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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

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General Announcements

Galileo issue in Journal of Advances in Space Research *Scientific applications of Galileo Navigation Satellite System*

Papers are invited for a special issue in Journal of Advances in Space Research entitled "Scientific applications of Galileo and future Global Navigation Satellite Systems". Articles derived from presentations (oral or posters) at the 2nd International Colloquium on Scientific and Fundamental Aspects of the Galileo Programme, co-sponsored by COSPAR, are encouraged as well as any other original appropriate manuscripts. However, other any other original manuscripts will also be considered. Foreseen topics include: first results derived using GIOVE data, Galileo system development and technology (ground receiver and satellites), experiments related to fundamental physics, future use of current and future GNSS data for time and frequency transfer, relationship between internal GNSS times, atmospheric sciences (ionosphere, troposphere, climatology), geodetic and geophysical applications (terrestrial reference frame, plate tectonics, high-rate GPS positioning), combined use of multi GNSS data, Satellite Laser Ranging tracking, interoperability of various GNSS, precise orbit determination for GNSS and for LEO satellites, mathematical and theoretical challenges related to the availability of future GNSS data, algorithms and models, constellation maintenance and space debris.

Papers must be submitted electronically through the EES Web site (<http://ees.elsevier.com/asr>) under the category "S.I. Galileo". All manuscripts will be submitted to a standard peer-reviewed process. Accepted manuscripts will be published in a Special Issue of Journal of Advances in Space Research (Elsevier, ISI Web of Science). Deadline for submission is *March 1, 2010*. Authors are encouraged to contact the Guest Editor (Pascal Willis, willis@ipgp.jussieu.fr) for any additional information. They will be kept regularly informed on the progress of the Special Issue until its expected publication in late 2010. Papers will be available on the ASR Web site with a DOI as soon as they are accepted.

PASCAL WILLIS

Meeting Announcements

Workshop on Monitoring North American Geoid Change

Boulder, Colorado, USA, October 21-23, 2009

URL: <http://www.ngs.noaa.gov/GRAV-D/2009Workshop/>

Dear Colleagues,

We are pleased to announce that a *Workshop on Monitoring North American Geoid Change* is going to be held in Boulder, Colorado, USA from October 21 through 23, 2009.

The goal of this workshop is to develop a collaborative plan to use common standards to monitor the geoid model over North America, through a combination of dedicated absolute gravity campaigns and reliance on continued satellite gravity missions. This monitoring is critical to various governments in North America that have begun moving toward a geoid-based determination of their vertical datum.

Experts in absolute and satellite gravity and geoid determination are asked to attend. The few oral presentations will be limited to invited speakers, but an open poster session will be held. A tour of the Micro-G/LaCoste facilities and a tour of the Table Mountain Geophysical Observatory (TMGO) will be included.

- Registration for the workshop is free.
- Hotel and registration information are provided at the URL above.

We look forward to seeing you in Boulder!

DRU SMITH AND JOE HENTON

2009 ILRS Technical Workshop on SLR Tracking of GNSS Constellations

Metsovo, Greece, Sept. 14-19, 2009

Dear Colleagues,

We have the pleasure to announce that the International Laser Ranging Service (ILRS) in collaboration with the National Technical University of Athens, Greece (NTUA) is organizing an ILRS Technical Workshop entitled:

SLR Tracking of GNSS Constellations 50 Years of Satellite Geodesy and Geodynamics

in Metsovo, Greece, from September 14 to 19, 2009, on the occasion of Prof George Veis 80th birthday and the 50th anniversary of his doctoral thesis, a document that laid the foundations of satellite geodesy. Details and the Second Circular are available from the workshop web page http://www.ntua.gr/MIRC/ILRS_W2009.

