

IASPEI Newsletter

April 2022

IN THIS ISSUE

Foreword.....	1
IUGG General Assembly 2023	2
IUGG General Assembly 2023 – Joint Symposia.....	2
African Seismological Commission – General Assembly3	
Reducing our carbon footprint.....	4
International Science Council (ISC) – Statement Regarding the War in Ukraine.....	4
CoEO Workshop Report	5
Meetings Calendar	5
General Information about IASPEI.....	6

Foreword

Dear Readers,

I hope this Newsletter finds you all well.

During the last two years, the ongoing COVID-19 pandemic strongly influenced our international cooperation and Association activities. Now, when in some parts of the world the pandemic situation is slowly getting better, we got shocked by the outbreak of a new war in Europe with new travel restrictions and unknown consequences for future international cooperation in geosciences. Without the continuation and intensification of our international cooperation we will have no chance to address and manage the well known global challenges due to climate change and geohazards.

The different contributions in this Newsletter are all related to these topics. We document actual status of the plannings for the forthcoming IUGG GA in Berlin in 2023 and the

next AfSC GA, an initiative of our sister Association IAPSO regarding our carbon impact, a statement of the International Science Council (ISC) regarding the ongoing war in Ukraine and a workshop report from our Commission on Education and Outreach.

If you plan to participate in any events in 2022, please regularly check the corresponding webpages in our Meetings Calendar.

Please do not forget to send me information or corrections about international conferences and workshops with IASPEI related topics. This list can only be complete and correct when I receive information about such events and can update the Meetings Calendar of future Newsletters.

All the best and stay healthy,

Johannes Schweitzer
Secretary General

IUGG General Assembly 2023



The 28th IUGG General Assembly (IUGG2023 GA, <https://www.iugg2023berlin.org>) will be held from 12 to 19 July 2023 at the City Cube in Berlin, Germany. The IUGG GA is one of the world's most important geoscientific events, with more than 5000 participants. It takes place every four years. The 28th General Assembly will be organized by GFZ and will therefore be a special occasion for GFZ and its international partners to present their common research.

After more than two years of online/hybrid scientific meetings this General Assembly is a special opportunity for participants from around the world to meet again. The full range of geodetic and geophysical themes will be discussed including atmospheric, oceanographic, hydrological, and cryospheric sciences. Our program will further enhance the important interdisciplinary collaboration for a better understanding of our Earth System.

IUGG 2023 will provide a platform for personal meetings, exchange of ideas and developing new concepts for international science collaboration, all of which have suffered a setback during this pandemic crisis. IUGG 2023 will help to create a new spirit to address large societal challenges such as global environmental change and natural hazards and to stimulate novel geoscience research.

The Berlin-Brandenburg region is home to one of the largest geoscientific clusters in the world. Participants will have a unique opportunity to meet their international project partners again in person or to combine their participation with a visit to the research organizations GFZ, AWI or DLR. We are planning a prominent excursion program, and especially for young scientists we would like to provide opportunities for exchange, presentation, and discussion in addition to the official agenda.

Important dates for Assembly participants:

- 30 September 2022
Call for abstracts, travel grants, and registration opens
- 17 February 2023
Abstract submission closes
- 17 March 2023
Information on abstract acceptance
- 28 April 2023
Early bird registration closes
- 02 June 2023
Publication of program

LOC of the IUGG 2023

IUGG General Assembly 2023 – Joint Symposia

During a meeting on 6 April 2022, the Scientific Program Committee (SPC) for the IUGG GA finalized the list of all Joint Symposia. For now, 55 Joint Symposia are planned. IASPEI is participating in 29 of them and will lead 9 of the Joint Symposia. The next steps are finalizing all Symposia descriptions and convener lists, and the organization of the IASPEI-only Symposia. Please take a look in the following list of planned Joint Symposia with IASPEI participation and do not hesitate to propose IASPEI Symposia for topics not yet covered by the Joint Symposia.

Symposia lead by IASPEI:

- Cryoseismology
- Seismo – Geodesy
- Probing the Earth's lithosphere: Understanding tectonic, volcanic, cryogenic and geodynamic processes using geophysical modeling
- Monitoring, Imaging and Mapping of Volcanic Areas
- Real-time GNSS data and products usage in geophysics
- Geophysical Constraints on the Earth's Core
- Integrated Imaging of the Earth: From joint inversion to geological modelling and other quantitative approaches
- Advances in Heat Flow Studies: from fundamental geodynamic understanding to geothermal energy applications
- Early Warning Systems for Geohazards

Symposium lead by IACS and with IASPEI participation:

- Mountain Cryosphere Hazards

Symposia lead by IAG and with IASPEI participation:

- Interactions of the solid Earth and ice sheets
- Modern Gravimetric Techniques for Geosciences

Symposia lead by IAGA and with IASPEI participation:

