

# IASPEI Newsletter

October 2021

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With great sadness I must inform you that three of our colleagues passed away. We remember them with obituaries.

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.

Stay healthy,

Johannes Schweitzer  
Secretary General

## 3<sup>rd</sup> IAGA – IASPEI Joint Scientific Assembly Hyderabad, India

### Foreword

Dear Readers,

The main part of this Newsletter is related to the outcome of the 3<sup>rd</sup> IAGA-IASPEI Joint Scientific Assembly. Then, follows information about the venue of the 43<sup>rd</sup> Scientific Assembly in 2025, reports from the General Assemblies of our Asian and European Regional Commissions (ASC and ESC), information from the African Seismological Commission and an announcement regarding the 12<sup>th</sup> NCEE meeting in 2022.

### Report

The International Association of Geomagnetism and Aeronomy (IAGA) and the International Association of Seismology and Physics of the Earth's Interior (IASPEI) had planned to have a joint scientific assembly in August 2021 in Hyderabad, India. In the midst of the preparations in 2020, it became clear that a normal, in-person meeting would likely not be possible in summer 2021 due to the COVID-19 pandemic. The two Associations and the local organisers decided together to organize the meeting as a virtual event on the originally planned dates.



*The opening ceremony of the IAGA-IASPEI Joint Assembly 2021 was attended in person by selected local participants and streamed online for all others.*

Thus, the virtual Joint IAGA-IASPEI Scientific Assembly was held August 21 – 27, 2021, hosted by the Indian National Academy (INSA) and the CSIR-NGRI with support from other Earth science institutes of the Department of Science & Technology, Gol, CSIR and the Ministry of Earth Sciences, Gol. The meeting attracted 828 participants from 53 countries, over 500 from IAGA and nearly 300 from IASPEI, and included 212 students from 37 different countries. These numbers are quite satisfactory, although a somewhat higher participation was originally expected for a normal meeting.

The program of the Scientific Assembly did not differ much from the originally planned one, and included 3 joint plenary talks, 8 joint sessions and 27 IAGA and 17 IASPEI symposia with altogether 778 abstracts for oral and poster presentations. It was preceded by the NGRI-CSIR Diamond Jubilee Symposium, which celebrated the 60<sup>th</sup> anniversary of the institute with 8 invited lectures.

During its Opening Plenary, IASPEI presented the IASPEI Medal 2021 to Barbara Romanowicz with a laudation given by Guy Masters (see also the acceptance speech by Barbara Romanowicz later in the Newsletter). Furthermore, IAGA held its award ceremony, where this year's Shen Kuo Medalist, Jay Johnson, gave a well-received lecture entitled "From microphysics to system science:

approaches to understanding dynamics from the sun to Saturn".

Due to the COVID-19 pandemic, the Asian Seismological Commission (ASC), one of IASPEI's Regional Commissions, could not hold its General Assembly in 2020. Therefore, the ASC took the opportunity of the Joint Assembly with many participants from the Asian countries and organised a General Assembly during the conference (see own report later in the Newsletter).

The Joint Assembly was preceded by the IAGA and IASPEI Schools for early career scientists and a GIFT workshop to educate teachers from India and surrounding countries on IAGA and IASPEI topics (see special report below). All these were also organized for the first time in virtual formats. The International Association of Physics Students, IAPS, that signed a memorandum of understanding for collaborations with IAGA earlier this year, organized another virtual event (IAPS@IAGA) where early career scientists could discuss in small groups with international experts in different fields of IAGA sciences.

The challenge to accommodate all authors with different local times for the presentations at the Joint Assembly led to a concentration of sessions in the interval 16:45 – 22:15 IST (10:45 – 16:45 UTC), which resulted in some unfortunate overlaps of sessions. However, all presentations were recorded (either pre-recorded or recorded during live session) and available for later viewing. The live oral sessions included some lively discussions despite the online limitations, and after some initial difficulties the Association business meetings, an important part of the IAGA and IASPEI Scientific Assemblies, also went well. The only aspect solved less satisfactorily were the poster sessions, which could not be arranged as live discussions.

Overall, the technical arrangements worked well. The Indian colleagues have done a tremendous job to set up the fully virtual environment in less than a year. We sincerely thank the Local Organisers and the personnel from the professional conference organizing

company for their dedication. We thank all who made this first virtual IAGA-IASPEI assembly a great success, including the IAGA and IASPEI officers, symposia organisers, session conveners and chairpersons, who all faced new challenges with the conversion to the virtual format.

