



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

## **The IUGG Electronic Journal**

**Volume 22 No. 10 (1 October 2022)**

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 the actions of the IUGG Secretariat, Bureau, and Executive Committee. Past issues are posted [here](#). E-Journals may be forwarded to those who will benefit from the information. Your comments are welcome.

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### **1. IUGG – Grants Program 2022-2023 (Special Call): Awardees**

In July 2022, the IUGG decided to issue the IUGG Grants Program 2022-2023 (Special Call) which is dedicated to the International Year of Basic Sciences for Sustainable Development (IYBSSD2022). The program aims to support projects which address international cooperation in Earth and Space Sciences and that highlight the importance of basic science for sustainable development.

The IUGG awarded grants to the following projects:

- ***Geosciences for Sustainable Development*** (a joint project between CCEC and IAPSO)
- ***2023 Glacial Isostatic Adjustment (GIA) Training School*** (a joint project between IACS and IASPEI)
- ***Workshop in Geodesy and SAR*** (a joint project between IAG and IASPEI)
- ***Sixth Meeting of ITU/WMO/UNEP Focus Group on AI for Natural Disaster Management*** (a joint project between IAMAS and IAG)
- ***Heat Flow Summer School & Workshop*** (a joint project between IAPSO, IASPEI, and IAVCEI)
- ***Towards creating and launching the Network for African Volcanologists (NAV)*** (a joint project between IASPEI and IAVCEI)

- *Celebrating the 80th anniversary of Parícutin volcano (Michoacán, Mexico): Preserving our heritage and preparing for future eruptions; February 19-24, 2023* (a joint project between IAVCEI and IASPEI)
- *Improving earthquake preparedness through geoscience education in the Himalaya* (a joint project between SEDI, IASPEI, and ILP)

The total funding is USD 65,000.

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## 2. IUGG – Bureau Meeting 2022

After more than three years, the IUGG Bureau Members and the Chair of the Finance Committee met again in person on 20 and 21 September 2022 in Berlin and Potsdam, Germany, to discuss the administration and finance of IUGG, to visit the venue of the IUGG General Assembly 2023 ([IUGG2023](#)), and to meet with representatives of the Local Organising Committee ([LOC](#)), the Scientific Program Committee ([SPC](#)), and the German Research Centre for Geosciences ([GFZ](#); the host of IUGG2023) to discuss the preparations for IUGG2023. In addition, the Memorandum of Understanding between IUGG and GFZ was signed.



*Left picture: participants of the IUGG Bureau Meeting 2022, Kathy Whaler (President), Chris Rizos (President-elect), Alex Rudloff (Secretary General), Steve McNutt (Bureau Member), Aksel Hansen (Treasurer 1999-2019), Corina Risso (Chair of the Finance Committee), Franz Kuglitsch (Executive Secretary), and Eduard Petrovsky (Bureau Member) (fLTR). Niels Andersen (Treasurer; top left corner)*

*Right picture: Kathy Whaler and Alex Rudloff signing the Memorandum of Understanding on behalf of IUGG*

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## 3. IUGG – Bureau and Finance Committee Members (2023-2027): Nominations due on 11 October 2022

Nominations for members of the IUGG Bureau and Finance Committee are now being accepted. The first deadline for nominations is **11 October 2022**. The Adhering Bodies of the Member Countries, the Officers of the Union, and the Officers of the Associations are eligible to nominate candidates. The guidelines for nominations were sent to the Adhering Bodies and the IUGG/Association Officers. More information can be found [here](#).

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#### 4. IUGG – Gold Medal 2023: Nominations due on 20 October 2022

The *IUGG Gold Medal* is the highest honour awarded by IUGG. The medal was established in 2013 to recognise Earth and Space Scientists for outstanding contributions to geodesy and geophysics and for unselfish international cooperation in research. The deadline for submission of nominations for the IUGG Gold Medal is **20 October 2022**. The nominations will be examined by the [IUGG Gold Medal Committee](#), which is chaired by Tom Beer (Australia). The Gold Medal is awarded to one individual. Details on the IUGG Gold Medal, including the procedure for nomination, eligibility criteria, and technical requirements, can be found [here](#).

