



INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS
UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

The IUGG Electronic Journal

Volume 18 No. 6 (1 June 2018)

This monthly newsletter is intended to keep IUGG Members and individual scientists informed about the activities of the Union, its Associations and interdisciplinary bodies and about the actions of the IUGG Secretariat, Bureau, and Executive Committee. Past issues are posted on the IUGG website (<http://www.iugg.org/publications/ejournals/>). E-Journals may be forwarded to those who will benefit from the information. Your comments are welcome.

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1. IUGG Centennial grant awards

The IUGG Grants Program aims to support projects, of importance to the international geophysical and geodetic community, which explore new scientific ideas, develop future international initiatives, and promote geoscience education. The year 2019 is the centennial year of the founding of the IUGG. The IUGG Bureau decided to dedicate the 2018 call to the IUGG Centennial and to award funds to proposals addressing international cooperation in Earth and space sciences and highlighting the importance of science for sustainable development of society. On 1 May 2018, the IUGG Bureau announced the winners of the IUGG grants and awarded US\$ 52,000 to the following projects:

- IUGG Centennial Celebration Activities in China;
 - Implementation of the United Nations' Resolution on the Global Geodetic Reference Frame (UN-GGRF) for Sustainable Development in Latin America;
 - Geoscience education and outreach for sustainable transformational change in the Middle East and North Africa region;
 - IAMAS-iCACGP/IGAC Early Career Short Course on atmospheric sciences and climate;
 - Knowing Planet Earth: geoscience awareness across cultures and languages; and
 - Fostering developed-developing country partnerships for the advancement of global volcano science.
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2. IUGG booth at the AOGS Annual Meeting

To learn more about the 27th IUGG General Assembly (8-18 July 2019, Montreal, Canada) and IUGG in general, there will be an IUGG booth (No. G5) at the 15th Annual Meeting of the Asia Oceania Geosciences Society (AOGS). The Annual Meeting will be held at the Hawaii Convention Center in Honolulu, Hawaii, USA from 3 to 8 June 2018. If you attend the AOGS Annual Meeting, please visit the IUGG booth. Franz Kuglitsch (IUGG Executive Secretary/Assistant Secretary General) and Jean-Paul de Lavison (President of JPdL, the Professional Conference Organizer of IUGG2019) look forward to meeting you at the booth.

3. Nominations for IUGG Early Career Award due on 20 June

The IUGG Early Career Scientist Award (ECSA) honors early career scientists for their outstanding research in Earth and space sciences and international research cooperation. The awardees are bestowed an IUGG plaque and certificate, which will be presented at the Award Ceremony of the XXVII IUGG General Assembly in Montreal, Canada, on Saturday, 13 July 2019, following the announcement of the awards on 5 November 2018. IUGG covers travel expenses of the awardees to attend the General Assembly, at which the awardees will be invited to give a talk. The deadline for submission of nominations is **20 June 2018**. Details on the ECSA, including the procedure for nomination, eligibility criteria, and technical requirements, can be found at: <http://www.iugg.org/honors/ECSAward.pdf>

4. IAHS contributes to UN water-related programs

The *World Water Development Report (WWDR2018)* was presented at the 8th World Water Forum held in Brasilia, Brazil on 19 March 2018. The International Association of Hydrological Sciences (IAHS) of IUGG contributed to the report as an official partner of UN Water. The WWDR2018 demonstrates how nature-based solutions (NBS) offer a vital means of moving beyond business-as-usual to address many of the world's water challenges while simultaneously delivering additional benefits vital to all aspects of sustainable development. NBS for water are central to achieving the 2030 Agenda for Sustainable Development because they generate social, economic and environmental benefits, including human health and livelihoods, food and energy security, sustainable economic growth, decent jobs, ecosystem rehabilitation and maintenance, and biodiversity. Although NBS are not a panacea, they will play an essential role towards the circular economy and in building a more equitable future for all. The full version of the report and presentation can be found at UNESCO-IHP website: <http://www.unesco.org/new/en/natural-sciences/environment/water/wwap/wwdr/2018-nature-based-solutions/>

The International Decade for Action: Water for Sustainable Development 2018-2028 was launched on 22 March 2018 (the World Water Day) by the United Nations. IAHS is member of the Task Force set up by UN Water to facilitate the planning and organisation of the Decade (<http://www.wateractiondecade.org/>). The new Decade will focus on the sustainable development and integrated management of water resources for the achievement of social, economic and environmental objectives and on the implementation and promotion of related programmes and projects, as well as on the furtherance of cooperation and partnership at all levels in order to help to achieve internationally agreed water-related goals and targets, including those contained in the 2030 Agenda for Sustainable Development (Source: IAHS Newsletters)

