuesday 10	Wednesday 11	Thursday 12	Friday 13	
Lecture		Union			Union	
Week 2 morning	GS003	JGS003				
Week 2 afternoon	JGS005	ICCT (TBC)				
Posters	GS003	JGS003				
Evening	JGS005	Closing (16-17)				
	Council GS003 +JGS005	JGS003				
	IAG Dinner	New EC (or 14:00-16:30).				

TBC = To be confirmed.

last update 2007-03-27

Draft COUNCIL AGENDA 2007.

Monday, July 2, 2007, 14.30 - 15.00

Subject and Responsible:

1. Welcome, greetings to delegates. GB/CCT
2. Perugia Organisation GB/CCT
3. Change of Statutes and By-Laws (KPS)
4. Appointment of Audit Committee CCT
5. Appointment of Resolution Committee GB
6. IAG Budget Proposal 07 - 11 CCT
7. Information on IAG awards GB (Levallois Medal, Bomford Prize)
8. Review of election procedures and results. FS (This is followed by the opening session and a reception).

Monday, July 9, 2007, 19 - 21.

Subject and Responsible

1. Report of audit committee. AC
2. IAG Budget Approval. CCT
3. IAG Representatives. CCT
4. Venue of Scientific Assembly 2009. GB.
5. Adoption of changes to statutes and by-laws. KPS/GB.
6. Approval of continuation or establishment of Inter Commission Committees and/or projects.
7. Resolutions. GB

GB=Gerhard Beutler, CCT=C.C.Tscherning, KPS=Klaus-Peter Schwarz, FS=F.Sansò

IAG BUREAU

Agenda of opening and closing sessions and draft agenda of EC meeting in Perugia

IAG – Opening Session

Draft Program

Time: Monday, July 2, 2007, 16.00-17.45.

Place: Dep. of Education, Main Hall, Perugia.

1. Report of the IAG president (G.Beutler - 20 min)
2. Report of the IAG General Secretary (C.C. Tscherning - 10 min)
3. Commission, ICCT, COB and GGOS Highlights (all Commission and presidents of ICCT, COB and GGOS - 5 min each)
4. Report of the Editor-in-Chief of the JofG (W.Featherstone - 5 min)
5. Presentation of the new Executive Committee (M.Sideris. - 3 min)
7. Presentation of the Levallois Medal to C.C.Tscherning.(Laudatio by F.Sansò -5 min)
8. Best Young Author Award 2006 (G.Beutler, 3 min).
9. Presentation of the Bomford Prize to M. Furuya (G.Beutler) and Bomford Lecture by the recipient (15 min)
10. Perugia Organisation and social events (5 min C.C.Tscherning, F.Radicioni).

IAG – Closing Session

Draft Program

Time: Tuesday July 10, 2007, 16.00-17.30

Place: Department of Education, Main Hall. Perugia..

1. Report on the Scientific Program (Convenors, 10 persons, each 3 min)
2. Resolutions (M.Sideris, 15 min).
3. Presentation of new Fellows. (G.Beutler, 5 min).
4. Inaugural Speech by the new President (M.Sideris, 10 min).
5. Closing remarks. (G.Beutler. - 5 min)

IAG - Executive Committee (1.rev) Draft Agenda Perugia
Department of Education, Room 5.

Time: Monday, July 2, 2007, 9.00 - 12.30.

1. Adoption of agenda.
2. Perugia Organisation. (CCT)
3. Proposal for members of the audit committee. (CCT)
4. Nomination of the members of the resolution committee. (GB)
5. New fellows (CCT).
6. Result of elections and the handling of ties. (FS).
7. Election of Commission Vice-Presidents and president ICCT (GB/MS).
8. Venue of IAG Scientific Assembly 2009 (CCT).
9. Election of IAG representatives to external bodies. (CCT)
10. Sponsorship of Symposia. (Material must be received beforehand, otherwise it will be send out for e-mail vote to the new EC) and IAG Symposia Rules (CCT/FS)
11. GGOS Status. (MR)
12. New statutes and by-laws.(KPS/GB).
13. Council meeting agenda and opening session (same afternoon).
14. Collaboration with FIG⁺ (CR).
15. Collaboration with ION (RN)

Time: Wednesday, July 4, 8.30-9.30.