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#### 5. IUGG attending the DGG100 Celebrations in Berlin

President Kathy Whaler attended in person the celebration of the German Geophysical Society's Centennial event (DGG100) on 19 September 2022, in Berlin, Germany. The event took place in the premises of the State Representation of the Free State of Saxony, as a reference to the fact that the DGG was founded in Leipzig in 1922. About 50 people attended the exclusive event, which included a programme of greetings, birthday greetings, impulses, messages from IUGG, AGU and EGU, and a historical review of 100 years of DGG.



*Kathy Whaler, promoting the IUGG General Assembly 2023 (left) and framed by the IUGG Secretary General and DGG President Thomas Bohlen, from the Karlsruhe Institute of Technology (KIT), pictures: DGG (photothek/Liesa Johannsen), 2022*

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#### 6. SCAR – 37th Delegates Meeting: Meeting Report



The Scientific Committee on Antarctic Research ([SCAR](#)) is an interdisciplinary committee of the International Science Council ([ISC](#)). SCAR is charged with initiating, developing and coordinating high quality international scientific research in the Antarctic region including the Southern Ocean, and on the role of the Antarctic region in the Earth System. IUGG has been one of nine Union Members of SCAR since its inception in 1958, and is hence entitled to send a voting Delegate to the biennial SCAR Meetings. The 37th Delegates Meeting of SCAR was hosted by India and held as a hybrid meeting in Goa and on-line. The associated 10th SCAR Open Science Conference

(OSC), originally planned for Hyderabad, India, was held entirely on-line from 1 to 10 August 2022. Over 2,700 participants registered for the OSC.

The SCAR Delegates Meetings conduct administrative business and formulate scientific policy and strategy. The 2022 meeting was run as five 3-hour on-site/on-line sessions from 5 to 7 September 2022. It was attended by over 70 Delegates and observers, including Delegates representing six of the nine ISC Unions. About 30% attended in person, and the rest on-line. Ian Allison was the IUGG Delegate and Andrew Mackintosh attended as an Observer for the International Association of Cryospheric Sciences; both on-line. IACS has a 3-party MoU on collaboration with SCAR and the International Arctic Science Committee (IASC) that was developed following the International Polar Year 2007-2008, and renewed in 2013 and 2020.

Delegates agreed by consensus to accept the application from Luxembourg to be a new Associate National Member. SCAR now has 33 full National Members, 13 Associate National Members and 9 ISC Union members. Two new Vice-Presidents were elected at the meeting. They are Marcelo Leppo (Chile) and Burcu Özyö (Türkiye/Turkey), replacing Vice-Presidents Muthalagu Ravichandra (India) and Gary Wilson (New Zealand). The 38th SCAR Delegates Meetings will be hosted by Chile in Pucón.

SCAR scientific activities are managed by three Science Groups (SGs) for Physical, Geo-, and Life Sciences. In addition, there is a Standing Committee on the Humanities and Social Sciences. Under each of these disciplinary bodies there are sub-groups that deal with specific research areas. Expert Groups deal with ongoing issues and Action Groups tackle issues that can be addressed within a limited time period of several years. Several of these groups undertake activities that are relevant to IUGG. For example, one recent Geosciences group is the Expert Group on Antarctic Volcanism (AntVolc). This group, which promotes the study of Antarctic volcanism and dissemination of relevant data, has strong overlaps with the Joint IACS-IAVCEI Commission on Volcano-Ice Interactions. Another is the RINGS Action Group sponsored by the SCAR Geoscience and Physical Science Groups. RINGS aims to better characterise the margin of the Antarctic Ice Sheet, providing improved knowledge of ice-ocean interactions and particularly the ocean cavities beneath ice shelves. This activity overlaps with the IAPSO-IACS Joint Commission on Ice-Ocean Interaction, and the two groups share personnel.

