



**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

## **The IUGG Electronic Journal**

**Volume 18 No. 9 (1 September 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.

### **Contents**

1. Celebrating IUGG centennial anniversary around the world
2. Nominations for IUGG Fellows
3. Nominations for IUGG Officers (2019-2023)
4. 27<sup>th</sup> IUGG General Assembly: Union Lecturers
5. Report on the International Summer School in Glaciology 2018
6. Report on the IUGG Conference on Mathematical Geophysics (CMG2018)
7. Corrigendum
8. Meeting calendar

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### **1. Celebrating IUGG centennial anniversary around the world**

IUGG celebrates its 100th anniversary (1919-2019) with a series of scientific and public events around the world in 2018-2019. The list of events is as follows:

- International Summit on Earth Sciences: Earth Sciences and Sustainable Development (Beijing-Lanzhou, CHINA, 21-24 August 2018)
- Early Career Scientists Workshop on Atmospheric Sciences and Climate (Kagawa, JAPAN, 22-24 September 2018; <http://icacgp-igac2018.org/early-career-scientists/ec-short-course>)
- Planet Earth and Earth Sciences - Geophysics 100 Years (Puerto Vallarta, MEXICO, 30 October 2018)
- Geoscience Education and Outreach for Sustainable Transformational Change in the Middle East and North Africa (Amman, JORDAN, date TBD)
- AGU-IUGG Workshop on Disaster Science (Washington, D.C., USA, 9 December 2018)
- Knowing Planet Earth (Clermont-Ferrand & Paris, FRANCE, 2018-2019)
- Fostering Partnerships for the Advancement of Global Volcano Science (CARIBBEAN region, May 2019)
- XXVII IUGG General Assembly - Beyond 100: The next century in Earth and Space Science (Montreal, CANADA, 8-18 July 2019; <http://iugg2019montreal.com>)

- Centennial International Cooperation in Earth and Space Sciences (UNESCO Headquarters, Paris, FRANCE, 29 July 2019)
  - Implementation of the Resolution of the United Nations on the Global Geodetic Reference Frame for Sustainable Development in Latin America (La Plata, ARGENTINA, October 2019).
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## **2. Nominations for IUGG Fellows**

Fellowship (Honorary Membership) of the IUGG is a tribute to individuals who have made exceptional contributions to international cooperation in geodesy or geophysics and attained eminence in the field of Earth and space sciences. Nominations for an IUGG Fellowship can be submitted by Adhering Bodies/National Committees, Union Associations or Affiliated organizations. They should be addressed to Joyce E. Penner, Chair of the Union Fellow Selection Committee, and submitted before **20 September 2018** to the IUGG Executive Secretary Franz Kuglitsch with a copy to the IUGG Secretary General. For more information: <http://www.iugg.org/honors/Fellowship.pdf>

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## **3. Nominations for IUGG Officers (2019-2023)**

Nominations for members of the IUGG Bureau and Finance Committee are now being accepted. The first deadline for nominations is on **8 October 2018**. The Adhering Bodies of the Member Countries, the Officers of the Union, and the Officers of the Associations are eligible to nominate candidates. Guidelines for nominations were sent to Adhering Organizations and IUGG/Association officers. For further information, please contact the IUGG Secretariat ([secretariat@iugg.org](mailto:secretariat@iugg.org)).

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## **4. 27<sup>th</sup> IUGG General Assembly: Union Lecturers**

The 27<sup>th</sup> IUGG General Assembly will be held from 8 to 18 July 2019 in Montréal, Québec, Canada. IUGG is pleased to announce the following nine Union Lecturers:

- David Grimes (Canada, IUGG)
- Waleed Abdalati (USA, IACS)
- Kosuke Heki (Japan, IAG)
- Lisa Tauxe (USA, IAGA)
- Veena Srinivasan (India, IAHS)
- Ed Hawkins (UK, IAMAS)
- Karen Kohfeld (Canada, IAPSO)
- Vera Schlindwein (Germany, IASPEI)
- Paolo Papale (Italy, IAVCEI)

For more information: <http://iugg2019montreal.com/union-lecturers.html>

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## **5. Report on the International Summer School in Glaciology 2018**

Nearly 30 graduate students from more than 25 universities and 17 countries as far away as Nepal, India, Peru and New Zealand gathered in the small Alaskan village of McCarthy from 5 to 15 June 2018 to participate in the University of Alaska Fairbanks's (UAF) Fifth International Summer School in Glaciology. Steep ice-covered mountains provided the perfect setting to equip early stage PhD students with tools to address the expanding challenges in quantifying and modeling rapid changes in glaciers and ice sheets occurring in response to a warming climate, and to foster collaboration among students as well as established scientists in the field of glaciology. All eight instructors from the glaciology group at UAF, and three other US universities and institutions, stayed for the entire period, offering plenty of opportunity for interaction between the instructors and students during and outside the formal instruction period.