16. IAG Budget. (CCT).
17. Status of Handbook and Travaux (JA) .
18. Revision of rules for Bomford prize and Levallois medal (see minutes of last EC meeting).
17. Report of the Committee of Developing Countries. (CM+LF).

Time: Friday, July 6, 8.30-9.30.

19. JofG Editorial Board proposal. (WF).
20. Audit Committee report.
21. Resolution Committee Report.
22. ICET proposal.

Last change 2007-05-23 by cct.

Draft programs for opening and closing sessions are

<http://www.gfy.ku.dk/~iag/open07.htm>

<http://www.gfy.ku.dk/~iag/closing07.htm>

IAG BUREAU

IAG National Correspondent of Chile

The new national correspondent for Chile is Mr. Rodrigo Maturana Nadal, Head of Engineering Division, Military Geographic Institute of Chile.

RODIGO BARRIGA VARGAS
Colonel, Director of the Military Geographic Institute of Chile
President of the National Committee of the IUGG

GNSS position at University of Calgary



Assistant/Associate Professor in GNSS

The Department of Geomatics Engineering, in the Schulich School of Engineering at the University of Calgary, invites applications for the position of Assistant or Associate Professor (tenure track) in

GNSS, effective January 1, 2008. A PhD in geomatics or telecommunications engineering is highly desirable.

Demonstrated expertise in Global Navigation Satellite Systems (GNSS) is required. Research expertise in one or more of the following areas is desirable: CDMA signal processing and enhancements, GNSS software receiver design and implementation, satellite and ground-based augmentation systems including, tight and ultra-tight GNSS-INS integration, indoor use of GNSS, and advanced estimation and optimization methods as applied to positioning and navigation. The position is expected to interface with all related disciplines of geomatics engineering and will conduct both teaching and research in satellite-based navigation and related areas. 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 Department of Geomatics Engineering is actively involved in all aspects of geomatics engineering and comprises 21 faculty members, some 90 graduate students and 50 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

Closing date: **15 August 2007**

MS. MARCIA INCH
Administrative Manager, University of Calgary

Used cartographic equipment

Used Drumscanner / Filmplotter equipment from german / swiss cartographic departments / companies

manufacturer: Lüscher AG Switzerland

- | | |
|---|--------------|
| 1. Lüscher LSP 220 -> scan/filmplot area: 2180 x 1180 mm
scan resolution 25 – 1600 dpi, build 1995, refurbished 1999, good condition | 28.000,- EUR |
| 2. Lüscher LSP 120 -> scan/filmplot area: 1180 x 1180 mm
scan resolution 25 – 1600 dpi, build 1996, nearly new | 32.000,- EUR |

warranty: 1 year for parts

Service: available by LaserScan Ltd Cambridge

ask for more infos: email-> Steinmann@print4gmbh.de

additional cost:

installation and training (5 days) 4.000,- EUR

packaging 1.600,- EUR

shipping / flight / hotel etc. it depends

storage location: DE-72770 Reutlingen (nearby Stuttgart)

owner/dealer: [print4gmbh](http://print4gmbh.de) / Adolf-Kolping-Str. 7 / DE-72770 Reutlingen

Tel: 07121 918 675 email: Steinmann@print4gmbh.de

responsible: Norbert Steinmann

Meeting Announcements

Early Registration Deadline for IUGG General Assembly

Please note that registrations are now being accepted, the form is available on line. The deadline for early registration and accommodation bookings is **30 April**. That deadline is firm and cannot be changed.

The Website for the Perugia General Assembly: www.iugg2007perugia.it.

EUREF 2007 Symposium

The EUREF 2007 Symposium of the IAG Reference Frame Sub commission for Europe (EUREF) will be held 6th to 9th June 2007 in London.

More information at <http://www.ordnancesurvey.co.uk/oswebsite/gps/euref2007/>.

JOÃO AGRIA TORRES
Chairman of EUREF

GNSS Base Station Installation and Data Processing Training Course

Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi, Kenya, 30 July - 10 August 2007

GNSS/GPS data users have greatly increased in the last few years. However in Africa there is lack of GNSS base stations that could enhance the application and use of GNSS data. Furthermore in Africa, there is no uniform geodetic reference system making maps not compatible and sharing of map information difficult. To overcome these difficulties the AFREF project was initiated by the United Nations for Economic Commission for Africa (UNECA) in 2005.