SCAR focuses its international collaborative science efforts on high priority topics through Scientific Research Programs (SRPs), which are often multi-disciplinary and are approved by Delegates. These receive modest management funding (not implementation funding) from SCAR for a fixed period. Three new programs began in January 2021. These address conservation and management of Antarctica and the Southern Ocean (“Ant-ICON”), Antarctica’s contribution to sea level and the way in which interactions between the ocean, atmosphere and cryosphere influence ice-sheets in the past and future (“INSTANT”) and the prediction of near-term conditions in the Antarctic climate system on timescales of years to multiple decades (“AntClimNow”). Progress on advancing these SRPs has been somewhat curtailed by COVID. Details of the SRPs, past and present, can be found on the SCAR [website](#). AntClimNow and INSTANT are leading a large number of climate and ice sheet activities of primary interest to IAPSO, IAMAS and IACS.

One item that generated more than usual feedback at the meeting was a proposal to conduct a fifth International Polar Year in 2032/33, 25 years after the last. To gauge interest from the Antarctic research community in this proposal, SCAR ran a community survey. Nearly 80% of the respondents agreed that there should be an IPY in 2032/33 and that they would participate, and nearly 90% thought that SCAR should take a leadership role in planning for the next IPY. Delegates hence endorsed the creation of an IPY Planning Committee within SCAR to participate in discussions and planning within the wider polar community. Discussions within the wider polar community have already

started, and IACS Vice President Andrew Mackintosh has participated in the early planning meetings for the fifth International Polar Year as a representative of the ISC.

Delegates also reviewed and approved the SCAR Strategic Plan for 2023-28. This had been drafted by a committee with diverse membership representing SCAR leadership, members, partners, and other stakeholders. The 2023-28 Strategic Plan maintains a strong focus on facilitating international science coordination, addressing scientific issues related to Antarctica's role in global climate change and in Southern Ocean biodiversity, and in providing evidence-based advice to the Antarctic Treaty System and to other policy bodies. Two new issues introduced in this Plan were consideration of a SCAR carbon footprint reduction, and of Equality, Diversity and Inclusion.

IUGG continues to be one of the ISC Member Unions that interacts more actively with SCAR. Please contact either of us if you would like further information about SCAR or its programs that could help develop closer collaboration from IUGG and its Associations.

Ian Allison, IUGG Liaison Officer to SCAR and Andrew Mackintosh, IACS Vice-President

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## 7. ISC – Science Affected by Disasters

Science has been always influenced by disasters due to military conflicts or other social and natural events. The most recent military conflict in Ukraine as well as long-term conflicts in Afghanistan, Iraq, Syria and elsewhere deeply affected the science systems of the countries. The



**International  
Science Council**

International Science Council (ISC) in partnership with All European Academies, Kristiania University College, and Science for Ukraine co-hosted the conference on the Ukraine crisis to discuss responses from the European higher education and research sectors to the crisis. Participants reflected on the assistance provided to date for Ukrainian scientists and students, who are at-risk, displaced, and refugees, and put forward [key recommendations](#) on how to support science sectors in Ukraine as well as in the countries affected by conflicts and disasters. The recommendations are related to:

1. **RESPONSIBILITY.** Governments, the higher education, scientific and research community (“The stakeholders” hereinafter) must work together to deliver their national commitments to recognising and supporting the right to education and science within their country.
2. **INTERNATIONAL SOLIDARITY.** The stakeholders must work together to deliver their national commitments for supporting the participation of at-risk, displaced and refugee scholars and researchers in their home country or a third country if necessary.
3. **OPENNESS.** The international scientific and research community should empower conflict affected science systems with the means to rebuild by fully adopting the UNESCO recommendation on Open Science.
4. **INCLUSION.** The stakeholders must ensure that programs and opportunities are designed inclusively to avoid exclusion of specific groups of at-risk, displaced and refugee scholars and researchers based on characteristics such as language, family status, gender, disability, cultural background, and psychosocial wellbeing.
5. **MOBILITY.** The stakeholders must work together to develop global mechanisms and coordination structures that facilitate secure academic and scientific mobility and to ensure the potential of displaced and refugee scholars and researchers is not lost.
6. **FLEXIBILITY.** The stakeholders must recognise the evolving needs of academics, researchers and students by designing more flexible programmatic and funding models that enable changes in location and allow for both remote and in-person participation.