IAGA and IASPEI plan another joint assembly in Lisbon, Portugal for 2025. We are looking forward to hopefully having this, as well as the IUGG General Assembly before it, in 2023, in Berlin, Germany, as regular meetings with in-person participation.

Monika Korte, IAGA Secretary General  
Johannes Schweitzer, IASPEI Secretary General

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## **IASPEI Medal 2021**

The IASPEI medal is awarded for merits 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 IASPEI Medal 2021 was awarded during the (virtual) Opening Plenary at the Scientific Assembly in Hyderabad to Barbara Romanowicz. After the Laudation by Guy Masters, Barbara gave the following acceptance speech:

### **Acceptance Speech by Barbara Romanowicz**

Thank you Guy, for your generous introduction!

I am deeply honored to receive this medal and would like to thank my colleagues and friends, at IASPEI, for their support and for selecting me among many others that deserve this distinction. My only regret is that I cannot celebrate and express my thanks with you all in person in Hyderabad - as Harsh indicated I visited there three years ago and had been looking forward to return since then. I

appreciate how challenging it has been to the local organizing committee to have to handle this all remotely.

I've been told I need to be brief, so I will make just a few comments

This recognition by IASPEI, the international society in my research field, is particularly meaningful for me.

International cooperation is an important component in science in general, but it is essential in the geosciences and particularly so in seismology. As you all know, seismic waves do not stop at national borders, and understanding seismicity, earthquake physics and the earth's internal structure requires combining seismic data over large regions, better, the entire earth's surface, well beyond what can be achieved with a local set of records and from a single country.

I was fortunate to begin my career at a time of a major revolution in observational seismology: the transition from analog to digital recording and with it, the development of broadband and very broadband instrumentation, which gave access to orders of magnitude more and better quality information and is still the basis of present-day investigations.

I was lucky to be a founding member – 36 years ago – of an initiative, the FDSN, whose goal was to standardize broadband instrumentation and data formats, to facilitate seamless data exchange among the growing number of international partner broadband seismic networks. While relying on voluntary efforts of many individuals, it is nice to see how successful it has been. It is still very active today under the umbrella of the IASPEI and is showcased in other scientific communities for its pioneering successes in open data sharing.

Free data exchange and sharing is essential for the advancement of both fundamental seismology and the mitigation of natural disasters. As obstacles of political or financial nature resurface time and again, it is important for the younger seismologists to realize that it is their responsibility to take on and continue

efforts and initiatives and strive for free and open data sharing. It can be hard work, but it is rewarding to get involved in such efforts, – as I have experienced myself – because it also offers the opportunity to meet remarkable scientists from all over the world, exchange about science, and... your own research will greatly benefit from that.

While these efforts need to be sustained, the not-so-new but still very challenging frontier is to expand the data collection to broadly cover the ocean floor. This also, and perhaps even more so, requires international collaboration. There seems to be some new enthusiasm and momentum in this direction at present, and I hope these endeavors will grow and be successful.

I wish to thank my mentors, colleagues, students and family, without whom I wouldn't be standing on this virtual podium today.

Thank you all, and looking forward to the upcoming IASPEI sessions

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## IASPEI Resolutions

During the Closing Plenary of the (virtual) 41<sup>st</sup> Scientific Assembly 2021, Hyderabad, India, IASPEI adopted the following four resolutions:

### Resolution 1

**RECOGNISING** the contribution to the Earth sciences made by scientists of all genders, religion, and orientations,

#### IASPEI URGES

the national authorities of all countries to maintain equal rights of all society groups to education and ability to work in scientific research.

### Resolution 2

**RECOGNISING** that the Earth Sciences require full access to historical data and

**TAKING INTO ACCOUNT** that a large volume of such data is at risk of a loss,

#### IASPEI URGES

the nations of the world to identify, digitize and disseminate the historical Earth science data without delay.