*Group photo (courtesy: Mark Fahnestock)*

Students took part in glaciology lectures, exercises and computer projects, and presented their own research in an outdoor poster session with posters pinned to the outdoor walls of the Wrangell Mountain Center or to laundry lines. Excursions to nearby glaciers provided hands-on experience of a glacial environment, a memorable experience especially for the almost ten students who (though studying glaciers) in fact had never been on a glacier. A number of evening activities rounded off the program, including a public lecture that attracted more than 50 locals and tourists. Overall, the course received extremely positive evaluations. Participants left not only with a stronger background in glaciology, but also with a network of professional contacts from around the world. A travel grant from IUGG supported one of the students.

Regine Hock, Summer School Organizer

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## 6. Report on the IUGG Conference on Mathematical Geophysics (CMG2018)

The Union Commission on Mathematical Geophysics (CMG) established in 1964 by the decision of the IUGG Executive Committee aims to encourage exchange of ideas and information in all areas of geophysics, with an emphasis on the application of mathematics, statistics and computer science to geophysical problems, and to promote the development and application of mathematical methods and appropriate theoretical techniques for the solution of problems across the complete spectrum of geophysical disciplines. The Commission has organized biennial conferences on mathematical geophysics since 1986.

### *Group photo*

The 32<sup>nd</sup> IUGG Conference on Mathematical Geophysics (CMG2018) was held in Nizhny Novgorod, Russia. The conference took place on a boat that cruised the Volga River with daily stops for the conference participants to visit historic sites such as museums, cathedrals, and churches. The boat departed on 23 June in the morning and returned to the city of Nizhny Novgorod on 28 June in the afternoon. About 90 representatives of more than 20 countries attended the conference. The Opening Ceremony of CMG2018 was held on 23 June. IUGG Secretary General Alik Ismail-Zadeh welcomed the conference participants on behalf of the Union President and the Bureau, and spoke on international research cooperation in Earth and space sciences emphasizing the importance of cooperation between geophysicists and pure and applied mathematicians.



*Oral session*



*Poster session*



*Daily excursions*



*Reception and Concert*

The conference participants were addressed by Alexander Feigin, Chair of the Local Organizing Committee (LOC) of CMG2018, and Yehuda Ben-Zion, Chair of CMG. The opening of the conference was celebrated by launching air balloons. CMG2018 covered a wide range of current research topics in mathematical geophysics. Key theoretical problems, recent advances in numerical modeling and data assimilation as well as observations and quantitative models in solid Earth, ocean, atmosphere, cryosphere, and climate were intensively discussed during the conference. A video report on the CMG2018 can be watched at [http://cmg2018.iapras.ru/Content/media/cmg2018\\_HD.mp4](http://cmg2018.iapras.ru/Content/media/cmg2018_HD.mp4).

Alik Ismail-Zadeh (photos, courtesy of CMG2018)

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## 7. Corrigendum

A corrigendum was made on the report on the 10th Workshop on Long-term Changes and Trends in the Atmosphere by Tao Li & Jia Yue (IUGG E-Journal, vol. 18, No. 8). In the original version of this article, the sentence regarding the number of participants and countries was incorrectly presented. This sentence has been now corrected in the PDF version of the E-Journal.

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## 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 may list more meetings on their websites according to their disciplines.