7. PREDICTABILITY. The stakeholders must work together to develop sustainable frameworks within and between national scientific, higher education and research systems that enable a more predictable and effective approach to the phases of preparedness, response and rebuilding in the aftermath of conflict or disaster.

ISC Members including the IUGG are kindly invited to explore how these recommendations can be implemented on different levels.

Scientific collaboration across borders has benefits by creating resilience. “Where there is collaboration, students, fellows, and scientists can find temporary homes; when they return, they can bring equipment and reagents, they will bring ideas and new colleagues, and a faster recovery is possible. Scientific collaboration across borders should become seen as a critical strategic need by all countries,” Peter Gluckman, ISC President, told the conference. International scientific collaboration is at the heart of disaster-related science diplomacy, which enhances resilience to cope with disasters while simultaneously reducing conflicts and fostering cooperation between states, where relations might otherwise be [strained](#), and promotes [disaster risk reduction](#).

Alik Ismail-Zadeh, IUGG Fellow and ISC Fellow

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## 8. Awards and Honours

### *American Geophysical Union (AGU)*

AGU announced its [Fellows](#) for their outstanding achievements and contributions to Earth and space science, as well as its [Section Awardees and Named Lecturers](#) who will be honoured for their sustained and unique contributions to advancing our understanding of Earth, its atmosphere and oceans, and planets and astral bodies beyond our own. The awardees will receive their honours at the [2022 AGU Fall Meeting](#). Among the 2022 Union Awardees, Fellows, Section Awardees and Named Lecturers are the following scientists who have been active in IUGG: **Chen-Tung Arthur Chen** (China-Taipei), IACS National Correspondent (since 2015), was awarded Fellow; **Catherine Constable** (USA), Executive Committee Member of the Union Commission on the Study of the Earth's Deep Interior (SEDI, since 2000), was named the Edward Bullard Lecturer; **Dorthe Dahl-Jensen** (Canada/Denmark), Secretary of the Danish National Committee (2002-2006), was awarded Fellow; **Gabi Laske** (USA), Chair, IASPEI Working Group on Reference Earth Models (2002-2019), was awarded Fellow; **Philippe Lognonné** (France), Executive Committee Member of the Union Commission on Planetary Sciences (UCPS, since 2016) was named the Beno Gutenberg Lecturer; **Harald Schuh** (Germany), IAG President (2015-2019), was awarded the Ivan I. Mueller Award for Distinguished Service and Leadership; **Marc Spiegelman** (USA), Secretary, Union Commission on Mathematical Geophysics (CMG, 2003-2006), was awarded Fellow; and **Peter Ulmer** (Switzerland), IAVCEI National Correspondent (2003-2019), was awarded the Norman L. Bowen Award and was named the Norman L. Bowen Lecturer.

### *International Association of Cryospheric Sciences (IACS)*

The 2022 Graham Cogley Award, given by IACS and the International Glaciological Society (IGS), which recognises excellence in glaciological research by an early career scientist, was given to **Gavin Piccione** (USA), **Devon Dunmire** (USA), and **Jonathon Preece** (USA).

***Congratulations!***

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## 9. Obituary

With great sadness IUGG reports the death of *David Thomas Pugh (1943-2022)*, IOC-UNESCO Chair from 2003 to 2007, and IUGG Representative to the ICSU Federation of Astronomical and Geophysical Data Analysis Services (FAGS) from 2003 to 2007. He was director of the IAPSO Permanent Service for Mean Sea Level ([PSMSL](#)), chairman of the IAPSO Commission on Sea Level and Tides, and proponent of Global Sea Level Observing System ([GLOSS](#)). An obituary can be found [here](#).