5. Report on the Gi4DM 2018 Conference

Gi4DM 2018 Conference was organized by the International Society for Photogrammetry and Remote Sensing (ISPRS) in Istanbul, Turkey from 18 to 21 March 2018, and co-sponsored by IUGG, the International Union of Radio Sciences (URSI), International Geographical Union (IGU), and International Cartographic Association (ICA). The conference addressed diverse topics related to methodologies and technologies within a unique platform keeping participants up to date with the latest advances in geoinformation applicable to disaster management. In total, there were 133 participants from many countries of the world; 77 papers were presented at 13 oral sessions, and 19 papers were selected for poster presentations. The sessions provided a unique platform for wider discussions on disaster risk reduction and management. On 18 March, a day-workshop on “Application-based Approach to Disaster Management and the Role of Radar Remote Sensing” was organized with 29 participants, who were introduced to theory and applications related to radar remote sensing in disaster management. The Opening Ceremony of the Conference was held on 19 March. Participants of the conference were welcomed by Orhan Altan, principal organizer of the conference; Paul Cannon, Immediate Past President of URSI; Christian Heipke, President of ISPRS; and Osman Alp, President of the Turkish General Command of Mapping of the Ministry of National Defense. Plenary talks were delivered by Deren Li on “Ten Years of Persistence Hard Working - Chinese Natural Disaster Monitoring, Assessment and Emergency Response System Based on Remote Sensing”; Alik Ismail-Zadeh on “Science-based Geohazard Risk Reduction”; Ed Parsons on “Disasters or Disaster Management in the age of Ambient Location”; and Steven Ramage on “Disaster Risk Reduction: The Sendai Framework and the GEO Work Programme”. Two best poster awards were presented to Aikaterini Karagianni, Ilias Lazos, and Alexandros Chatzipetrosvon of the Aristotle University of Thessaloniki for the paper “Remote sensing techniques in disaster management: Amynteon mine landslides, Greece” and Duygu Akyürek, Öykü Koç, Ece Miray Akbaba, and Filiz Sunar of the Istanbul Technical University for the paper “Land Use/Land Cover Change Detection Using Multi-Temporal Satellite Dataset: A Case Study In Istanbul New Airport”. The next Gi4DM will be held in Prague, Czech Republic, in September 2019.

Orhan Altan, co-organizer of the Conference

6. EMSEV symposium on Electromagnetic Studies of Earthquakes and Volcanoes



EMSEV (“Electro-Magnetic Studies of Earthquakes and Volcanoes”) is an interdisciplinary IUGG Working Group co-sponsored by IAGA, IASPEI, and IAVCEI, which primarily focuses research on electromagnetic phenomena related to earthquakes and volcanoes and promotes advanced international cooperation. The next biennial symposium “EMSEV 2018” will be held in Potenza, Italy, from 17 to 21 September 2018 (<http://web.unibas.it/emsev2018/>). The workshop will focus on the observation and understanding of various kinds of electromagnetic phenomena associated with earthquakes and volcanic eruptions particularly from a multidisciplinary point of view. It will be a great opportunity for students and young researchers to present their scientific research and achievements as well as to build interdisciplinary co-operation with researchers worldwide. *Important Deadlines:* Abstract submission: 15 June, and pre-registration: 15 August. Registration fee: participant: 250€, student: 100€ Contact: EMSEV2018 LOC (emsev2018@gmail.com).

Jacques Zlotnicki, EMSEV Chair

7. Obituary: A. F. Spilhaus, Jr. (1938-2018)



Athelstan Fredrick (Fred) Spilhaus, Jr., long-time Executive Director of the American Geophysical Union (AGU; 1970-2009), died on 30 April 2018 in Washington, D.C., after an extended illness. He was born in Boston, Massachusetts, on 21 May 1938. He held three degrees from the Massachusetts Institute of Technology, including a Ph.D. in physical oceanography. For more than three decades, Fred's career was intertwined with IUGG. In 1967, when he joined the staff of AGU as Assistant Executive Director, AGU was formally a part of the U.S. National Committee for Geodesy and Geophysics (USNC/IUGG) established by the U.S. National Academy of Sciences in 1919 to adhere to IUGG.