## September

- 1-8, IAVCEI, IUGG, San Pedro de Atacama, Chile, State of the Arc (SOTA 7). Web: <https://www.sota7.org/>
- 2-4, IAHS, WMO, Lyon, France, 4th IAHR-WMO-IAHS Training Course on Stream Gauging. Web: <https://riverflow2018.irstea.fr/program-2/training-course-on-stream-gauging/>
- 2-7, IASPEI, IUGG, Valetta, Malta, 36th General Assembly of the European Seismological Commission. Web: <http://www.escmalta2018.eu/de-DE/page/home>
- 2-7, IAVCEI, Naples, Italy, Cities on Volcanoes 10. Web: <https://www.citiesonvolcanoes10.com/>
- 10-13, IAG, Grenoble, France, 19th General Assembly of WEGENER. On Earth deformation & the study of earthquakes using geodesy and geodynamics. Web: <https://wegener2018.sciencesconf.org/>
- 10-19, GFZ, Potsdam, Germany, Potsdam Summer School 2018 – The Skin of the Earth. The Earth Surface System. Web: <http://potsdam-summer-school.org/>
- 17-21, EMSEV, Potenza, Italy, International 2018 EMSEV Workshop. Web: <http://web.unibas.it/emsev2018/index.php/en/>
- 17-21, IAG, Copenhagen, Denmark, Gravity, Geoid and Height Systems (GGHS 2) Symposium. Web: <http://www.space.dtu.dk/english/gghs2018>
- 17-21, IAGA, L'Aquila, Italy, Course of the International School of Space Science (ISSS) on "The Polar upper Atmosphere: From science to operational issues". Web: <http://www.cifs-iss.org/futurecourses.asp>
- 21-27, IAVCEI, Toba Caldera, Sumatra, Indonesia, 7th Workshop on Collapse Calderas. Web: <https://staff.aist.go.jp/geshi-nob/CCC/>
- 22-24, IAMAS, IUGG, Sodoshima Island, Japan, Early Career Scientists Workshop on Atmospheric Sciences and Climate. Web: <http://icacgp-igac2018.org/early-career-scientists/ec-short-course>
- 24-26, IAG, Ponta Delgada, Azores, Portugal, International DORIS Service (IDS) Workshop. Web: <https://ids-doris.org/ids/reports-mails/meeting-presentations/ids-workshop-2018.html>
- 24-26, IAHS, Adelaide, Australia, STAHY 2018. Web: <https://www.stahy2018.org/>
- 25-27, AGU, Washington, DC, USA, Chapman Conference on Hydrologic Research in the Congo Basin. Web: <http://chapman.agu.org/congo-hydrologic-research/>
- 25-29, IAMAS, IUGG, Takamatsu, Japan, 2018 joint iCACGP 14th Quadrennial Symposium and IGAC 15th Science Conference (iCACGP). Web: <http://icacgp-igac2018.org/>

## October

- 2-4, IAG, Tsukuba, Japan, GGOS Days 2018. Web: <http://176.28.21.212/en/meetings/2018/ggos-days/general/>
- 4-5, IAHS, Potsdam, Germany, International Conference on "Natural Hazards and Risks in a Changing World". Web: <http://www.j-work.de/up/nathazardsrisk/>
- 9-12, IAG, PAIGH, Aguascalientes, Mexico, SIRGAS 2018, Web: <http://geoweb2.inegi.org.mx/sirgas2018/html/en/index.html>
- 15-17, IAG, PAIGH, Aguascalientes, Mexico, SIRGAS Workshop 2018 on Vertical Reference System. Web: <http://geoweb2.inegi.org.mx/sirgas2018/html/en/index.html>
- 16-18, IAHS, Xi'an, China, International Symposium of Eco-Hydrology and Water Security: Opportunities & Challenges from Developing Countries. Web: <https://iahs.info/uploads/Meetings/2018%27International%20Symposium%20in%20Xian%2C%20China.pdf>

- 24-26, GEO, Kyoto, Japan, 11th GEOSS Asia-Pacific Symposium. Web: <https://aogeoss.com/en/>
- 25-27, IAHS, Harare, Zimbabwe, 3rd IAHS Panta Rhei Conference. Web: [https://iahs.info/uploads/Meetings/IAHS\\_Zim\\_2018\\_PantaRhei.pdf](https://iahs.info/uploads/Meetings/IAHS_Zim_2018_PantaRhei.pdf)
- 28 October – 2 November, Mexican Geophysical Union, IUGG, Puerto Vallarta, Jalisco, México, Annual Meeting. Web: <https://www.raugm.org.mx>
- 29 October - 2 November, GEO, Kyoto, Japan, GEO Week 2018. Web: <http://earthobservations.org/geo15.php>
- 29 October - 2 November, IAG, Wuhan, China, IGS 2018 Workshop. Web: <http://igsworkshop2018.gnsswhu.cn/>

### **November**

- 4-6, IAG, Shanghai, China, International Workshop on GNSS Ionosphere (IWGI2018). Web: <http://202.127.29.4/geodesy/iwgi2018/>
- 5-8, CODATA, WDS, Gaborone, Botswana, International Data Week 2018. Web: <http://www.codata.org/events/conferences/international-data-week-2018>
- 5-9, IAG, Canberra, Australia, 21st International Workshop on Laser Ranging. Web: <http://www.iwlr2018.serc.org.au/>
- 5-9, 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/>
- 6-8, IAHS, UNESCO-IHP, Beijing, China, 8th Global FRIEND Water Conference. Web: <http://8thfriendwater.iahr.org.cn>
- 9-10, CODATA, Gaborone, Botswana, 31st CODATA General Assembly. Web: <http://www.codata.org/events/general-assembly/general-assembly-2018>
- 12-18, IAMAS, Puerto Rico, Aerosol Training School as part of the Caribbean Aerosol-Health Network (CAHN). Web: <http://www.igacproject.org/working-groups/AmericasWG/2017School>

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