### Resolution 3

**RECOGNISING** that the New Manual of Seismological Observatory Practice (NMSOP) is playing an important role in the development of observational seismology and

**TAKING INTO ACCOUNT** that in the recent decade some new knowledge in seismology has reached the potential to be transformed to seismological observatory practice,

**IASPEI IS GRATEFUL** to GFZ, Potsdam for their efforts in maintaining and distributing the NMSOP and

**ENCOURAGES** them to initiate further necessary updates of the Manual.

### Resolution 4

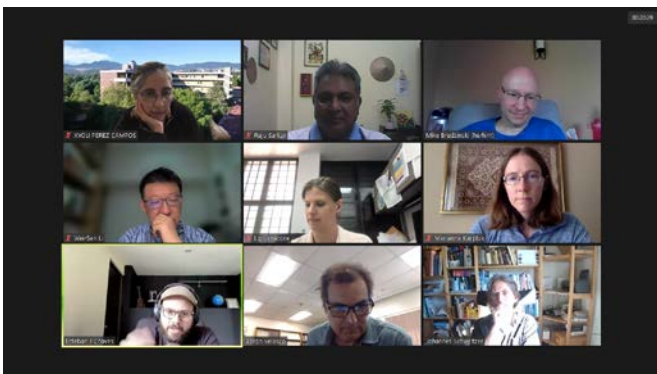
**RECOGNISING** the enormous efforts required to prepare and run the 3<sup>rd</sup> IAGA – IASPEI Joint Scientific Assembly during the world-wide pandemic,

#### IASPEI IS GRATEFUL

to the CSIR-NGRI (Hyderabad, India) and the Local Organizing Committee and its Chair, **Dr. Virendra M. TIWARI**, as well as the Scientific Programme Committee and its Chair, **Dr. Kusumita ARORA**, for a memorable on-line meeting.

## Report on the 1<sup>st</sup> IASPEI Summer School for Early Career Research Scholars

The IASPEI Summer School on “Principles of Earthquake Location and its Correlation with Seismic Network Designs” was held from August 16 – 20, 2021 just before the IAGA-IASPEI Joint Assembly on virtual mode due to present pandemic of COVID-19 with the help of Local Organising Committee (LOC) of IAGA-IASPEI Joint Assembly. The Summer School was a 15-hour training course on the principles of earthquake location and seismic networks, distributed in five days. 30 early-career research scholars in the fields of Seismology, Earthquake Engineering and Geophysics from ten countries participated the school. Thirteen instructors from eight countries delivered their lectures of 90 minutes each, where theory and hands-on exercises were included by using main conference software. Apart from gaining the scientific knowledge, networking among the participants was another motive for organising the present IASPEI summer school.



*“Group photo” of some of the tutors*

The Commission on Education and Outreach, IASPEI, would like to thank all who made the 1st IASPEI Summer School a success under the present pandemic time, in particular all the Tutors, LOC, and IASPEI Bureau.

Raju Sarkar, Xyoli Perez Campos & Aaron Velasco, members of the IASPEI Commission on Education and Outreach

## IASPEI Nomination Committee for the elections in 2023

Following the IASPEI Statutes, IASPEI President Kenji Satake must select the members of the Nomination Committee two years before the election of a new IASPEI Bureau and IASPEI Executive Committee. The next elections will take place during the forthcoming General Assembly of the IUGG, in Berlin, in 2023. The following committee members were selected to nominate candidates for the elections:

Thorne LAY (Past-President and Committee Chair, USA), [tlay@ucsc.edu](mailto:tlay@ucsc.edu)

Keiko KUGE (National Representative, Japan), [keiko@kugi.kyoto-u.ac.jp](mailto:keiko@kugi.kyoto-u.ac.jp)

Marcelo ASSUMPCÃO (Past IASPEI ExeCom Member, Secretary General LACSC, Brazil), [marcelo@iag.usp.br](mailto:marcelo@iag.usp.br)

Päivi MÄNTYNIEMI (Ass. Secretary ESC, Finland), [paivi.mantyniemi@helsinki.fi](mailto:paivi.mantyniemi@helsinki.fi)

Paulina AMPONSAH (AfSC ExeCom Member, Ghana), [pekua2@yahoo.com](mailto:pekua2@yahoo.com)

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## Venue of the 43<sup>rd</sup> Scientific Assembly 2025

During a (virtual) meeting on 7 September 2021, the IASPEI Executive Committee discussed the bid of Portugal to host the 43<sup>rd</sup> Scientific Assembly as a joint Scientific Assembly together with IAGA, in Lisbon, in 2025. After some clarifying email exchange with Pedro Silva as representative of the LOC, IASPEI has unanimously decided by email voting to accept Portugal’s bid to host the IAGA-IASPEI Joint Scientific Assembly in Lisbon, in 2025.