When fully implemented, AFREF will consist of a network of continuous, permanent GNSS/GPS stations such that a user anywhere in Africa would have free access to the generated data.

The purpose of the course is to provide technical skills in base station installation, data handling and dissemination and precise analysis using scientific GNSS processing software. The qualifying participants shall be Land surveyors, Geodesist, Engineers, Cartographers from African countries with experience in Global Navigation satellite System (GNSS) technologies. Tuition is free but participants have to meet their traveling and accommodation costs.

Course contents

- Introduction to GNSS and IGS data and products
- Reference systems and frames
- Requirements of Continuously Operating Reference GNSS Stations (CORS)
- Operation of AFREF project
- Theory of GPS data processing
- Training with Scientific software processing

Application deadline: Applications should reach RCMRD at contacts given below latest by 16 July 2007

Contact: Dr. H.O. Farah/Mr. C.M.Kamamia
Regional Centre for Mapping of Resources for Development
P. O Box 632-00618 Nairobi Kenya
Tel.+254-20-8560227/0265/1775, Fax. +254-20-8561673/3767

Email: farah@rcmrd.org / muyack@rcmrd.org ; Web: www.rcmrd.org

Symposium on Terrestrial Gravimetry: Static and Mobile Measurements

St. Petersburg, Russia, 20 - 22 August 2007.

The meeting is being organized by Leonid Vitushkin, Chair of the Study Group 2.1 (Comparison of Absolute Gravimeters) of Commission 2. The symposium is officially sponsored by the IAG, co-sponsored by the Institute of Earth Physics of the Russian Academy of Sciences, Moscow; and the BIPM.

The topics of the conference will include the design and investigations of the measuring instruments for the absolute and relative measurement of the gravity field, their applications for terrestrial, shipboard and airborne platforms, and in the metrology of gravimetry. Traditional free-fall, superconducting, and spring-type gravimeters, gradiometers, and new technologies, such as based on atom interferometry, will be especially welcome, as will results and methodologies of static and mobile campaigns, as well as current and future networks. Geophysical interpretation of results and connection with space-borne systems are of limited interest, since the emphasis is on terrestrial (including airborne) instrumentation and methods to extract gravity field measurements for a variety of applications.

More details about the symposium will soon be available on the website of the meeting. Contact person of the Local Organising Committee is Mrs. Margarita Grishina (mgrishina@eprib.ru).

CHRISTOPHER JEKELI AND
LEONID VITUSHKIN

First International Summer School on Global Satellite Navigation Systems: A Worldwide Utility

2-9 September 2007, Berchtesgaden, Germany

This summer school will provide key information, fresh ideas, practical advice such as:

Satellite Navigation:

- History of GPS
- Basics of Satellite Navigation
- GNSS Under Development and Modernization
- Constellations and Orbit Determination
- Clocks in Satellite Navigation
- Frequencies, Signals and Signal Processing
- GNSS Receiver Technology
- Positioning & Navigation Algorithms and Processing
- GNSS Indoor Positioning
- GNSS/INS Sensor Fusion
- Perspectives of the Future

Business and System Engineering

- Introduction to Project Management
- Managing and Funding International Projects
- Seminar and Student Project Work/Competition

Applications of Satellite Navigation

- Aviation
- Marine
- Land
- Surveying

Registration is possible on <http://www.munich-satellite-navigation-summer-school.org>.

“Scientific and Fundamental Aspects of the Galileo Programme”

2-4 October 2007, Toulouse, France.

An international colloquium on fundamental aspects and scientific applications of Galileo and GNSS will be held in Toulouse in October 2007. ANAE (Académie Nationale de l’Air et de l’Espace), Bureau des Longitudes, Académie de Marine and ESA (European Space Agency), are the main instigators of this colloquium meant to contribute to the 50th anniversary celebrations of the launch of Sputnik.

The colloquium will address three major issues:

- The fundamental aspects of navigation by satellites and Galileo: geodetic and temporal reference frames, relativistic frame, on board and ground clocks, orbits, radiative environment in orbit, intersatellite links, fundamental aspects of propagation, tropospheric and ionospheric corrections, calibration and validation, relations with international organisations (BIPM, IGS).
- Scientific applications in meteorology, geodesy, geophysics, space physics, oceanography, land surface and ecosystem studies, using either normal or reflected signals, differential measurements, phase measurements, occultations, in real or delayed modes, using receivers placed on the ground, in airplanes or in scientific satellites.
- Scientific developments in physics and dealing with future systems, particularly in testing fundamental laws, in astronomy, in quantum communication, and in developing clocks or experiments based on GNSS.

