



INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS
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This informal newsletter is intended to keep IUGG Member National Committees informed about the activities of the IUGG Associations, and actions of the IUGG Secretariat. Past issues are posted on the IUGG Web site (<http://www.iugg.org/publications/ejournals/>). Please forward this message to those who will benefit from the information. Your comments are welcome.

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1. XXV IUGG General Assembly: Call for Abstracts and Registration Open

With the XXV IUGG General Assembly (GA) in Melbourne less than a year away, preparations are now moving quickly. Registration is open at <http://www.iugg2011.com/rego.asp>. Abstracts can now be submitted online (<http://www.iugg2011.com/program-abstracts.asp>).

The GA's Scientific Program includes three categories of symposia and a number of workshops on a wide range of geophysical themes.

- *Union Symposia* cover a wide range of themes of concern to the eight Associations. Invited speakers feature in these Symposia, supported by poster presentations submitted. Several of the Union Symposia are expanded or followed in greater depth in Joint Symposia or in Association Symposia;
- *Lead (Inter-Associations) Symposia* with keynote speakers and scientists whose oral and poster presentations are accepted by the session convenors. The themes have been devised by at least two Associations, one of which is the lead Association. Some Joint Symposia are further developed separately in Association Symposia and Workshops.
- *Association Symposia* with keynote speakers and scientists whose oral and poster presentations are accepted by the session convenors.

The Scientific Program (<http://www.iugg2011.com/program.asp>) and other important information are available on the GA's web site <http://www.iugg2011.com/>.

Please bookmark the site and visit it regularly.

2. Administrative Meetings at the XXV IUGG General Assembly

The Schedule of IUGG administrative meetings was set as follows:

IUGG Bureau Meeting

- Session 1: Sunday, 26 June, 9:00-12:00
- Session 2: Friday, 1 July, 12:00-14:00
- Session 3: Tuesday, 5 July, 12:00-14:00

IUGG Executive Committee Meeting

- Session 1: Sunday, 26 June, 14:00-18:00
- Session 2: Friday, 1 July, 15:00-18:00
- Session 3: Tuesday, 5 July, 15:00-18:00

IUGG Council Meeting

- Session 1: Monday, 27 June, 14:00-18:00
- Session 2: Saturday 2 July, 10:00-13:00
- Session 3: Wednesday, 6 July, 15:00-18:00

IUGG new Bureau & Executive Committee meetings

- Friday, 8 July, 10:00-11:30 – meeting of the new Bureau
 - Friday, 8 July, 13:00-15:00 – meeting of the new EC
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3. Nominations for IUGG Officers and the Finance Committee due 25 September

An important matter for the IUGG Council at its meeting in Melbourne, Australia, in 2011 will be the election of IUGG officers (President, Vice-President, Treasurer, and 3 Bureau Members), as well as the 4 members of the Finance Committee. (The IUGG Secretary-General was elected for two terms in 2007.) The Nominating Committee has the task of collecting the nominations and preparing the ballot, following the rules regarding nominations and elections for these positions (IUGG Statute 11 and By-Laws 10).

The members of the Nominating Committee are as follows: Chair: *Masaru Kono* (Japan); Members: *Gerhard Beutler* (Switzerland), *Marta Calvache* (Colombia), *Vladimir Cermak* (Czech Republic). Alternate Member: *Corina Rizzo* (Argentina).

Instructions regarding the procedures to be used to submit nominations have been sent to all IUGG/ Association officers and Adhering Bodies in January 2010. The first deadline for nominations is **25 September 2010**. For further information, contact M. Kono (masarukono@gmail.com) or the IUGG Secretariat (Ms. Simone Oswald, Simone.Oswald@kit.edu).

4. Scientific Projects Selected for IUGG Support

IUGG established a Grants Programme for 2008-2011 to complement its existing programme of funding symposia and workshops organised or co-sponsored by Union Associations and Union Commissions (<http://www.iugg.org/grants/>). For 2010-2011, IUGG awarded the following projects:

- Improving Geophysical Science Link to the Society during Natural Extreme Events, especially in Developing Countries (“Networking of World Seismologists”). Lead Applicant: IASPEI. Supporting Applicants: IAPSO and the IUGG Union Commission on Geophysical Risk and Sustainability.
 - Extension of INTERMAGNET Russian Segment: Prospects and Challenges. Lead Applicant: IAGA. Supporting Applicants: IAG and the IUGG Union Commission on Data and Information.
 - Predicting Volcanic Ash Dispersal Combining Field, Experimental and Meteorological Data into Super-computational Numerical Simulations. Lead Applicant: IAVCEI. Supporting Applicant: IAMAS.
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5. Joint IUGG-ICAO Working Papers