- New title TBD (Artificial Intelligence, Machine learning)
- Marine geodesy and geophysics
- New title TBD (EM, Earthquakes, Tsunami's and Volcanic Activity, etc.)
- Analogue Data for the Future: Preservation and Present-Day Utilization of Historical Data in the Geosciences
- Data assimilation and statistical modelling approaches in Earth and space sciences

Symposia lead by IAHS and with IASPEI participation:

- Data sharing within the Earth and Environmental Science community
- Anthropocene: perspectives from and within geophysics

- Citizen science, crowdsourcing and innovative monitoring for advancing geo-sciences
- Education & Outreach in Geosciences

Symposium led by IAMAS and with IASPEI participation:

- Polar regions instrumentation

Symposia lead by IAPSO and with IASPEI participation:

- Ice sheet-ocean interactions: challenges and insights from theory, observations and modelling
- Tides
- Tsunamis

Symposia lead by IAVCEI and with IASPEI participation:

- Volcano seismology
- Strain Localisation and Seismic and Volcanic Hazards
- Geophysics of solar system planets
- Structure and composition of the Earth mantle and crust

African Seismological Commission (AfSC) – General Assembly

In December 2018, Botswana won the bid to host the third General Assembly (GA) of the African Seismological Commission (AfSC). The General Assembly was originally to be hosted by the Botswana Geoscience Institute (BGI) in Kasane from 28th June – 04th July 2020.

However, due to the global COVID-19 pandemic the dates for the GA were postponed a number of times and the meeting unfortunately never managed to occur.

Considering these developments, the executive committee of the AfSC explored the possibility of co-organising a joint GA with the

Asian Seismological Commission in Egypt during 10 – 13 October 2022.

The executive committee realises the immense benefits such a joint GA would bring to encouraging the collaboration between Asian and African seismologists and believes that a joint GA in 2022 would attract many more scientists than either commission could do alone. Furthermore, and in agreement with the BGI, the executive committee suggested to maintain the 2024 AfSC GA in Botswana.

Michelle Grobbelaar, SG AfSC

Reducing our carbon footprint

Our sister Association, the International Association for the Physical Sciences of the Oceans (IAPSO), has proposed an action plan “Reducing the Carbon Footprint by the Research Community” to be discussed and adopted during the forthcoming IUGG General Assembly in Berlin in 2023. Since this topic is as relevant for IASPEI as for many other research communities, I document here the IAPSO proposal to stimulate a discussion in the IASPEI community. I am looking forward to receiving your opinions and ideas on how to deal with this problematic:

At the Berlin IUGG General Assembly in July 2023 IAPSO adopted the following action plan to reduce its carbon footprint. As a constituent association of IUGG, IAPSO hosts a major in-person scientific meeting every two years, one of which is in conjunction with the General Assembly of IUGG held every 4 years. In-person meetings bring many benefits, including networking opportunities as well as time for in-depth discussion of scientific and administrative issues. IAPSO supports the continuation of air travel to these bi-annual meetings, although IAPSO will work to reduce its overall carbon footprint through some specific actions, including:

- Meeting locations should be optimised to reduce travel (for example by holding meetings at or near transport hubs or global population centres).

- IAPSO assemblies should encourage and facilitate hybrid online engagement to complement the in-person programme.

- IAPSO encourages the use of ground transportation instead of air travel and prefers meeting sites that can be reached in under eight hours by ground transportation for most participants.

- From July 2023, IAPSO will participate only via videoconference for any standalone IUGG business meetings not held during an IUGG General Assembly. In-person participation may be supported only in exceptional cases if the business meeting site can be reached by train or other ground transportation.

- IAPSO will continue to hold its annual bureau meetings via teleconferencing or as a hybrid meeting.

International Science Council (ISC) – Statement Regarding the War in Ukraine

End of February 2022, the International Science Council (ISC) published a statement regarding the ongoing war in Ukraine and its influence on international scientific cooperation (<https://council.science/current/news/isc-statement-ukraine/>). The resolution has been embraced by the IUGG ExeCom (see also <http://www.iugg.org/publications/ejournals/IUGG2203.pdf>).

CoEO Workshop Report

The IASPEI Commission on Education and Outreach organized in collaboration with

- a) South Asia Alliance of Disaster Research Institutes (SAADRI),
- b) National Science and Technology Center for Disaster Reduction (NCDR), Taiwan,
- c) Multidisciplinary Centre for Geoinformatics, Delhi Technological University (DTU) and
- d) National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India

a three-day long virtual international **Workshop on “Role of Early Warning System in Geo-Meteorological Hazards Risk Reduction”**, which was held from 8 – 10 December 2021.

The aim of the workshop was primarily to provide opportunities to early career researchers, faculty members, policy makers and other stakeholders to enrich their knowledge, teaching skills and research in the field of early warning and geo-meteorological hazards risk reduction. The workshop was attended by 264 early career researchers, professionals and stakeholders from 10 countries. The workshop experts were from Norway, Taiwan, Nepal, Canada, India, Italy, Mexico and United Kingdom.