## 13<sup>th</sup> General Assembly Asian Seismological Commission (ASC)

The 13<sup>th</sup> ASC General Assembly was held during 11:15 – 13:15 UTC, August 24, 2021, on a virtual platform provided by the 3<sup>rd</sup> Joint Scientific Assembly of IAGA-IASPEI, which was hosted by CSIR-National Geophysical Research Institute, India, as a virtual conference during August 21 – 27, 2021.

There were 19 attendees for the 13<sup>th</sup> ASC GA. Dr. Paramesh Banerjee, the President of ASC, and Prof. Li Li, the Secretary General of ASC briefly introduced the past activities in the past 4 years and provided a quick review of the Executive Committee meeting on August 14, 2021.

It was decided that the 14<sup>th</sup> GA will be held in October 2022, presumably in Egypt or via a virtual platform, depending on the situation of the COVID-19 pandemic. The discussions also covered how to make ASC self-sustainable in terms of funds, how to expand outreach of the ASC and attract more countries to actively participate and get involved in ASC activities across entire Asia, etc. Finally, to commemorate the 25<sup>th</sup> anniversary of the ASC, the invitation to publish a special volume of the Journal of the Geological Society of India, was discussed.

Li Li, Secretary General ASC

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## 37<sup>th</sup> General Assembly European Seismological Commission (ESC)

The 37<sup>th</sup> General Assembly of the European Seismological Commission (ESC), which was organized under the auspices of the National and Kapodistrian University of Athens and more specifically by the Section of Geophysics – Geothermics of the Department Geology and Geoenvironment, with the contribution of the

Ionian University and of the National Observatory of Athens, was conducted during 19 – 24 September 2021. Due to the Covid 19 pandemic, the General Assembly of the ESC) was delivered fully virtually, instead of being held in the island of Corfu, at the Ionian Islands in Western Greece. This was the second time that the National and Kapodistrian University of Athens organized the ESC GA, after the XXIV General Assembly of 1994 in Athens.

Greece lays in the middle of the collision between two tectonic plates, the Eurasian and the African, the latter sinking under the former at a rate that exceeds 3 – 4 cm. Greece, apart from the collision front, and due to its relatively small size, is broken into pieces, with many seismic zones. It has the greatest seismicity in the whole of Europe. Half the energy of all the earthquakes occurring in Europe is released in Greece. There is no Greek province that doesn't host seismic sources throughout the past centuries. Fortunately, approximately 75% of Greek earthquakes occur either under the sea, away from inhabited areas, or in several kilometers' depth, and do not cause major disasters. In addition, Greek citizens are aware of the danger, as they live with earthquakes. The Ionian Islands, the region where Corfu, the place where the ESC General Assembly would have been organized, is located is one of the most seismically active regions in the Mediterranean. It is dominated by the presence of the dextral Kefalonia Transform Fault Zone. Earthquakes in Greece are monitored in detail, as our country has a modern seismological network operating at a high technological level.

The General Assembly of the ESC is the largest and most popular Seismological Conference in Europe. It is lieu of conversation for distinguished academics and researchers in the field of seismology and related scientific fields. In addition to the presentation of recent results and methodologies in cutting-edge science of seismology and the structure of the earth's interior, additional applications and social aspects of seismology were covered, such as seismic risk, earthquake engineering, education and risk prevention. The 2021 General Assembly of the ESC concentrated on

seismological issues such as seismotectonics, seismic anisotropy, instrumental and historical seismicity, especially in the seismogenic region of the southern Mediterranean. Emphasis was given by the Conference participants in the Greek territory.

A large number of young researchers, as well as internationally recognized scientists attended the 37<sup>th</sup> General Assembly of the ESC, with a total of 596 scientists attending, 86% of whom were from Europe. The top 5 European countries regarding the attendances were: Italy (114), Greece (79), France (48), Germany (42) and Switzerland (32). In addition, 36 scientists were from Asia, 35 from South America, 7 from North America, 3 from Africa and 2 from Oceania. 38 oral sessions were organized, in which 378 oral presentations were provided, 18 of which were invited. In addition, a total of 180 posters were presented. Also, the Seismological Society of America was participating with one common session. Lastly, there were five keynote lectures by internationally renowned scientists, one at each day of the Congress.