The International Civil Aviation Organization (ICAO), a UN Specialized Agency, is the global forum for civil aviation. ICAO works to achieve its vision of safe, secure and sustainable development of civil aviation through cooperation amongst its member States. IUGG via its constituent association, the International Association of Volcanology and Chemistry of the Earth’s Interior (IAVCEI) works with ICAO on (i) developing a formal volcanic-activity warning message template for aviation; (ii) improving volcanological input to ash-dispersion models that are used by weather services globally in warning forecasts; (iii) providing guidance to meteorologists about ash deposition at airports; and (iv) improving the reporting of aircraft encounters with volcanic ash and gas. Recent joint IUGG-ICAO working papers are listed below. The papers can be downloaded from the ICAO web-site (under “Meetings”):

<http://www2.icao.int/en/anb/met-aim/met/iavwopsg/Lists/Meetings/AllItems.aspx>

- IUGG and ICAO, 2007, Development of a template for the provision of information from observatories to ACC, MWO and VAAC: For presentation at the third meeting of ICAO’s International Airways Volcano Watch Operations Group in Bangkok, Thailand, 19-23 March 2007 (IAVWOPSG/3, WP10).
- United States, Canada, and IUGG, 2007, Status of research on eruption source parameters and dataset of well-documented eruptions: For presentation at the third meeting of ICAO’s International Airways Volcano Watch Operations Group in Bangkok, Thailand, 19-23 March 2007 (IAVWOPSG/3, WP10).
- United States, Canada, and IUGG, 2007, Status of research on eruption source parameters and dataset of well-documented eruptions: For presentation at the third meeting of ICAO’s International Airways Volcano Watch Operations Group in Bangkok, Thailand, 19-23 March 2007 (IAVWOPSG/3, WP10).
- Australia, IUGG, and ICAO, 2008, Fostering implementation of the volcano-observatory reporting template: For presentation at the fourth meeting of ICAO’s International Airways Volcano Watch Operations Group in Paris, France, 15-19 September 2008 (IAVWOPSG/4, WP12).
- IUGG and Canada, 2008, Status of research on eruption source parameters and dataset of well-documented eruptions: For presentation at the fourth meeting of ICAO’s International Airways

Volcano Watch Operations Group in Paris, France, 15-19 September 2008 (IAVWOPSG/4, WP21).

- Australia, United States, IATA, IFALPA, and IUGG, 2008, Proposal to modify the Volcanic Activity Report to include SO₂ and to improve the distribution of the VAR: For presentation at the fourth meeting of ICAO's International Airways Volcano Watch Operations Group in Paris, France, 15-19 September 2008 (IAVWOPSG/4, WP24).
- United States and IUGG, 2008, Guidance on reporting of volcanic ash deposition at aerodromes, 2008: For presentation at the fourth meeting of ICAO's International Airways Volcano Watch Operations Group in Paris, France, 15-19 September 2008 (IAVWOPSG/4, WP27).

Received from Marianne Guffanti and William Rose, IUGG liaisons to ICAO

6. News from the International Council for Science

CODATA International Conference

The 22nd CODATA International Conference "Scientific Information for Society: Scientific Data and Sustainable Development" will take place in Cape Town, South Africa, 24–27 October 2010 (<http://www.codata2010.com/>). The conference, organized in collaboration with the National Research Foundation, will provide an international forum for scientists and policy makers to discuss global data challenges, including the critical role that scientific data and information plays in the scientific, social, economic and policy evolution of nations. IUGG will be presented at the Conference and the CODATA General Assembly by Peter Fox, Chair of the IUGG Union Commission on Data and Information.

