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The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch* (COB) of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB (newsletter@iag-aig.org). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

Books for review are the responsibility of:

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General Announcements

Minutes from IAG EC and IAG Council, Perugia 2007

All the Minutes and Appendices mentioned below are available from the following web address:
http://www.gfy.ku.dk/~iag/minutes_perugia.htm

*Minutes of the first IAG - Executive Committee,
Dept of Education, Room 4, Perugia. Monday, July 2, 2007, 9:00-12:30.*

Present:

President:	G. Beutler
Secretary General:	C. C. Tscherning
Vice president:	M. Sideris
President of commission 1.	H. Drewes
President of commission 2.	C. Jekeli
President of commission 3.	V. Dehant
President of commission 4.	C. Rizos
Members at large:	L. P. Fortes and C. Merry
Service representatives:	R. Neilan, M. Rothacher, H. Schuh
President of the COB	J. Adam

Past president:	F. Sanso
Past past president:	K-P Schwarz

Present without the right to vote
Future EC members: Steve Kenyon
Assistant Secretary General: Ole B. Andersen

1. Adoption of agenda

G. Beutler presented the agenda with a few additions. The agenda was adopted

2. Perugia Organisation

C.C. Tscherning presented the IAG organisation in Perugia and the changes to the existing program.

IAG will publish proceedings of papers from the geodesy sessions. Review will be according to the rules of J. Geodesy. At least 100 persons should buy the proceedings in order to balance the budget for IAG.

3. Proposal for members of the audit committee

The IAG council will elect 3 members of the audit committee. National representative from Poland, Portugal and Norway will be proposed to the IAG council as members of the audit committee.

4. Nomination of the members of the resolution committee

The IAG president informed the EC that the IAG resolution committee would consist of M. Sideris, (chair), C. Boucher and D. Blitzkow. Sideris, who was asked to serve in this capacity before the assembly, had already accepted to chair the committee. Boucher and Blitzkow were ready to serve, as well.

5. New fellows

C.C. Tscherning presented the list of new fellows, which had been distributed by email prior to the meeting. The list was amended to take into account that some of the nominated persons had not submitted reports to the Travaux and that one more proposal was made at the meeting.

The list of new fellows 2007 :

Executive Committee: C. Merry, L. Fortes, M. Rothacher, H. Schuh,

Services:

ILRS: M.Pearlman, C.Noll.

IGS: A. Moore,

BGI: R.Biancale.

Commission 1: Altamimi, J. Torres, M. Craymer, R. Wonnacott, R. Dietrich, S. Y. Zhu, J. Ihde, K. Heki,

Commission 2: U. Marti, M. Verroneau, M. Scheinert, M. Pacino, L. Vitushkin, M. Kuhn, D.

Crossly, J.Huang.

Commission 3: M. Poutanen

Commission 4: D .Grejner-Brzezinska, X. Deng, Y. Gao, J. Wang, .

ICCT: P. Xu, J. Kusche, J. Yu

Communication and Outreach Branch: Z.Rozsa, G. Toth

ISO TC: L.Hothem

GGOS: H.-P Plag.

J.of Geodesy: P. Novak, H. Sun

6. Result of the IAG elections 2007 and the handling of ties

FS presented the final report (available to the EC Bureau in written form) of the IAG nomination committee of new members of the IAG-EC. The committee was appointed at the IAG scientific meeting in Cairns. It consisted of L P Fortes, R. Rummel, C. Wilson, and F. Sanso, who chaired the committee).

The election procedure will be modified in such a way that the final list of candidates will contain one name only once. The candidates must choose the position they favour, in case of double nomination.

A new paragraph should be added to the By-laws to resolve the problem of ties: It was proposed that the ties should be resolved by the Council at its first meeting.

7. Venue of IAG Scientific Assembly 2009

The following four candidate countries were presented by CCT:

USA (Fairbanks, Alaska), Argentine (Buenos Aires or Mendoza), Turkey () and Columbia, C. C. Tscherning presented a summary of the responds to the questionnaires send out by IAG. The decision will be made by the Council.

8. Appointment of IAG representatives to external bodies

The EC appointed H. Drewes as IAG representative to SIRGAS.

The EC should also appoint an IAG representative to ABLOS.