The contribution of all members of the LOC, the members of the Scientific Program Committee, the ESC-ExeCom, keynote lecturers, invited speakers and all conveners was essential, because without their contribution the Assembly would not have been the same.

It is vital that most of the focus must be given to the next generation of seismologists. This is why, as part of the Conference, a School for Young Scientists, the "Young Seismologist Training Course" (YSTC) was organized between 13 and 17 September 2021. The School was aimed primarily at postgraduate students and PhD candidates and was entitled "The Peter Bormann Young Seismologist Training Course (YSTC) of 2021: Seismology for Science and Society". The YSTC covered a wide range of seismological issues, such as seismicity in Greece, faults and seismic risk, recent Croatian earthquakes, macroseismology, induced seismicity, computational seismology, machine learning applications in seismology and earthquake catalogues.

Nicholas Voulgaris, Chair of the Local Organising Committee, National and Kapodistrian University of Athens, Greece

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## **3<sup>rd</sup> General Assembly African Seismological Commission (AfSC) Kasane, Botswana**

The third General Assembly of the AfSC had been postponed from 2020 to September 2021 and again from September 2021 to 2022. Since the COVID-19 pandemic is still going on, the General Assembly is now planned as a virtual meeting in February/March 2022. Please stay informed by checking the AfSC website <https://www.afsc-web.org.za>.

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## **12<sup>th</sup> NCEE**

The upcoming 12<sup>th</sup> National Conference on Earthquake Engineering, 12NCEE, will be held in Salt Lake City, Utah, from June 27 – July 1, 2022, with the theme Reimagining Risk and Resilience. This milestone conference brings together professionals from a broad range of disciplines: architecture, civil and structural engineering, seismology, geology, geophysics, geotechnical engineering, business, public policy, the social sciences, regional planning, emergency response, and regulation.

In addition to bringing together a variety of disciplines, we also encourage attendance and participation from the international earthquake engineering community. International engagement is critical to enriching the conference programming and enhancing lessons learned and long-term impacts. International participation is welcome in all aspects of the conference, including proposing special sessions, submitting papers, presenting, or simply attending and sharing ideas!

More information about the submission process and deadlines can be found here: <https://12ncee.org/call-for-papers>.

Extract from a letter by Heidi Tremayne, Executive Director, EERI

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## Obituaries

### Assia Harbi (1964 – 2021)



Assia Harbi was born in El Harrouch (Skikda, former Philippeville of northeast Algeria) and obtained a Master in geophysics and PhD in seismology at the University of Algiers in 2006.

To adequately portray Assia Harbi's subsequent three decades of impressive accomplishments in seismology would require many more words than what it is written here. My aim is therefore to present an account of the projects and collaborative work developed by Assia at the Research Centre of Astronomy and Geophysics (CRAAG). We were colleagues at the same research center from 1990 to 1993 and kept a close collaboration since then. Assia's chosen research direction was not an easy one, but she was committed

to the complicated task of a case-by-case reappraisal of historical earthquakes. Her primary objective was to collect reliable and detailed earthquake data from historical documents, old letters, press reports, and eyewitness accounts to construct macroseismic intensity maps. Her other objective was to develop a catalogue with parametric data and calculate intensity. The catalogue included damage distribution, magnitude, accurate earthquake location and estimated depth, level of ground motion and correlation with tectonic structures. She collected data of many historical earthquakes for which only a few seismic events had been published. Thanks to her contribution, the seismicity catalogue of Algeria and Tunisia became parametric and at present also includes some of the well-studied seismic events in the Maghreb region. Her outstanding effort in enhancing the parametric catalogue has definite implications for seismic hazard and risk assessment of northern Algeria.