Invitation to host the international office for the ICSU World Data System

ICSU is now inviting tenders to host the ICSU World Data System (WDS) International Programme Office (IPO). The office will manage and coordinate the establishment and operations of the WDS, and take responsibility for outreach and promotional activities. The IPO will act under the guidance of the ICSU World Data System Scientific Committee (WDS-SC). More information can be found on the ICSU web-page: http://www.icsu.org/1_icsuinscience/DATA_WDS_1.html

7. Centenary Anniversary of ISPRS

The Centenary Celebrations of the International Society for Photogrammetry and Remote Sensing (ISPRS) took place at its birthplace in Vienna (Austria) from 2 to 7 July 2010. On 2 July the booklet "Best Practices Booklet on Geo-Information for Risk and Disaster Management" produced by the Joint Board of Geospatial Societies (including the International Association of Geodesy – IAG – among others) was launched at the U.N. Office of Outer Space Affairs (UN-OOSA) followed by the press conference on the booklet. On 3 July ISPRS held its Open Business Meeting, where several guests were invited including Harald Schuh (IUGG) and Chris Rizos (IAG). The central event of the celebrations was the extraordinary Centenary General Assembly of ISPRS held on 4 July. IUGG Secretary-General Alik Ismail-Zadeh addressed the General Assembly on behalf of the ICSU Scientific GeoUnions. The Assembly was followed by the unveiling of a plaque of Eduard Dolezal (Professor of the Vienna University of Technology), the founder of ISPRS, and by a lecture series on the history of ISPRS, GeoImagery, and future developments in ISPRS's areas of

interest. The evening lecture by Franz Radermacher (University of Ulm, Germany) on globalization, innovation and global sustainability was followed by a gala dinner at the Vienna Rathaus (Town Hall). The symposium “Advancing Remote Sensing Science” on 5-7 July concluded the centenary celebrations.

8. Awards and Honours

Eliecer Duarte (Costa Rica) and *Cristian Farías* (Chile) have been selected recipients of the American Geophysical Union’s (AGU) Bruno Martinelli Travel Fellowship to support their attendance at the 2010 Workshop "Earthquakes and Volcanoes" of the European Seismological Commission (an IASPEI Commission) (http://earth.leeds.ac.uk/esc_wg/Wshop/work2010.htm) in Clermont-Ferrand, France, 18–25 September 2010. The Martinelli Fellowship provides funding for young Latin American scientists to attend an international meeting or workshop, and present a paper on volcanic processes. A fund supporting this fellowship was established in 2001 by colleagues of Dr. Bruno Martinelli, a Swiss volcanologist who worked in South America and personally provided travel assistance to young scientists.

Several scientists with IUGG responsibilities began a two-year term in July 2010 as officers or members of the AGU Council, Sections and Focus groups, and Committees. *Stephen Sparks* (Past IAVCEI President) is elected to the AGU Board of Directors. *Alik Ismail-Zadeh* (IUGG Secretary-General), *David Sandwell* (IAG Commission on InSAR for Tectonophysics), *Anne Thompson* (IAMAS Vice-President), and *Donald Wuebbles* (IAMAS Commission on Ozone) are elected or appointed Members of the AGU Council. *Harsh Gupta* (IUGG Vice-President) and *Laszlo Szarka* (Chair, IUGG Capacity Building and Education Committee) are appointed Members of the AGU Committee on International Participation. *David Chapman* (Vice-Chair, International Heat Flow Commission) and *Veronique Dehant* (IAG National Correspondent and 2007 IUGG Council Delegate) were appointed Chair and Member of the AGU Bowie Medal Committee, respectively. *Masaru Kono* (Past IUGG President) was appointed Member of the AGU Smith Medal Committee. *Guenter Blöschl* (President, IAHS International Commission on Water Resources Systems) is appointed Chair of the AGU Horton Medal Committee. *Mioara Mandea* (IAGA Secretary General) was appointed Chair of the AGU Excellence in Geophysical Education Award Committee.

9. Obituaries

James Dooge (1922-2010)



James C. I. (Jim) Dooge, an outstanding hydrologist, engineer and Irish politician, passed away on 20 August 2010 in Dublin, Ireland, at the age of 88. Professor Jim Dooge, friend and colleague of so many scientists, was a giant of a man. His truly outstanding scientific achievements were accomplished with a sense of the highest integrity and yet with compassion and sensitivity for the feelings of those with whom he worked.

Jim Dooge graduated in Science (Mathematics, Mathematical Physics, Geology) and in Civil Engineering from University College, Dublin in 1942 and in the same year was awarded the Pierce Malone Scholarship in Theory of Structures and Strength of Materials, open to graduates of all three

colleges of the National University of Ireland. In 1943 he became assistant engineer on the survey and design of major river improvement schemes in the arterial drainage section of the Irish Office of Public Works. He joined the Electricity Supply Board in 1946 and became a design engineer with the Civil Works Department. He carried out studies of project planning and design for hydroelectric development, as well as hydrologic investigations and all aspects of the hydraulic design of hydroelectric schemes. He also worked on the hydraulic aspects of cooling water systems for steam power plants and conducted hydraulic model experiments for hydroelectric schemes and steam stations.