The IAG EC 2007-2011 should make a list of IAG representatives to the IAG services and to other Organizations. This list should then be approved by the new EC by e-mail.

9. Sponsorship of Symposia

The COSPAR 2008 meeting will be sponsored by IAG.

10. GGOS Status and ToR

M. Rothacher presented the GGOS activities for the period 2005-07 and made suggestions for revised ToR (sent by email to the EC members). The changes to the ToR should reflect the new Statutes and By-laws for IAG (pending on approval at the EC meeting of July 9, 2007) with GGOS as a component of IAG, and allow for new entities of GGOS. The ToR should be further developed over the upcoming two years.

The EC unanimously approved the revised ToR for GGOS. Should the IAG ByLaws be approved by the Council, it is expected that (according to ByLaw 15) Markus Rothacher will be appointed as GGOS Chair for 2007-2011. He could then withdraw to serve as services' representative in the EC (and serve as GGOS Chair in the board). Should this happen, Harald Schuh should be asked to fill the position as services representative. The new EC will have to handle this case.

11. New Statutes and By-laws

K.-P. Schwarz presented the report of the IAG Statutes and By-law review committee. The report on proposed changes to the IAG statutes and by-laws had been distributed via email in April, 2007, and a summary was distributed at the EC meeting. Three motions were made and adopted; Véronique Déhant will make corresponding motions in the Council:

``The COB president is a voting member of the EC".

``Ties in the elections of new EC officers should be resolved by the IAG Council at its first meeting."

``The old name `Geodynamics and Earth Rotation' of Commission 3 should be retained (instead of changing the name to ``Geodynamics" only, as proposed in the distributed version of the statutes and bylaws)".

The three motions found clear majorities in the vote.

12. Council meeting agenda and opening session

C. C. Tscherning presented the council meeting agenda. FS will present the problems with the election procedure. The changes to the Statutes and by-laws will also be presented at the meeting. C. C. Tscherning presented the agenda for the opening session.

13. New IAG logo

The IAG Bureau proposed a new IAG logo based on four proposals developed by the CoB. The Bureau proposed to select one of the four candidates. This proposal was unanimously adopted by the EC (see attachment 1 of these minutes).

14. Collaboration with FIG

C. Rizos reviewed the existing collaboration with FIG. The EC recommended that the collaboration with FIG should be continued and further developed in the 2007-2011 period (e.g., by organizing joint symposia, by getting the National survey institutions into GGOS, etc.). The IAG-EC proposed that C. Rizos and R. Neilan should provide the liaison with FIG (to be approved by the new EC).

15. Collaboration with ION

The IAG-EC proposed R. Neilan and C. Rizos to provide the liaison with ION.

*Minutes of the second IAG - Executive Committee,
Dept of Education, Perugia. Time: Wednesday, July 4, 2007, 8:30-9:30*

Present: Same as for the first meeting except V.Dehant, who was replaced by G.Jentzsch.

16. IAG Budget

CCT presented the IAG budget. He said that the presented budget, which was adopted by the EC, was presented to the audit committee (with preliminary positive feedback), will have to be approved by the Council.

17. Status of Handbook and Travaux

J. Adam presented the status of the Handbook 2008. The work will be shared by the new IAG secretary H. Drewes and the COB. The deadline for receiving the material should be the 1 October, so that the 2008 Handbook can be published as the first volume in 2008. The historical chapter will be coordinated by C. C. Tscherning. K-P. Schwarz will provide the revised Statutes and By-Laws after a final editing and screening process.

The Travaux will be published on the IAG web-page. 60-70% of the contributions have already been received.

18. Revision of rules for Bomford prize and Levallois medal (see minutes of last EC meeting),

The rules for the Bomford prize selection procedure will be changed in the following way: ``A selection committee will be appointed consisting of the presidents of the IAG commissions and two other members to be appointed by the IAG Bureau. Based on the material submitted by the National committees each member of the selection committee will rank the nominations and select the candidate to be awarded the Bomford prize. The decision (not the detailed ranking) will be communicated to all National Committees and to the selected candidate. The prize may be withheld if, in the opinion of the selection committee, there is no sufficiently qualified candidate available. ``

The rules for the Lavellois medal will not be changed.

