

Annual Report 2022 – IASPEI

1. SHORT INTRODUCTION OF ASSOCIATION

The International Association of Seismology and Physics of the Earth's Interior (IASPEI) is the leading international association promoting studies in seismology, earthquake processes, and structure and ongoing geodynamical processes within the Earth's interior. IASPEI achieves its goals primarily through scientific conferences organized by IASPEI and its Commissions, but also sponsors other international initiatives, fosters international cooperation, both in monitoring of seismic sources and research, and education activities, especially in countries that are working towards full scientific development.

Most IASPEI efforts during 2022 were directed towards the Assemblies of IASPEI's four Regional Commissions and the preparation of the 2023 IUGG General Assembly.

2. ADMINISTRATION

- EC & Bureau meetings

The IASPEI Bureau / Executive Committee (EC) had one joint meeting in 2022, organized as video conference. There were additional, regular e-mail exchanges regarding all Association related questions (as e.g., financial support, requests, planning of future Assemblies or business to be solved immediately) between the members of the IASPEI Bureau and EC throughout the year.

- Changes in administration (setting up of new Commissions, Working Groups, etc., or termination of old Commissions, Working Groups, etc.)

No changes.

- Other matters

Website. The IASPEI website has the address <http://iaspei.org>.

Statutes. The IASPEI statutes and by-laws were not changed in 2022. IASPEI is registered as a Norwegian organization (Norwegian Org. Number 916 047 495).

Newsletters. IASPEI Newsletters were regularly sent as PDF-file attachments to more than 3000 e-mail addresses. After the Assemblies of the Regional Commissions in 2022, the number of IASPEI members and Newsletter recipients increased to more than 4000. The Newsletters are also available for download from the IASPEI website. Four Newsletter issues as well as one bulk-mail with ad-hoc information about phishing e-mail attacks were distributed in 2022.

3. ACTIVITIES

- Scientific Assemblies, Workshops/Symposia etc.

All meeting activity in 2022 was still influenced by the still on-going COVID-19 pandemic but in the second half of the year, the IASPEI Regional Commissions could organize their Assemblies.

The European Seismological Commission (ESC) had its 38th General Assembly together with the European Association of Earthquake Engineering (EAEE) as joint 3rd European Conference on Earthquake Engineering and Seismology (3ECEES) in Bucharest, Romania, from 4 to 9 September 2022. As originally planned, the Assembly was organized as an in-person meeting with about 800 participants from more than 60 countries. During the week after its General Assembly, ESC organized the Peter Bormann Young Seismologist Training Course (YSTC) of 2022 with the title “Intermediate-depth seismicity and strong ground motions with large displacement demands – Challenges and Insights in Seismology and Earthquake Engineering”.

The 4th General Assembly of the Latin American and Caribbean Seismological Commission (LACSC) was held as a hybrid meeting in Quito (Ecuador), from 3 to 5 October 2022. The Assembly had 209 in-person participants from 28 different countries and 33 people participated on-line. Two pre-congress courses were given on the weekend before the start of the meeting. A 2-day course on SeisComp platform for beginners was attended by 18 people and an afternoon course on the new developments of the "Shake Map" was attended by about 30 people.

The 3rd General Assembly of the African Seismological Commission (AfSC) was originally planned to be held as a virtual conference in Kasane (Botswana) in 2022. Because of the high costs involved, this was not possible. The 14th General Assembly of the Asian Seismological Commission (ASC) was planned as hybrid meeting in Hurgada, Red Sea (Egypt), in October 2022. After cancellation of the AfSC in Botswana, the Egyptian colleagues also invited the AfSC community to join the ASC in Egypt. This *1st Joint ASC-AfSC Assembly* was held as hybrid meeting with more than 180 participants (about 40 on-line) from 38 different countries, between 10 and 13 October 2022. On the sidelines of the conference, the Organizing Committee convened a training course for early career seismologists that focused on the modern methods for nanoseismicity and infrasound monitoring. The three-day training course was attended by 20 seismologists and included hands-on training.

- Activities of Association Commissions, Working Groups, Divisions, Services etc.

IASPEI supported Čermák7, the “7th International Meeting on Heat Flow and the Thermal Structure of the Lithosphere”, which was held from 20 to 22 June 2022, in Potsdam, Germany, and was hosted by the GFZ German Research Center for Geoscience under the auspices of the International Heat Flow Commission (IHFC) of the IASPEI/IUGG.

IASPEI supported the Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV), which is a joint Inter-Association (IAGA, IASPEI, and IAVCEI) working group in IUGG. From 22 to 24 August 2022, EMSEV2022 was held at the National Central University in Taiwan. The meeting was initially scheduled for the summer of 2020 but was postponed for two years due to COVID-19.

Some 2,000 hard copies of the first printed edition of the IASPEI New Manual of Seismological Observatory Practice (NMSOP, 2002) are currently being used in more than 100 countries at seismological observatories, data and analysis centers, and for teaching, research, and field applications. In addition, it is used as basic material within national and international seismology training courses, or by private enterprises and individual scientists. In 2014, a rigorously updated and amended electronic second

edition, NMSOP-2, was completed and put online, thanks to the efforts of the late Peter Bormann. This version, as well as future ones, are professionally maintained, further developed and edited by the GFZ German Research Centre for Geosciences under a long-term commitment and the auspices of IASPEI and its Commission on Seismological Observation and Interpretation (CoSOI). All versions are freely available and downloadable from the website of the GFZ Library (<http://bib.telegrafenberg.de/publizieren/vertrieb/nmsop/>).

- Scientific Programs, Projects, Publications

In 2022, IASPEI continued to financially support the work of the Inter-Association Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV).

- Awards/Anniversaries/Obituaries

Awards

The **IASPEI Medal** is awarded for distinguished contributions in seismology: for sustaining IASPEI goals and activities and for scientific merits in the field of seismology and physics of the Earth's interior. The Medal is awarded every 2nd year during the IASPEI Assemblies. The next Medal will be awarded during the 2023 General Assembly in Berlin.

In 2016, the IASPEI Bureau established an **IASPEI Early Career Scientist Award** program aimed at engaging excellent young researchers in the IASPEI community. Each of the four IASPEI Regional Commissions was asked to select one Early Career researcher (graduate student, postdoctoral researcher, pre-tenure faculty member) from their commission at each even-year Assembly of that Regional Commission. The ESC decided during its General Assembly in September 2022, to give an IASPEI Early Career Scientist Award to Luca Laudi from the University of Valetta (Malta). The AfSC decided during the Egypt Assembly in October 2022 to give an IASPEI Early Career Award to Olivier Munguiko from the Goma Volcano Observatory, Goma, Congo DR.

Obituaries

Obituaries for prominent scientists of the IASPEI community are regularly published in the IASPEI Newsletters and on the IASPEI webpage. In 2022, sadly, four obituaries had to be published.

4. PLANNED FUTURE ACTIVITIES/ ANNOUNCEMENTS

In 2023, the IASPEI main activity will concentrate on the 28th IUGG General Assembly, planned for 11 – 20 July 2023, in Berlin, Germany (<https://www.iugg2023berlin.org/>).

The IASPEI Bureau / ExeCom decided during its joint meeting in September to organize the 2015 Scientific Assembly again as a Joint Assembly together with IAGA in Lisbon, Portugal.



In-person participants of the 1st Joint Assembly of AfSC and ASC in Hughada, Egypt, in October 2022..