Even before Fred settled into his AGU office, he was off to Zurich, Switzerland, for the IUGG General Assembly. He often commented that being immersed in the international geophysical community of scientists for two weeks so early in his tenure was an amazing experience and one that would help shape his philosophy for how AGU could operate as a part of the global science scene. When his predecessor, Waldo Smith, retired in 1970, Fred became AGU's Executive Director and also became the Secretary to the USNC/IUGG. Two years later it became clear that AGU, and the USNC/IUGG should be separate organizations. The ties between the two remained close. Fred continued to serve as Secretary to the USNC/IUGG until 2003 and arranged for the committee to receive logistical support from AGU. Fred was an elected member of the IUGG Finance Committee from 1987 to 1995 and chaired the committee from 1999 to 2003. Fred was somewhat surprised that the United States was chosen as the site of the 1995 IUGG General Assembly so soon after the GA in Vancouver, Canada. Nonetheless, he threw his energy and the support of the AGU staff into making the Boulder, Colorado, meeting one to be remembered. While respecting the long-term traditions of IUGG, he and the host committee added touches that were reminiscent of an AGU meeting. At every IUGG General Assembly, Fred could be seen cultivating relationships with the leaders of the other delegations. He truly enjoyed scientific diplomacy and was good at it. He envisioned a strong network of scientific organizations around the world collaborating to advance our understanding of our home planet.

Fred's outgoing personality, boundless energy, and love of good food and wine were legendary. He often seemed bigger than life. He was passionate about AGU and the integrity of science, making both his mission in life. Everyone who saw the growth of AGU both in numbers and in importance

know that its success was in no small measure due to Fred. His outstanding and selfless contributions to the promotion of the Earth and space sciences worldwide were recognized by many honors, including the Waldo Smith Medal from AGU in 2010. He was especially moved when IUGG Fellowship was conferred upon him in 2015 ... The world was a richer place because Fred Spilhaus was a part of it. Sadly, his passing has left a great hole.

Judy C. Holoviak

8. Meeting calendar

A calendar of meetings of interest to IUGG disciplines (especially those organized by IUGG Associations) is posted on the IUGG website (<http://www.iugg.org/calendar.php>). Individual Associations also list more meetings on their websites according to their disciplines.

June

- 3-8, AOGS, Honolulu, HI, USA, AOGS2018. 15th Annual Meeting. Web: <http://www.asiaoceania.org/aogs2018>
- 3-8, IAG, Longyearbyen, Spitsbergen, Norway, 10th IVS General Meeting. Web: http://event.trippus.net/Home/GetContent/AEAKgINexbzL4CiuUetTDA3g1dTtEfiBEO6rlmTTQCBd02esN01lraDp2He0cAiBMqbFcggKFZr /AEAKgIOQ-p4F2ngZaONjRQGY8lcBzAq4plxWk17NdeVcjl-WW_8ek7SQGTxKcLOptgCsTbfsTDH8/eng/19099
- 5-15, IACS, IUGG, McCarthy, AK, USA, International Summer School in Glaciology. Web: <http://glaciers.gi.alaska.edu/courses/summer-school/2018>
- 10-16, IAGA, Checiny, Poland, 16th Meeting on Paleo, Rock and Environmental Magnetism, Web: <http://castle2018.igf.edu.pl>
- 11-12, GEO, Geneva, Switzerland, 2018 GEO Symposium. Web: http://www.earthobservations.org/me_201806_wps.php?t=climate
- 13-15, IAHS, Beijing, China, 8th International Water Resources Management Conference of ICWRS. Web: <http://iwr2018.bnu.edu.cn>
- 15-26, SCAR, Davos, Switzerland, POLAR2018. Where the poles come together. A SCAR & IASC Conference. Web: <http://www.polar2018.org/>
- 16-21, IUGS, Vancouver, Canada, RFG 2018. Resources for Future Generations. Web: <http://www.rfg2018.org/rfg/2018/home>
- 17-22, IAMAS, Nara, Japan, ICAE 2018. 16th International Conference on Atmospheric Electricity. Web: <http://icae2018.saej.jp/>
- 18-20, IAG, GFZ, Potsdam, Germany, 1st Workshop on the International Geodynamics and Earth Tide Service (IGETS). Web: <https://isdg.gfz-potsdam.de/igets-data-base/igets-workshop-2018>
- 18-22, IAG, ICT, Rome, Italy, IX Hotine-Marussi Symposium on Mathematical Geodesy. Web: <https://sites.google.com/uniroma1.it/hotinemarussi2018>
- 23-28, CMG, IUGG, Nizhny Novgorod, Russia, 32nd IUGG Conference on Mathematical Geophysics (CMG). Web: <http://cmg2018.iapras.ru>
- 29-30, IAG, Wuhan, China, IAG workshop: Hydrogeodesy. Web: <http://hydrogeodesy2018.csp.escience.cn>