19. Report of the Committee of Developing Countries.

L. P. Fortes reviewed the report of the committee of Developing countries (prepared by Ch. Merry and him) mainly focused on AFREF and SIRGAS. An extensive list of contacts for Latin America and Africa has been established. SIRGAS has been particularly successful with 6 central American countries out of 7 integrated into SIRGAS.

*Minutes of the third IAG - Executive Committee
Dept of Education, Perugia. Friday, July 6, 2007*

Present: the same members as at the first meeting.

20. Appointment of Commission Vice-Presidents and President of ICCT

M. Sideris presented the new commission vice presidents and presidents of the ICCT.

C1: Harald Schuh (possibly will be replaced, see agenda item 10 above)

C2: Pieter Visser

C3: Richard Gross

C4: Dorothea Grejner-Brzezinska

ICCT: Nikos Sneeuw, Pavel Novak

21. JofG Editorial Board proposal.

The EC approved the new Editor-in-Chief: R. Klees, The Netherlands. The proposal for the new board members was not available, and the new EC must approve the board by e-mail vote when it becomes available.

22. Audit Committee report

The Audit committee have examined the IAG finances, and they have approved the finances and the IAG budget.

The treasurer of IUGG should be informed, that geodesy is very much an interdisciplinary science and that many geodesists register to one of the other organisations. IUGG should provide a slot for a secondary affiliation.

23. Resolution Committee Report.

M. Sideris presented the list of resolutions to be presented to the IUGG.

The EC supports a resolution on GGOS and two concerning IAU resolutions about time and reference systems and seeks the support for these resolutions by IUGG. VD should rerepresent the IAG at the IUGG EC meeting on July 10 because this IUGG EC Meeting and the IAG Closing Session are taking place simultaneously. Véronique accepted this responsibility. Moreover, one IAG resolution was presented (thanking the IAG Central Bureau).

This resolution was supported by the IC.

24. ICET proposal

The IAG had received proposals from ECET in Luxemburg and of the University of French Polynesia, Tahiti to host the ICET office.

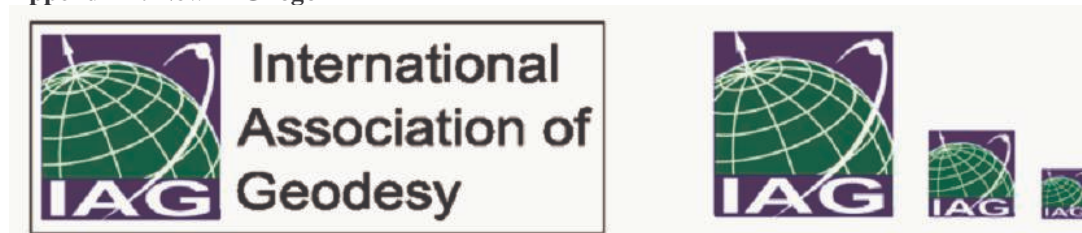
The directing board of ICET has proposed the University of French Polynesia with Chairman J. P. Barriot. The EC endorsed the proposal and therewith selected the latter as the new ICET.

25. Appointment IAG representatives.

The EC decided that the IAG representatives to services and other bodies should be appointed by the new EC through email voting, or at their first meeting.

Minutes taken by Ole B. Andersen and revised by C.C.Tscherning.

Appendix 1. New IAG logo



Minutes of the first IAG Council meeting

Dept of Education, Room 3 Perugia. Time: Monday, July 2, 2007, 14.00 -15.30

A total of 27 countries were represented.

The list of representatives and countries present at the meeting is found in Appendix 1.

1) Welcome

The IAG president G. Beutler welcomed the representatives from 27 countries participating at the meeting.

2) Perugia Organization

C. C. Tscherning presented the IAG program for the IUGG 24th General Assembly

C. C. Tscherning informed the Council that proceedings from the geodesy sessions will be published by Springer Verlag, and that at least 100 participants should sign up for the proceedings in order to avoid a deficit (concerning the publication of proceedings) for IAG.

3) Appointment of Audit committee

The national representatives from Poland, Norway and Portugal were elected as the members of the Audit committee.

4) Appointment of resolution committee

M. Sideris, (chair-Canada), C. Boucher (France) and D. Blitzkow (Brazil) were elected by the IAG Council for the resolution committee. Resolution should be carried forward to IAG and IUGG on July, 10th at the latest.