This colloquium intends to bring together leading members of the European scientific community and their international partners. One of its aims is to propose to Galileo partners means of enhancing the scientific use of Galileo and to contribute to GNSS development based on scientific approaches.

Contact Points:

Organisation Committee: Martine.Segur@anae.fr

Scientific Committee: Clovis.de.Matos@esa.int

SOURCE: [HTTP://WWW.CONGREX.NL/07A06/](http://www.congrex.nl/07A06/)

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

50th 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
<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:

Mid-February 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

Papers Published in *Advances in Space Research*, a fully refereed journal.

A. JANOFSKY
Associate Director
COSPAR

16th International Workshop on Laser Ranging – Initial Announcement

Poznan Poland, September 22-26, 2008.

The Space Research Centre of the Polish Academy of Sciences has confirmed that the next International Workshop on Laser Ranging will be held in Poznan Poland (15 km from the Borowiec SLR station) on September 22-26, 2008. We ask you to reserve this date on your calendars and plan to attend what will surely be another exciting laser workshop.

CAREY NOLL
Crustal Dynamics Data Information System (CDDIS)

IAG Sponsored Meetings

24th General Assembly of the IUGG

2 - 13 July 2007, Perugia, Italy

The XXIV IUGG General Assembly will be held in Perugia from July 2nd to July 13th 2007. The conference events (sessions, workshops, lectures, symposia) will take place on the campus of the University of Perugia. The poster session and special events will take place in the historical center of the city. The deadline for early bird registration is April 15, 2007. The website of the Assembly is <http://www.iugg2007perugia.it/>.

Symposium on Terrestrial Gravimetry: Static and Mobile Measurements

20 - 22 August 2007, St. Petersburg, Russia.

The topics of the conference will include the design and investigations of the measuring instruments for the absolute and relative measurement of the gravity field, their applications for terrestrial, shipboard and airborne platforms, and in the metrology of gravimetry. Traditional free-fall, superconducting, and spring-type gravimeters, gradiometers, and new technologies, such as based on atom interferometry, will be especially welcome, as will results and methodologies of static and mobile campaigns, as well as current and future networks. More details about the symposium will soon be available on the website of the meeting.

“Scientific and Fundamental Aspects of the Galileo Programme”

2-4 October 2007, Toulouse, France

An international colloquium on fundamental aspects and scientific applications of Galileo and GNSS will be held in Toulouse in October 2007. ANAE (Académie Nationale de l’Air et de l’Espace), Bureau des Longitudes, Académie de Marine and ESA (European Space Agency), are the main instigators of

this colloquium meant to contribute to the 50th anniversary celebrations of the launch of Sputnik. For more information please visit <http://www.congrex.nl/07A06/>.

IAG Related Meetings

WMSCI 2007

8-11 July 2007, Orlando, Florida, USA

The 11th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2007) will take place in Orlando, Florida, USA, from July 8-11, 2007. WMSCI 2007 is an international forum for scientists and engineers, researchers and consultants, theoreticians and practitioners in the fields of Systemics, Cybernetics and Informatics. The topic of the conference is related to the area of Geographical Information Systems. March 1st is the new deadline for papers/abstracts submissions and Invited Sessions Proposals for WMSCI 2007. Visit the conference homepage at <http://www.iis-cyber.org/wmsci2007> for further details.

CITSA 2007

12-15 July 2007, Orlando, Florida, USA

The 4th International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA 2007 jointly with the 5th International Conference on Computing, Communications and Control Technologies: CCCT 2007 will take place in Orlando, Florida, USA, from July 12-15, 2007. CITSA '07 is an International Multi-Conference being organized with the purpose of providing researchers, practitioners, developers, consultants, and end-users of computerized, communications and/or control systems and technologies, as well as their industrial and social applications in the private and the public sectors, an opportunity to join in a common place sharing experience and knowledge. The conference homepage is at <http://www.info-cyber.org/citsa2007>.