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## 10. Important IUGG Deadlines

- 11 October 2022:** [Submit nominations for IUGG Bureau and Finance Committee Members \(2023-2027\)](#).
- 20 October 2022:** [Submit nominations for the 2023 Gold Medal](#).
- 11 January 2023:** [Submit proposals to host the 29th IUGG General Assembly in 2027](#).
- 11 January 2023:** [Submit proposals for changes to the Statutes and By-Laws](#).
- 31 January 2023:** [Submit Draft Resolutions for the 28th IUGG General Assembly in 2023](#).
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## 11. Meeting Calendar

This calendar includes meetings which are planned to be organised in the next three months under the umbrella of IUGG, and major conferences of IUGG's partner organisations. The calendar is updated regularly and is also available [online](#). If you would like to add a meeting, or report changes, please contact the [IUGG Secretariat](#).

### October

- 3-5, IASPEI, IUGG, Quito, Ecuador, [4th Regional Assembly of the Latin American and Caribbean Seismological Commission \(LACSC-2022\)](#)
- 4-6, SCOR, Busan, Rep. of Korea, [2022 SCOR Annual Meeting](#)
- 10-13, IASPEI, IUGG, Hurghada, Egypt, [14th General Assembly of the Asian Seismological Commission and 3rd General Assembly of the African Seismological Commission](#)
- 10-14, UN-GGIM, Hyderabad, India, [Second United Nations World Geospatial Information Congress](#)
- 17-19, GEO, ISC, WMO, UNESCO-IOC, Darmstadt, Germany, [2nd Climate Observation Conference](#)
- 17-19, IACS, IAPSO, [Online workshop on ice-ocean interaction](#)
- 17-20, IAG, Thessaloniki, Greece, [REFAG 2022 – IAG International Symposium on Reference Frames for Applications in Geosciences](#)
- 17-21, IAHS, Bydgoszcz, Poland, [IAHS/ICCE International Symposium 'River sediment quality and quantity: environmental, geochemical and ecological perspectives' \(ICCE2022\)](#)
- 17-21, IAHS, Copenhagen, Denmark, [Quantitative Isotope Hydrology Course](#)
- 17-21, IASPEI, Cargèse, France, [STATSEI 12: International conference on statistical seismology](#)
- 21-23, IAG, Thessaloniki, Greece, [Unified Analysis Workshop \(UAW\) 2022](#)
- 25-29, IAG, IASPEI, Marrakech, Morocco, [20th Assembly of Wegener](#)
- 31-4 November, GEO, Accra, Ghana, [GEO WEEK 2022](#)

### **November**

- 1-4, ISPRS, Beijing, China, [ISPRS Workshop Geo-Informatics Supported Disaster Risk Reduction and Smarter Urban Management](#)
- 7-9, IAG, Santiago de Chile, Chile, [SIRGAS Symposium 2022](#)
- 7-11, IAG, Kunming, China, [22nd International Workshop on Laser Ranging](#)
- 14-15, IAG, Munich, Germany, [GGOS Days 2022](#)
- 27-2 December, IAGA, São José dos Campos, Brazil, [XIII Latin American Conference on Space Geophysics \(COLAGE\)](#)

### **December**

- 9-12, IAHS, Zhuhai City, China, [IAHS-ICWQ International Workshop on Flood-drought chain disasters and water ecological degradation in a changing environment](#)
- 12-16, AGU, Chicago IL, USA, [AGU Fall Meeting 2022](#)

### **IAVCEI Scientific Assembly 2023**

- 30 January-3 February 2023, IAVCEI, Rotorua, New Zealand, [IAVCEI Scientific Assembly](#)

### **IUGG General Assembly 2023**

- 11-20 July 2023, IUGG, Berlin, Germany, [IUGG General Assembly 2023](#)

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