5) IAG Budget proposal 07-11

C. C. Tscherning presented the budget for IAG for the period 2007-2010.

6) IAG awards: Levallois Medal, Bomford Prize

The Levallois medal 2007 is presented at the opening ceremony to C. C. Tscherning, for his outstanding contribution to geodesy. F. Sanso reads the Laudadio.

The Guy Bomford price is presented at the opening ceremony to Dr Masato Furuya for his outstanding and very broad work in geodesy and the geophysical interpretation of data and result.

7) Review of election procedures and new IAG EC members

FS presented the final report of the IAG nomination committee. (L P Fortes, R. Rummel, C. Wilson and F. Sanso - chair)

The new members of the IAG-EC will be.

President: M. Sideris

Secretary General: H. Drewes

Vice president:	C. Rizos
President of commission 1.	Z. Altamimi
President of commission 2.	Y. Fukuda
President of commission 3.	M. Bevis
President of commission 4.	S. Verhagen
Members at large:	R. Wonnacott, K. Heki
Service representatives:	R. Neilan, S. Kenyon, M. Rothacher
President of the COB	J. Adam
Past president:	G. Beutler

The election procedure will in future be modified in such a way that the final nomination will contain only one name for each candidate and the candidates must choose in case of double nomination. Pending on the approval of the new Statutes and ByLaws, the GGOS Chair will be appointed as member of the new EC.

8) Change of Statutes and By-laws: Presentation and procedures

K.-P. Schwarz presented the list of changes to the IAG Status and By-Laws which had been distributed prior to the Council meeting. A summary of the changes was distributed for information.

V. Dehant (Belgium) proposed the motion: Change the name of Commission 3 from “Geodynamics” back to its old name “Geodynamics and Earth Rotation”. After a discussion the motion was carried by the Council.

V. Dehant (Belgium) proposed the motion: “The IAG COB president is a voting member of the EC. After a discussion the motion was carried by the Council.

V. Dehant (Belgium) proposed the motion: Delete the sentence on the committee adopting / rejecting abstracts for IAG meeting. After a discussion the motion was carried by the Council.

The three motions were carried by clear majorities.

Monday, July 9 , 18 – 20.

1. Report of Audit Committee.

The report (Appendix 1) was presented by B.Bye, and accepted by the Council.

2. Approval of Budget.

The budget (Appendix 2) was approved unanimously

3. IAG Representatives.

No representatives needed to be appointed

4. Venue of scientific assembly 2009.

CCT presented a comparison between the 4 proposed sites. After a clarification of various items like visa problems, a secret ballot was made. The result is: Argentine 13, Colombia 2, Turkey 11, USA 8. So the meeting will take place in Argentine.

5. Adoption of changes to statutes and by-laws.

The proposed changes in the IAG statutes and bylaws were presented by the committee chaired by KPS. The changes resulting from the previous Council meeting were adopted.

VD made the motion that in the case of a tie in the mail ballot the IAG president should break the tie (same procedure as in Council meetings).The motion was carried with one abstention (everybody else in favor).

VD made the motion that “persons being nominated for more than one position in the nomination process for the EC, have to make a choice for the position they want to apply for in the election”. The motion was also unanimously adopted.

A motion clarifying the mutual role of the national correspondent and the delegate (national correspondent votes in elections) was adopted with 1 vote against.

A motion was proposed to use the original name of Commission 4, which did not include the word “engineering”. The motion was adopted with 1 against, 4 abstained, all other in favor.

The statutes were then approved with all amendments the Council carried in its two meetings in Perugia with 1 vote against, all other in favor. The by-laws were approved unanimously.

The full text of the approved statutes and by-laws is included in Appendix 3.

6. Approval and continuation or establishment on Inter Commission Committee(s) and /or Projects.

The ICCT will continue with Nico Sneeuw as president and Pavel Novak as vice-president.

7. Resolutions.

A resolution with thanks to the host of the Central Bureau and to its staff was adopted by acclamation.

A resolution urging the operators of GNSS to put Laser retro-reflectors on the GNSS satellites was adopted unanimously.