GNSS Base Station Installation and Data Processing Training Course

Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi, Kenya, 30 July - 10 August 2007

GNSS/GPS data users have greatly increased in the last few years. The AFREF project was initiated by the United Nations for Economic Commission for Africa (UNECA) in 2005. The purpose of the course is to provide technical skills in base station installation, data handling and dissemination and precise analysis using scientific GNSS processing software. The qualifying participants shall be Land surveyors, Geodesist, Engineers, Cartographers from African countries with experience in Global Navigation satellite System (GNSS) technologies. Tuition is free but participants have to meet their traveling and accommodation costs. The RCMRD website is www.rcmrd.org.

4th AOGS Assembly

30 July - 4 August 2007, Bangkok, Thailand

Having hosted its Scientific Assemblies annually since 2004, Asia Oceania Geosciences Society (AOGS) Assembly has become an ideal forum for addressing to and interacting with geoscientists from all over Asia and Oceania as well as those from U.S. and Europe. There will also be a special GPS/VLBI/SLR Networks and Geosciences Applications session in AOGS Assembly 2007. The deadline of submitting abstract is 15 March, 2007. For details, please visit <http://www.asiaoceania.org/aogs2007/>.

First International Summer School on Global Satellite Navigation Systems: A Worldwide Utility

2-9 September 2007, Berchtesgaden, Germany

This summer school will provide key information, fresh ideas, practical advice such as Satellite Navigation, Business and System Engineering and Applications of Satellite Navigation. Registration is possible on <http://www.munich-satellite-navigation-summer-school.org>.

ION GNSS 2007

24-25 September 2007, Fort Worth, Texas, USA

The 20th International Technical Meeting of the Satellite Division of the Institute of Navigation will be held at Fort Worth, Texas, USA. Abstracts should be submitted electronically via ION's Web site no later than March 7, 2007. Program information and further details are found on the webpage of the meeting <http://www.ion.org/meetings/#gnss>.

International Symposium on Strong Vrancea Earthquakes and Risk Mitigation

4-6 October 2007, Bucharest, Romania

International Symposium on Strong Vrancea Earthquakes and Risk Mitigation organized by the CRC 461 "Strong Earthquakes – A Challenge for Geosciences and Civil Engineering" (Universität Karlsruhe, Germany) and the "Romanian Group for Strong Vrancea Earth-quakes" (RGVE), Bucharest will take place between 4-6 October 2007, Bucharest, Romania. For further information and registration please visit <http://www-sfb461.physik.uni-karlsruhe.de/>.

International Symposium "Modern Technologies, Education and Professional Practice in Geodesy and Related Fields"

9-10 November, Sofia, Bulgaria

This International Symposium with a special session for young specialists and students will take place in Sofia on November 09 - 10 November 2007. This symposium is the sixteen in its turn among the annual international symposia with exhibition, organised by USLMB so far under the auspices and with the sponsorship of the three international surveying organisations: FIG, ISPRS, ICA and also EGoS and CLGE and local and international institutions. For up-to-date information please, visit the Symposium website at: <http://geodesy.fnts-bg.org/>.

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

50th Anniversary Assembly

13 - 20 July 2008, Montreal, Canada.

The 50th 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.cospas2008.org/>.

16th International Workshop on Laser Ranging

22-26 September 2008, Poznan, Poland

The next International Workshop on Laser Ranging will be held in Poznan Poland (15 km from the Borowiec SLR station) on September 22-26, 2008.

IAG Sister Societies' General Assemblies

XXXth FIG General Assembly and Working Week

13-17 May 2007, Hong Kong SAR, China

The XXX FIG General Assembly and Working Week will be organised in Hong Kong 13-17 May 2007. The theme of the Working Week is Strategic Integration of Surveying Services. Conference web site is open at: www.figww2007.hk.

XIIIth ISM Congress

September 24-28, 2007, Budapest, Hungary

The XIIIth Congress of International Society for Mine Surveying (ISM) will be held at Budapest University of Technology and Economics, Budapest, Hungary. The preliminary program is available from the ISM website: <http://www.ism.rwth-aachen.de>.

Reports

[Quadrennial National Reports](#) (Algeria, Hungary, Spain and Switzerland) and [IAG Entities Quadrennial Reports](#) (PSMSL, IGeS and COB) prepared up to end of May 2007 are placed on the IAG website (see <http://www.iag-aig.org> -> Publications -> National Reports and Home -> Publications -> IAG Travaux).