Objectives

- Overview of the two techniques with emphasis on their synergism
- Review of GNSS and SLR constellations & networks and current state of the art
- Satellite geodesy applied in geodynamics, POD, positioning, gravity, etc.
- Survey of the likely gains in science from SLR tracking of GNSS constellations
- Examine approaches to help accomplish the goals set by GGOS, investigating options such as:
 - higher repetition rates,
 - optimal normal point formulation,
 - interleaving tracking of targets, better sampling of orbits,
 - allocating targets to sub-networks, etc.
- Optimization of the network design and deployment of the appropriate space segment
- Discussion of the fundamental differences, geometric and dynamic, between geodetic cannonball type targets (LAGEOS) and the complicated GNSS spacecraft
- Discussion of applications specifically enabled through the synergism of the two techniques. e.g. the likely improvement of LEO POD with the improved GNSS orbital products and their impact on Earth Observation products relying on these orbits (radar and laser altimetry, geopotential missions, atmospheric lidar and sounding missions, topography missions, SAR and InSAR missions, etc.).

We would like to invite you to participate in the workshop and submit presentations to the sessions of your choice. Deadline for abstract submission and early registration is **September 2, 2009 (changed)**.

We look forward to seeing you all in Metsovo!

ERRICOS C. PAVLIS AND DEMITRIS PARADISSIS

IAG Sponsored Meetings

2nd International Colloquium – Scientific and Fundamental Aspects of the Galileo Programme

October 14-16, 2009, Padua, Italy

The second international colloquium on fundamental aspects and scientific applications of Galileo and GNSS will be held in Padua October 2009. The colloquium will address three major areas of research. The fundamental aspects of navigation by satellites and Galileo. Scientific applications in meteorology, geodesy, geophysics, space physics, oceanography, land surface and ecosystem studies, using either direct or reflected signals, differential measurements, phase measurements, radio occultation measurements, using receivers placed on the ground, in airplanes or on 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. To find more information, please visit the conference website <http://www.congrex.nl/09c10/>.

IAG Related Meetings

6th International Symposium on LBS & TeleCartography

September 2-4, 2009, Centre for Geospatial Science, University of Nottingham, UK

The symposium will bring together experts from around the world to present the latest research results and developments with focus on Location Based Services in the fields of Cartography, Geoinformation, Computer Sciences, Telecommunication, Geodesy, and Geomedia Techniques. For further information see: <http://www.lbs2009.org/>.

GNSS Vulnerabilities and Solutions 2009 Conference

September 2-5, 2009, Baska, Krk Island, Croatia

The 2nd GNSS Vulnerabilities and Solutions 2009 Conference is to be held on 2-5 September 2009 in Baska, Krk Island, Croatia. This four-day event aims to gather GNSS experts and focuses on GNSS problems and vulnerabilities, as well as to developments aiming to improve the accuracy and reliability of GNSS. For further information please refer to the Call for Papers, which can be downloaded from http://www.rin.org.uk/files/POOL/vulnerabilitiesAndSolutions2009_CallForPapers.pdf.

2009 ILRS Technical Workshop on SLR Tracking of GNSS Constellations

Metsovo, Greece, Sept. 14-19, 2009

The International Laser Ranging Service (ILRS) in collaboration with the National Technical University of Athens, Greece (NTUA) is organizing an ILRS Technical Workshop entitled: "SLR Tracking of GNSS Constellations – 50 Years of Satellite Geodesy and Geodynamics" in Metsovo, Greece, from September 14 to 19, 2009. Details and the Second Circular are available from the workshop web page http://www.ntua.gr/MIRC/ILRS_W2009.

INTERGEO 2009

September 22-24, 2009, Karlsruhe, Germany

INTERGEO is the world's largest event and communication platform for geodesy, geoinformation and land management. The trade fair and conference cover all the key trends that crop up along the entire value-added chain – from geo-based information surveys and data processing to integrated applications. The technology region Karlsruhe becomes a first focal point of the international geo-professional world: Over 15,000 experts from all five continents visit the world leading trade fair for geodesy, geoinformation and land management in the fair halls. The URL is <http://www.intergeo.de/en/englisch/index.php>.

ION GNSS 2009

September 22-25, 2009, Georgia, USA

The Institute of Navigation's GNSS 2009 (technical sessions and exhibits) will be held at the Savannah International Convention Center, Savannah, Georgia. Pre-conference tutorials will be held in Savannah on September 21-22. See the ION website (www.ion.org) for details.