The Council submitted three resolutions to the IUGG resolution committee. One resolution endorses IAU resolutions (taken a few years ago by IAU), the second endorses the GGOS and the third endorses the GTRS and ITRS. Should the resolutions not be adopted by IUGG, they will be sent to the Council (National Correspondents) for approval as IAG resolutions.

The full text of the resolutions is contained in Appendix 4.

8. AOB.

CCT was elected as Honorary Secretary General of IAG and GB as Honorary President of IAG.

Minutes taken at first Council meeting by Ole B. Andersen and at second meeting by C.C.Tscherning.

Revised Proceedings Order Form – IUGG 2007 Perugia

*International Association of Geodesy, Central Bureau
Copenhagen, July 13, 2007.*

As usual Proceedings will be published in the Springer IAG Proceedings Series. The chief editor will be the new IAG President, Professor M.Sideris, University of Calgary.

Manuscripts should be sent by e-mail as a pdf-file attachment to the convenors, following the instructions found in http://www.gfy.ku.dk/~iag/proc_instructions07.htm

GS001: H.Drewes, e-mail: drewes@dgfi.badw.de

GS002: C.Jekeli, e-mail: jekeli.1@osu.edu

GS003: V.Dechant, e-mail: veroniq@oma.be

GS004: C.Rizos, e-mail: c.rizos@unsw.edu.au

GS005: M.Rothacher e-mail: rothacher@gfz-potsdam.de

The deadline for submitting the manuscript is **September 1, 2007**. The page-limit is 8 pages.

The revised **order form** for ordering the proceedings at a discount price can be found both as a PDF-file and as a MS Word document at

http://www.gfy.ku.dk/~iag/orderform_rev1.pdf

http://www.gfy.ku.dk/~iag/orderform_rev1.doc (MS Word)

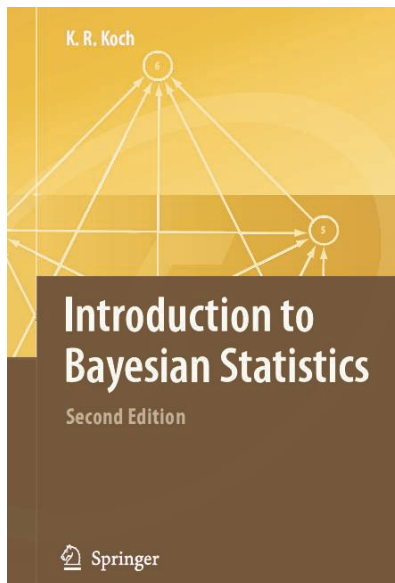
Please mail the signed order form as an attached PDF-file to iag@gfy.ku.dk before **September 1, 2007**.

ICET host

The IAG Executive Committee based on the recommendation by the Earth Tide Commission has selected the offer by The University of French Polynesia (Tahiti) as the future site of the International Center for Earth Tides (ICET). The new director of the ICET is Jean-Pierre Barriot.

C.C.TSCHERNING
Honorary Secretary General

Introduction to Bayesian Statistics – 2nd enlarged edition



The second updated and enlarged edition in English of the book 'Koch, K. R.: Introduction to Bayesian Statistics, Springer Verlag, 2007' with a price of 92.25 EUR has come out.

The first edition of the book appeared 2000 in German. The applications of Bayesian statistics given in the book are from geodesy and geophysics.

The Introduction to Bayesian Statistics (and edition) presents Bayes' theorem, the estimation of unknown parameters, the determination of confidence regions and the derivation of tests of hypotheses for the unknown parameters, in a manner that is simple, intuitive and easy to comprehend.

The methods are applied to linear models, in models for a robust estimation, for prediction and filtering and in models for estimating variance components and covariance components. Regularization of inverse problems and pattern recognition are also covered while Bayesian networks serve for reaching decisions in systems with uncertainties. If analytical solutions cannot be derived, numerical algorithms are presented, such as the Monte Carlo integration and Markov Chain Monte Carlo methods. (XII, 250 p., 17 illus., Hardcover, ISBN 978-3-540-72723-1)

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

Post-doctoral Research Position in Tahiti

Study of the distribution of the atmospheric water vapour in a tropical area from GPS data (Tahiti island)

The aim of this post-doctoral research is to model, from the GPS data acquired at the Geodesy Observatory of Tahiti, the delays of propagation of GPS signals caused by the dry and wet atmosphere, over the five to seven last years. We will correlate the obtained results with all the available weather data in order to obtain a daily 3D scan of the water vapour over the site of the Observatory. This will permit both physical studies of the atmosphere, and the elaboration of GPS daily correction models valid both in azimuth and elevation for a better determination of the vertical positioning of the Observatory.