Assia was a tireless scientist driven by her enthusiasm, curiosity, and sense of completed task work. Assia was a visiting scientist invited in 2007 and 2008 as a research fellow at the Ecole et Observatoire des Sciences de la Terre de Strasbourg, and we worked closely for the reappraisal of historical earthquake studies of Algeria and Tunisia. Thanks to her appointment as Associate Professor in 2004 at the Abdusalam International Centre Theoretical of Physics (ICTP, Trieste, Italy), she led the North African Group of Earthquake and Tsunami studies (funded by UNESCO-ICTP Trieste) and contributed significantly to the launch of the African Seismological Commission (AfSC) and UNESCO-IUGS-IGCP 601-659 projects on estimating the seismic hazard and risk in Africa (Seismotectonic Map of Africa). She has also acted as Vice-President of the Arab Geosciences Union since 2016. Her commitment to these projects opened the door to many young scientists and among them women researchers for training sessions in seismology, seismotectonics and seismic hazard assessment. She obtained the ICTP Simons Fellow distinction in 2014, the Hypatia Science Prize award in 2021. Recently, the



National Research Institute of Astronomy and Geophysics in Egypt (NRIAG, Cairo) established a prize for the young seismologist named after Assia Harbi.

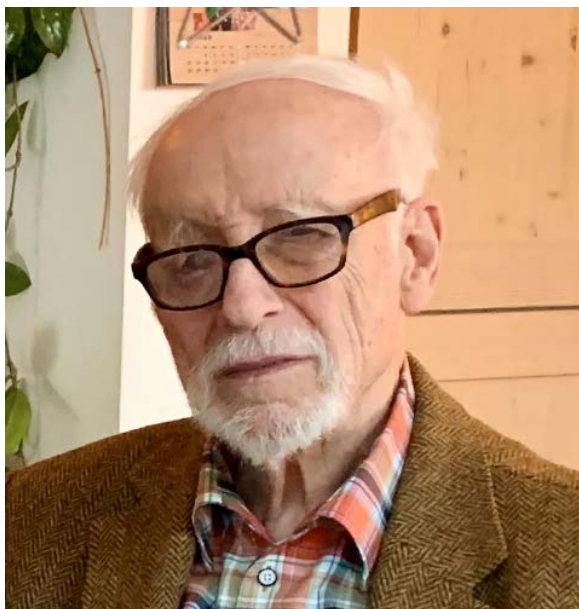
Assia left us too early because some historical earthquakes still need her “diagnosis” and “remedy” said her husband and colleague Saïd Maouche. However, with her rigorous scientific approach and proactive engagement with students and young researchers, Assia forged a path for the construction of a rich parametric seismicity catalogue. We deeply regret her passing and hold her forever in our memory.

Her publications are accessible at: [https://scholar.google.com/scholar?hl=fr&as\\_sdt=0%2C5&q=Assia+Harbi&oq=assia](https://scholar.google.com/scholar?hl=fr&as_sdt=0%2C5&q=Assia+Harbi&oq=assia)

Mustapha Meghraoui, President of the African Seismological Commission, EOST – ITES, Strasbourg, France

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## Rudolf Gutdeutsch (1930 – 2021)



(Photo: Christa Hammerl)

On 11 August 2021, at the age of 90, Univ.-Prof. Dr. Rudolf Gutdeutsch, a renowned Austrian geophysicist, passed away.

Dr. Gutdeutsch was born on 9 October 1930 in Hannover, Germany. Before he joined the Technical University at Clausthal in 1959, he worked for the company SEISMOS. From 1963-1972 he worked at the University of Hamburg – with a short sabbatical at the University of California in Berkeley. During that time, he took part in several marine seismic surveys. 1970-1971 he was Professor for Geophysics at the Institute for Physics of the Earth’s Interior at the University of Hamburg. In 1971 he accepted a full professorship at the University of Vienna in Austria – a position he held up to his retirement in 2000.

The mid 1970s were dominated by seismic surveys spanning the Austrian Alps which were conducted by his institute. These surveys led to better understanding of the structure of the Alpine orogene.

After the plebiscite against the usage of nuclear power to meet electric power demands in Austria in 1978, Gutdeutsch was instrumental in establishing the discipline of „Historical Earthquake Research” in Austria, which culminated in the publication „Erdbeben als historisches Ereignis“ (together with Ch. Hammerl, I. Mayer and K. Vocelka in 1987). In 1986 he became the chairman of the newly established Working Group on “Historical Earthquake Data” of the European Seismological Commission (ESC). During that time, Gutdeutsch had also developed a keen interest in potential theory and its application in geophysics, which led to the book „Anwendungen der Potentialtheorie auf geophysikalische Felder“ in 1986. He lectured in all fields of geophysics – including signal analysis. After the introduction of computers in the 1980s the latter was then – and still is – a hot topic and its knowledge remains a prerequisite of the understanding of digital data.