Jim's interest in hydrology was stimulated and reinforced by his background in practical engineering, which he then took to the highest scientific level. His careful and thorough study of hydrological systems resulted in seminal contributions to their mathematical modelling. With time, his interest expanded to cover meteorology and climate; he had considerable influence in shaping the climate change debate. In 1958 he was appointed Professor of Civil Engineering at University College Cork. This was to be the beginning of the influential academic phase of his career and he was to remain at University College Cork for the next 12 years. In 1970 he became a Professor at University College Dublin. Between 1984 and 1987 he worked at the Department of Engineering Hydrology at University College Galway. Since 1988 he worked at University College Dublin at the Centre for Water Resources Research. In tandem with this, the international scope of his work also grew. Since the mid-sixties until recent years, he worked as an expert consultant to a wide range of specialized United Nations agencies including UNESCO, World Meteorological Organization (WMO), United Nations Environment Programme (UNEP), and the United Nations Food and Agriculture Organization (FAO). He also acted in an expert consultancy role to DGXII (Research) at the European Commission.

Jim served as President of the International Association of Hydrological Sciences (IAHS) from 1975 to 1979. He was the elected Secretary-General of the International Council for Science (ICSU) (1980-82), an IUGG Bureau member (1983-87), and ICSU President (1993-96). He was awarded the Horton Award in 1959, the International Hydrology Prize in 1983, the William Bowie Medal of the American Geophysical Union in 1986, and the WMO International Meteorological Prize in 1999 (the only non-meteorologist to be so honoured). In 2000 he was made an International Fellow at the Royal Academy of Engineering, he has been awarded the Prince Philip Medal by the Duke of Edinburgh. In 2005 the Royal Irish Academy awarded him the Academy's Gold Medal. It was Jim who arranged for the International Conference on Water and the Environment to be invited to Dublin in 1992 as a precursor to the Rio Earth Summit; he then chaired the conference with great skill. The "Dublin Principles" have been highly influential in shaping water management policy in the last 20 years. As well as having a distinguished career as an academic, Jim Dooge led a very active political life. He became involved in politics at an early age and was elected to Dublin County council for Fine Gael in 1948 and was twice elected chairman of the council, in 1950 and 1953. From 1961 to 1977 he was a Senator in the Seanad Éireann (Irish Senate), serving as its Cathaoirleach (chairperson) from 1973 to 1977. In 1981 he was appointed by the Taoiseach (Prime Minister), Garret Fitz Gerald as Minister of Foreign Affairs. Between 1981 and 1987 he returned to the Irish Senate. He had a primary role in the intergovernmental building of a report into improving co-operation of the European Economic Community (EEC) in 1984 during Ireland's Presidency. This work (The Dooge Report) along with his time as Foreign Affairs Minister is credited as helping form the basis of the Single European Act that led to agreement among the EEC members to form the European Union. Jim Dooge is survived by four children, ten grandchildren and one great grandson. He will be sorely missed by his family, his country and the international scientific community.

Received from Gordon Young, IAHS President.

Igor Shiklomanov (1938-2010)



Igor Shiklomanov, a prominent hydrologist and a recognized authority in water resources, human impact on river runoff and the dynamics of water use and availability on regional and global scales, passed away in St. Petersburg (Russia) on 22 August 2010 at the age of 72. Since 1981 Professor Shiklomanov had been the leader and director of the Russian State Hydrological Institute (RSHI) at St. Petersburg, one of the oldest scientific hydrological institutions in Russia and in the world.

He was the author of more than 250 publications, including the books “World Water Resources at the Beginning of the 21st Century” (Cambridge University Press, 2003), “Water Resources as a Challenge of the Twenty-First Century” (World Meteorological Organization - WMO, 2004) and “Water Resources of Russia and Their Use” (Nauka, 2008). For more than 30 years, Igor Shiklomanov significantly contributed to international cooperation in the field of hydrology and water resources within the International Association of Hydrological Sciences - IAHS of IUGG, UNESCO, WMO, and UNEP. In the middle of the 1990s, he was elected Chairman of the Intergovernmental Council for the International Hydrological Program of UNESCO, and during eight years he was a member of the United Scientific Committee for the Global Energy and Water Cycle Experiment. For many years Professor Shiklomanov was a member of the WMO Commission for Hydrology. Shiklomanov’s scientific activity was highly recognized by the international scientific community. He was the only Russian hydrologist awarded the International Prize of UNESCO, WMO and IAHS for outstanding achievements in hydrology and international cooperation (2001) and the Tyler Prize for Environmental Achievements (2006). Igor Shiklomanov will be missed by his family, his country and the international scientific community.