July

- 2-6, GFZ, IAGA, IUGG, SCOSTEP, Potsdam, Germany, 7th IAGA/ICMA/CAWSES Workshop on Vertical Coupling in the Atmosphere-Ionosphere System. Web: <https://www.gfz-potsdam.de/sektion/geodaetische-weltraumverfahren/themen/vcais-2018/>
- 2-7, NC Italy, Varenna, Italy, International School of Physics "Enrico Fermi" - Mechanics of Earthquake Faulting. Web: https://www.sif.it/corsi/scuola_fermi/mmxviii#202
- 7-8, IAMAS, Vancouver, Canada, Workshop on Evaluation of Cloud Probe Processing Software (ICCP). Web: <http://www.iccp-iamas.org/news.html>
- 8-13, SEDI, Edmonton, Canada, SEDI 2018 - 16th Symposium of the Study of the Earth's Deep Interior. Web: <https://sedi2018.sciencesconf.org/>
- 9-12, IAMAS, IUGG, Boulder, CO, USA, ISARRA 2018 - International Society for Atmospheric Research using Remotely piloted Aircraft. Web: <http://isarra.colorado.edu/>
- 14-22, COSPAR, IAG, Pasadena, CA, USA, COSPAR 2018. Web: <http://cospar2018.org/>
- 15-21, IAG, Pasadena, CA, USA, IAG Commission 1 Symposium Reference Frames for Applications in Geosciences (REFAG2018). Web: <https://www.cospar-assembly.org/admin/sessioninfo.php?session=683>
- 16-18, IAMAS, Madison, WI, USA, 13th Workshop on Antarctic Meteorology and Climate (WAMC). Web: <http://amrc.ssec.wisc.edu/meetings/meeting2018/>
- 31 July - 1 August, IACS, Dunhuang, China, International Workshop on Cryospheric Changes and their Regional & Global Impacts. Web: http://www.cryosphericciences.org/downloads/2018_newsWorkshopDunhuang-firstAnnouncement.pdf
- 30 July - 3 August, IAPSO, IUGG, Buenos Aires, Argentina, X Jornadas Nacionales de Ciencias del Mar, Web: <http://jornadasdelmar2018.exactas.uba.ar>

August

- 1-3, UN-GGIM, New York City, NY, USA, Eighth Session of the United Nations Committee of Experts on Global Geospatial Information Management. Web: <http://ggim.un.org/meetings/GGIM-committee/8th-Session/>
- 6-10, IGU, CAG, Quebec, Canada, 2018 IGU Regional Conference and Annual Meeting of the CAG. Web: <http://igu2018.ulaval.ca/>
- 6-10, IAGA, Santa Maria-RS, Brazil, 7th Symposium of the Brazilian Space Geophysics and Aeronomy Society (SBGEA). Web: <http://www.sbgea.org.br/en/vii-sbgea-2/>
- 12-17, IUSS, Rio de Janeiro, Brazil, RIO18. 21st World Congress of Soil Science. Web: <http://www.21wcss.org/>
- 13-20, IAGA, IUGG, Helsingør, Denmark, 24th Electromagnetic Induction Workshop. Web: <https://www.emiw.org/workshops/>
- 20-27, CCEC, IAMAS, NC China, Beijing and Lanzhou, China, 2018's IUGG Centennial Celebration Activities in China. Web: TBA
- 20-31, IAU, IAG, Vienna, Austria, 30th General Assembly of the International Astronomical Union. Web: <http://astronomy2018.univie.ac.at/>
- 26-31, IAHS, Birmingham, UK, Catchment Science Summer School 2018. Web: <https://www.usask.ca/watershed/teaching/catchment-science-summer-school.php#ClassDescription>
- 27-31, IAHS, Moscow, Russia, The Second International Young Scientists Forum on Soil and Water Conservation and ICCE symposium 2018 "Climate Change Impacts on Sediment Dynamics: Measurement, Modelling and Management". Web: <http://www.eng.geogr.msu.ru/IYFSWC/home.php>

IUGG Electronic Journal Volume 18 Number 6 (1 June 2018)

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