After many working trips leading him to e.g., Hungary, the Czech Republic, the United States and New Zealand, he remained in close contact with Lajos Stegena of the Eötvös University in Budapest, Antal Ádám of the Hungarian Academy of Sciences in Sopron and Vít Kárník of the Technical University

Prague. He also fancied arts, literature and – last but not least - music.

Wolfgang Lenhardt, Zentralanstalt für Meteorologie und Geodynamik (ZAMG), Vienna, Austria

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## Dieter Seidl (1938 – 2021)



(Photo courtesy Peggy Hellweg)

On September 18<sup>th</sup>, 2021, our former colleague Dr. Dieter Seidl passed away at the age of 83. Dieter Seidl studied physics in Stuttgart, Germany, and joined the group of Prof. Dr. Stefan Müller in Karlsruhe for his PhD thesis on the analysis of seismic surface waves. In 1971 he changed to the formerly existing Seismological Central Observatory (SZGRF) in Erlangen, a branch of the Federal Institute for Geosciences and Natural Resources (BGR) in Hannover. There he worked as a scientist and prepared the theoretical foundation for the design and installation of the first digital broadband array on Earth, the Gräfenberg Array on the Franconian Jura in Southern Germany. The 13 stations of the Gräfenberg Array are still existing and delivering continuous data since 1976, providing a unique data set to the seismological community. Since the beginning

of the 1980s, Dieter Seidl was heading the SZGRF until his retirement in 2003. He wrote numerous articles on the analysis of broadband seismograms and developed fundamental algorithms for the application of filter operations to digital seismic data. These methods still are the basis of modern processing techniques in seismic waveform analysis. In later years he focused on the seismological aspects of volcanism and conducted a number of measurements at volcanoes in South America. Thus, he contributed expert knowledge to the early recognition of critical states at volcanoes. Dieter Seidl always was a helpful colleague and promoted scientific discussions with his profound knowledge in geophysics. We will miss him.

Klaus Stammler, Federal Institute for Geosciences and Natural Resources (BGR), Hannover, Germany

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## 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.

### 2021

#### **Seismology Frontiers 2021 online workshop October 20 – 21, 2021**

URL: <https://sites.google.com/elsi.jp/mini-seismo-2021/home>

#### **XX<sup>th</sup> General Assembly of Wegener**

**October 25 – 29, 2021, Marrakech, Morocco**

URL: <https://weger2021.sciencesconf.org>

#### **AGU Fall Meeting**

**December 13 – 17, 2021, New Orleans, USA**

URL: <https://www.agu.org/Fall-meeting>

## 2022

### **AfSC 3<sup>rd</sup> (virtual) General Assembly**

February/March 2022, Botswana

URL: <http://afsc3ga2020.co.bw/site/>

### **Čermák7 – 7<sup>th</sup> International Meeting on Heat Flow and the Geothermal Field**

To be decided

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

### **EGU General Assembly 2022**

April 3 – 8, 2022, Vienna, Austria

### **SSA Annual Meeting 2022**

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

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

### **12<sup>th</sup> National Conference on Earthquake Engineering**

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

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

### **3<sup>rd</sup> European Conference on Earthquake Engineering and Seismology**

September 4 – 9, 2022, Bucharest, Romania

URL: <https://3eceeds.ro/>

### **XX<sup>th</sup> General Assembly of WEGENER**

October 25 – 29, 2022, Marrakech, Morocco

URL: <https://wegener2021.sciencesconf.org>

### **ASC 20<sup>th</sup> General Assembly**

October/November 2022, Egypt

URL:

### **LACSC 4<sup>th</sup> General Assembly**

End of 2022, Quito, Ecuador

### **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 28<sup>th</sup> General Assembly**

July 2023, Berlin, Germany

URL: <https://www.iugg2023berlin.org/>

### **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 43<sup>rd</sup> 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

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## **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.

Dr. Johannes Schweitzer / IASPEI  
c/o NOR SAR  
Gunnar Randers vei 15  
PO Box 53, N-2007 Kjeller  
Norway

E-mail: [iaspei@norsar.no](mailto:iaspei@norsar.no)