Skills required: PhD in Geodesy/Geomatics, Geophysics or Applied Mathematics, good command of a programming language, fluency in French or English.

Duration: 16 months, starting October 2007, at the University of French Polynesia (Punaauiua, near Papeete).

Please email cover letter, resume and two references (all in pdf format) to: Pr Jean-Pierre Barriot, Head of the Geodesy Observatory of Tahiti, at barriot@upf.pf. Deadline for application: **August 15th, 2007**. No citizenship requirements, but the successful candidate will have to be approved by the Immigration Bureau of French Polynesia

JEAN-PIERRE BARRIOT

Full Professorship in 'Engineering Geodesy

Announcement of an open permanent position at the Institute of Geodesy and Geophysics, Faculty of Mathematics and Geoinformation, Vienna University of Technology

The applicant is expected to have outstanding academic credentials and an excellent track record of scientific accomplishments in the field of Engineering Geodesy focussing on modern sensor systems including geodetic data analysis and optimization methods. The successful candidate will be expected to make a significant contribution to the institute's research output, to provide leadership for researchers and postgraduate students and to undertake an appropriate teaching and administrative load. Special consideration will be given to the applicant's ability and willingness to establish collaborations with institutions working in related fields of research and the demonstrated ability to attract external project funding.

Knowledge of German is not a precondition; however we expect a successful candidate to acquire a working knowledge of German.

The applicant must meet the following requirements:

- an Austrian or equivalent foreign terminal academic degree in the field under consideration,
- an outstanding academic track record in research and teaching,
- pedagogic and didactic skills,
- leadership abilities,
- international working experience in the field of research.

The closing date for applications is **September 14, 2007**.

The Vienna University of Technology is committed to increase female employment in leading scientist positions. Qualified female applicants are encouraged to apply and will be given preference when equally qualified. Handicapped persons with appropriate qualifications are also expressly encouraged to apply.

Applications including a detailed curriculum vitae, description of scientific objectives, list of publications (indicating peer reviewed papers) and copies of the five most outstanding publications of the applicant should be sent to the Dean of the Faculty of Mathematics and Geoinformation, Getreidemarkt 9, 1060 Vienna, Austria. In addition, a CD-ROM with the complete application records should be attached. The official German version of this announcement can be found in <http://info.tuwien.ac.at/dekzent/Ausschreibungen.html>.

PROF. DR. HARALD SCHUH

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

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 / Adolf-Kolping-Str. 7 / DE-72770 Reutlingen

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

responsible: Norbert Steinmann

NORBERT STEINMANN
print4gmbh, Reutlingen, Germany

Meeting Announcements

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 are available on the website of the meeting <http://www.elektropribor.spb.ru/cnf/tg-smm2007/enfrset.html>. Contact person of the Local Organising Committee is Mrs. Margarita Grishina (symptg-smm@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>.

GEOSS in the Americas Symposium

Dear GEO Colleagues,

We are pleased to formally announce the GEOSS in the Americas Symposium, which will take place in *Magaratiba, Brazil on 17-19 September 2007*.

The purpose of the symposium is to increase understanding of GEOSS in the region, raise awareness about existing GEOSS in the Americas activities, strengthen partnerships, and advance a dialogue about opportunities,

capabilities, and requirements. Detailed information about the program, which will emphasize dialogue among experts from the region around specific aspects of GEOSS implementation, will be added in the coming weeks.

Hotel and registration information is now available on the following website.

http://www.dpi.inpe.br/GEOSS_Americas

For questions about the programme, please contact Peter Colohan at pcolohan@colohangroup.com. For questions concerning logistics and registration, please contact geoss_america@dpi.inpe.br. We look forward to seeing you in Brazil in September.

THE GEO SECRETARIAT
WWW.EARTH-OBSERVATIONS.ORG

ILRS Workshop "Challenges for Laser Ranging in the 21st Century"

25-27 September 2007, Grasse, France.