Raju Sarkar, CoEO Chair and the Workshop’s organizer

Meetings Calendar

We report below titles, dates, places and websites of the forthcoming meetings relevant to the interests of IASPEI scientists. If you are aware of events not listed below or changes regarding these events, please inform the Secretary General.

2022

SSA Annual Meeting 2022

April 19 – 23, 2022, Bellevue, Washington, USA

URL: <https://meetings.seismosoc.org/>

EGU General Assembly 2022

May 23 – 27, 2022, Vienna, Austria

URL: <https://www.egu22.eu/>

Čermák7 – 7th International Meeting on Heat Flow and the Thermal Structure of the Lithosphere

June 20 – 22, 2022, Potsdam, Germany

URL: <https://cermak7.ihfc-iugg.org>

SEDI 2022

July 11 – 15, 2022 Zurich, Switzerland

URL: <https://sedi2022.earth.sinica.edu.tw>

12th National Conference on Earthquake Engineering

June 27 – July 1, 2022, Salt Lake City, Utah, USA

URL: <https://12ncee.org/call-for-papers>

19th Annual Meeting AOGS

August 1 – 5, 2022, (virtual)

URL: <https://www.asiaoceania.org/aogs2022>

3rd European Conference on Earthquake Engineering and Seismology
September 4 – 9, 2022, Bucharest, Romania
URL: <https://3eceeds.ro/>

LACSC 4th General Assembly
October 3 – 5, 2022, Quito, Ecuador

**ASC 14th (hybrid) General Assembly
AfSC 3rd (hybrid) General Assembly**
October 10 – 13, 2022, Hurghada, Egypt
URL: <https://asc2022.com/>

STATSEI 12: International conference on statistical seismology
October 17 – 21, 2022 Cargèse, France
URL: <https://statsei12.sciencesconf.org>

Deep Earth Doctoral School
October 24 – November 4, 2022, Les Houches, France
URL: <https://deearthschool.github.io/>

XXth General Assembly of WEGENER
October 25 – 29, 2022, Marrakech, Morocco
URL: <https://wegener2021.sciencesconf.org>

AGU Fall Meeting
December 12 – 16, 2022, Chicago, USA
URL: <https://www.agu.org/Fall-meeting-2022>

2023

EGU General Assembly 2023
April 23 – 28, 2023, Vienna, Austria

IUGG 28th General Assembly
July 2023, Berlin, Germany
URL: <https://www.iugg2023berlin.org/>

20th Annual Meeting AOGS
July 30 – August 4, 2023, Singapore

AGU Fall Meeting
December 11 – 15, 2023, San Francisco, USA

2024

EGU General Assembly 2024
April 14 – 19, 2024, Vienna, Austria

AGU Fall Meeting
December 2024, Washington, USA

2025

IASPEI 43rd Scientific Assembly as Joint Assembly with IAGA
2023, Lisbon, Portugal

AGU Fall Meeting
December 2025, New Orleans, USA

2026

AGU Fall Meeting
December 2026, San Francisco, USA

General Information about IASPEI

The International Association of Seismology and Physics of the Earth's Interior [IASPEI] is one of the eight Associations of the International Union of Geodesy and Geophysics [IUGG].

The other IUGG Associations are:

Int'l Association of Cryospheric Sciences [IACS]

Int'l Association of Geodesy [IAG]

Int'l Association of Geomagnetism and Aeronomy [IAGA]

Int'l Association of Hydrological Sciences [IAHS]

Int'l Association of Meteorology and Atmospheric Sciences [IAMAS]

Int'l Association for the Physical Sciences of the Oceans [IAPSO]

Int'l Association of Volcanology and Chemistry of the Earth's Interior [IAVCEI]

Scientific Assemblies

IASPEI holds an Ordinary General Assembly every four years in conjunction with each Ordinary General Assembly of IUGG. Between the General Assemblies, IASPEI holds a Scientific Assembly, sometimes meeting with one of the other Associations of IUGG.

Participation in IASPEI Activities

Since July 2015, all scientists participating in IASPEI activities are counted as members of IASPEI (see <http://www.iaspei.org/statutes.html>). IASPEI welcomes all scientists throughout the world to join in seismological research.

IASPEI is subdivided into several Commissions, many of which have working groups for the study of particular subjects in their general areas of interest. On occasion, these internal IASPEI groups issue their own newsletters or circulars and many maintain their own websites. At the IASPEI Assemblies, the groups organize specialist symposia, invite scholarly reviews and receive contributed papers that present up-to-the-minute results of current research. The IASPEI web site gives, or provides links to, information on the range of IASPEI activities.

The IASPEI Website

IASPEI can be found on the web at:
<http://www.iaspei.org/>

Contacting IASPEI

The Secretary-General is the main point of contact for all matters concerning IASPEI.

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