2nd Workshop on Absolute Long Distance Measurement in Air

October 2, 2009, VSL, Delft, The Netherlands

The Workshop is organized within the scope of the European Metrology Research Programme, Joint Research Project 3.1 on Long Distance measurement in air. The workshop aims to cover the current status in the field of long distance measurement in air, with contributions from both invited speakers and JRP partners. The Preliminary Programme for the 2nd Workshop is being prepared and will be posted at the official webpage of the project www.longdistanceproject.eu.

Workshop on Monitoring North American Geoid Change

October 21-23, 2009, Boulder, Colorado, USA

Workshop on Monitoring North American Geoid Change is going to be held in Boulder, Colorado, USA from October 21 through 23, 2009. The goal of this workshop is to develop a collaborative plan to use common standards to monitor the geoid model over North America, through a combination of dedicated absolute gravity campaigns and reliance on continued satellite gravity missions. This monitoring is critical to various governments in North America that have begun moving toward a geoid-based determination of their vertical datum. Please visit <http://www.ngs.noaa.gov/GRAV-D/2009Workshop/> for details.

International UN-SPIDER Bonn Workshop

October 21 – 23, 2009, Bonn, Germany

The Third United Nations International UN-SPIDER Bonn Workshop: Disaster Management and Space Technology From Concepts to Applications is being jointly organized by the United Nations Office for Outer Space Affairs (UNOOSA) and the German Aerospace Center (DLR). The workshop will be held in Bonn,

Germany, from 21 – 23 October 2009 in the UN Building in Bonn. Please check out: <http://www.unoosa.org/oosa/en/uns spider/workshops.html>.

SPRINGL'09

November 3, 2009, Seattle, USA

SPRINGL'09 - 2nd ACM International Workshop on Security and Privacy in GIS and LBS is co-located with 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009). SPRINGL 2009 is the second workshop in the SPRINGL workshop series that aims at bringing together researchers working on the foundations of the field and on novel applications bridging spatio-temporal data management and security and privacy. Further details are available from the webpage <http://www.cs.purdue.edu/homes/daic/springl09>.

ACM GIS 2009

November 4-6, 2009, Seattle, USA

The ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems 2009 (ACM GIS 2009) is the seventeenth 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. Visit <http://acmgis09.cs.umn.edu> for details.

IAG Sister Societies' General Assemblies

Associations' Scientific Assemblies of the IUGG

- IUGG/IAHS, September 7-12, 2009, Hyderabad, India
- IUGG/IAG, August 31-September 4, 2009, Buenos Aires, Argentina
- IUGG/IACS-IAMAS-IAPSO, July 19-29, 2009, Montreal, Canada

XXIV FIG International Congress

April 11-16, 2010, Sydney, Australia

The FIG 2010 Congress, hosted by the International Federation of Surveyors (FIG) and Institution of Surveyors, Australia (ISA), is expected to bring together over 2,000 participants from almost 100 countries. The Congress will have a full professional program consisting of more than 80 technical and poster sessions, several workshops, pre-congress seminars, and special forums, including four plenary sessions focusing on the hot issues of the global agenda and of our profession: namely the big challenges of climate change, disaster risk management and good land governance; spatially enabled society; and different aspects of the technological futures. The webpage of the FIG 2010 Congress is www.fig2010.com.

Fast Bibliography

The fast bibliography consists of a listing of papers relevant to Geodesy that has been collected by the IAG Bibliographic Service (IBS) since previous issue of the fast bibliography (IAG Newsletter May 2009). The IBS is based on the literature data base GEOPHOKA, which is maintained by BKG (Bundesamt für Kartographie und Geodäsie) at the Branch Office Leipzig, Karl-Rothe Strasse 10-14, 04105 Leipzig, Germany. The IBS can be reached at the following Internet address: <http://www.bkg.bund.de> or furthermore through the homepage of IAG: <http://www.iag-aig.org>.

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