The International Laser Ranging Service (ILRS) will conduct a workshop September 25-27 in Grasse France. The theme of the workshop is "Challenges for Laser Ranging in the 21st Century" and will cover topics such as:

- Upcoming scientific challenges for SLR
- Future developments and collaborations in station, operations, and analysis
- SLR technological challenges
- Projects, missions, and stations – tomorrow and the next decade

The workshop will be preceded with a meeting of the ILRS Analysis Working Group and will close with the ILRS General Assembly. More information about the workshop and the ILRS can be found at:

http://www.obs-azur.fr/gemini/ecoles_colloq/colloques/ilrs2007/index.php?lng=en
<http://ilrs.gsfc.nasa.gov>

The workshop is sponsored by the ILRS, Observatoire de la Cote d'Azur, CNES and Groupe de Recherche en Géodésie Spatiale (GRGS), Ville de Grasse and Poleazur Provence, CNRS and GEMINI/UMR. The local organizers look forward to welcoming attendees to southern France for the workshop as well as a tour of the Calern Observatory, home to the Grasse laser ranging systems.

CAREY NOLL
Secretary, ILRS Central Bureau.

"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.frScientific Committee: Clovis.de.Matos@esa.intSOURCE: [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

IAG Sponsored Meetings**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 are available on the website of the meeting <http://www.elektropribor.spb.ru/cnf/tg-smm2007/enfrset.html>.

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2007 GEO/GGOS Workshop

5-6 November 2007, ESA-ESRIN, Frascati, Italy

The GGOS Contribution to GEOSS and an Observing System for Geohazards and Disaster Prevention: a GEO Workshop organized by the Global Geodetic Observing System (GGOS). The Workshop is scheduled during the 2007 International Geohazards Week in ESRIN, Frascati (Italy) on 5-9 November 2007. The 2007 International Geohazards Week is a GEO event that contributes to the International Year of Planet Earth. The official Workshop Web Page is hosted by the European Space Agency. For registration, hotel reservation, and abstract submission, please, visit this official page <http://earth.esa.int/workshops/2007Geohazards/>. Additional information on the Workshop background and program is provided at http://cheryl.nbmj.unr.edu/ggos/ggosws_2007/.

IAG Related Meetings**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>.

Baška GNSS Vulnerabilities Workshop

12-14 September 2007, Baška, Krk Island, Croatia

The international workshop Global Navigation Satellite Systems (GNSS): problems, vulnerabilities and solutions, jointly organised by the Royal Institute of Navigation Croatian Branch and the Institute of Engineering Surveying and Space Geodesy, University of Nottingham, UK, will be held in Baška, Krk Island,

Croatia 12-14 September, 2007. Submission deadline for presenters is set to 1 July, 2007. For more information on the GNSS Vulnerabilities Workshop is reachable through the webpage http://www.rin.org.uk/pooled/articles/BF_EVENTART/view.asp?Q=BF_EVENTART_286566

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/>.

SSTDM 07'

28 October 2007, Omaha, NE, USA

The 2007 International Workshop on Spatial and Spatio-Temporal Data Mining (SSTDM 07') will be held in cooperation with IEEE ICDM 2007 in Omaha, Nebraska, USA. The goal of the workshop is to bring together researchers, developers and practitioners in the field of spatial and spatio-temporal data mining together in order to identify current research foci, vital areas of need, and critical points of synergy. Selected papers will appear in the *GeoInformatica* journal as a special issue. The workshop webpage is at <http://spatial.nvc.cs.vt.edu/sstdm07>.

ACM GIS 2007

7-9 November 2007, Seattle, Washington, USA

The ACM International Symposium on Advances in Geographic Information Systems in 2007 (ACM GIS 2007) is the fifteenth event of a series of symposia and workshops that began in 1993 with the aim of bringing together researchers, developers, users, and practitioners carrying out research and development in novel systems based on geo-spatial data and knowledge, and fostering interdisciplinary discussions and research in all aspects of geographic information systems. The conference webpage is at <http://www.cise.ufl.edu/dept/acmgis2007/>.

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 sixteenth 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.cospar2008.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.

IGAG Sister Societies' General Assemblies

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>.

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 February 2007 and Journal of Geodesy 81/4). 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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