Received from Pierre Hubert, IAHS Secretary General, and J. Balonishnikova, RSHI.

10. IUGG-related meetings occurring during September – November 2010

A calendar of meetings of interest to IUGG disciplines (especially those organized by IUGG Associations) is posted on the IUGG web site (<http://www.IUGG.org/calendar>). Specific information about these meetings can be found there. Individual Associations also list more meetings on their web sites according to their disciplines.

September

- 5-9, IASPEI, Montpellier, France, ESC2010 (European Seismological Commission 2010).
- 5-11, IAHS, Stockholm, Sweden, 2010 World Water Week. The Water Quality Challenge - Prevention, Wise Use and Abatement.
- 6-9, IAHS, Stellenbosch, South Africa, 11th International Symposium on River Sedimentation (ISRS).
- 7-11, IAHS, Tianjin, China, 9th International Conference on Hydroinformatics HIC2010.
- 12-16, IAHS, Krakow, Poland, XXXVIIIth IAH Congress.
- 13-22, IAGA, Changchun, China, XIVth IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition and Processing.
- 14-17, IAG, Istanbul, Turkey, 15th General Assembly of WEGENER 2010.
- 15-16, IAVCEI, Keflavik Airport, Iceland, Conference on Eyjafjallajökull and Aviation.
- 18-24, IAGA, IUGG, Porto Sokhna, Egypt, 20th Electromagnetic Induction Workshop.

- 20-22, IAG, Fairbanks, Alaska, USA, 2nd General Assembly of the International Gravity Field Service.
- 20-23, IAHS, Prague, Czech Republic, HydroPredict' 2010: 2nd International Interdisciplinary Conference on Predictions for Hydrology, Ecology, and Water Resources Management: Changes and Hazards caused by Direct Human Interventions and Climate Change.
- 27-30, IAHS, Jackson Hole, Wyoming, USA. Remote Sensing in Hydrology 2010 Symposium.

October

- 3-6, EMSEV, IUGG, Orange, CA, USA, Workshop on Electromagnetic Signals Associated with Earthquakes and Volcanoes.
- 3-9, IAVCEI, IUGG, Reunion Island, 3rd workshop on Collapse Calderas “Dynamics of Calderas: Collapse and Unrest”.
- 4-8, IAG, France, IAG Commission 1 Symposium 2010: Reference Frames for Applications in Geosciences (REFAG2010).
- 21-22, IAG, Lisbon, Portugal, International DORIS Service Workshop.
- 25-28, IAG, Shanghai, China, Observing and Understanding Earth Rotation.
- 25-29, IHP-UNESCO, IAHS, IUGG, Fez, Morocco, 6th World FRIEND Conference. Global Change: Facing Risks and Threats to Water Resources.

November

- 8-10, IASPEI, IUGG, Hanoi, Vietnam, 8th General Assembly of the Asian Seismological Commission.
- 8-10, IAHS, Hanoi, Vietnam, 5th Conference of the Asia Pacific Association of Hydrology and Water Resources.
- 11-12, PAIGH, IAG, IUGG, Lima, Peru, Meeting of PAIGH joint with the General Meeting of the Geocentric Reference System for the Americas (SIRGAS) and IAG-SIRGAS School “Reference Systems”.
- 14-16, IAHS, Kyoto, Japan, Conference “Groundwater as a key for adaptation to changing climate and society”.
- 15-17, IUGG, ECGS, Luxembourg City, Luxembourg, International Workshop on Induced Seismicity.
- 16-18, IUGG, Agra, India, International Workshop on Seismo-Electromagnetics and Atmospheric Science (IWSE-AS 2010).
- 19-21, IAHS, Nanjing, China, IWRM 2010, 5th International Symposium on Integrated Water Resources Management: Water Resources Sustainability in a Changing Environment.

End of IUGG Electronic Journal Volume 10 Number 9 (1 September 2010)

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Note: Contributions to IUGG E-Journal are welcome from members of the IUGG family. Please send your contributions to Alik Ismail-Zadeh by e-mail (insert in Subject line: *contribution to E-Journal*). The contributions will be reviewed and may be shortened by the Editor.