



Annual Report 2010 – IASPEI

1. SHORT INTRODUCTION OF ASSOCIATION (max. ½ page)

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

Most of the IASPEI efforts during 2010 were directed towards the forthcoming IUGG2011 General Assembly, in particular the scientific programme. However, several important scientific meetings have been also sponsored by IASPEI. The two IASPEI Regional Commissions have held their General Assemblies and associated Training schools.

2. ADMINISTRATION (max. ½ page)

- EC & Bureau meetings

The IASPEI Bureau has met in Shanghai in March, invited by the Chinese Earthquake Administration.

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

None.

- Other matters

Website. The IASPEI website has been updated continuously, mainly with the help of the IASPEI webmaster Alice Walker.

Newsletters. Also the IASPEI Newsletter in its new vest has been regularly sent as pdf file attachment to e-mails. The Newsletters are also available for downloading from the website. Four issues were distributed in 2010.

3. ACTIVITIES (max. 2 pages)

- Scientific Assemblies, Workshops/Symposia etc.

AGU Meeting of the Americas, August 8-13, 2010, Iguazu Falls, Brazil.

IASPEI has actively participated, with the organization of the seismological sessions at the conference, the attendance of one of its Vice-Presidents the active involvement of its Executive Committee member Marcelo Asumpcao, with sponsoring and some financial support Latin American graduate students, to the AGU Joint Assembly (or "Meeting of

the Americas”) that had a total of 2012 participants. The IASPEI logo was shown in both the AGU and the local webpage. It was also printed in the AGU program book and in the folder distributed to all participants.

Global Earthquake Model

The IAEE-IASPEI Joint Working Group on the International Alliance of Seismology and Earthquake Engineering Professional Associations activities were related to one of its missions: the GEM project, a global risk assessment initiative. P Suhadolc, GEM Foundation Governing Board member on behalf of IASPEI has attended two meetings in 2010, in June in Washington and in December in Singapore. The GEM initiative is progressing extremely well and a number of Projects have been assigned to groups of the seismological worldwide community to study basic seismological input data for seismic hazard assessment.

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

Asian Seismological Commission (ASC) meeting in Hanoi, Vietnam

The 8th General Assembly of the Asian Seismological Commission was held during November 8-10, 2010 in Hanoi, Vietnam. 287 from 32 countries participated to the well-organized conference that had its venue at the Vietnam Academy of Science and Technology. 70 Participants received full or partial grants from LOC. 208 abstracts were printed in the *ASC2010 Programme and Abstracts*, 150 posters and 117 reports were scheduled. The gala dinner on the boat cruising the big Hanoi lake was unforgettable.

The conference was preceded by a Pre-Assembly Training Course on Seismic Hazards and Disasters in Asia, attended by 20 participants. Eleven participants took part to the Post-Assembly Field Trip to the Red River Fault Zone.

No changes in the ASC Bureau. The venue of the next 2012 ASC conference will be: Ulaan Bataar, Mongolia.

The European Seismological Commission (ESC) meeting, Montpellier, France.

The 32nd General Assembly of the European Seismological Commission was held during September 6-10, 2010 in Montpellier, France.

A record attendance of 739 from 63 countries is a clear evidence of a successful event. The total attendance includes 701 registered participants, 8 master students from Montpellier University who followed keynotes and 29 high-school students and their teachers who presented their experiments in seismology on Friday morning. The gala dinner was attended by 350 people.

From a questionnaire distributed to participants the major highlight of the conference was the scientific program, perceived as attractive. Also the many keynotes given have been appreciated and as well as the extension of the topics beyond core seismological fields. The videos of the keynotes are available online at:

<http://www.emsc-csem.org/News/esc2010/>

The Young Seismologist Training Course 2010 followed the conference and took place in the period 13 – 17 September 2010. The venue of the Course was the University Montpellier 2, and the title of the course was **Urban Seismology**. There were 19 participants from 17 countries. IASPEI provided as usual some financial support.

A new ESC Executive has been elected (details on www.iaspei.org). The venue of the next 2012 ESC conference will be: Moscow, Russia.

The Teamwork For Hazard Estimation For Triggered And Induced Seismicity

The Triggered and Induced Seismicity Working Group (TAIS WG) of IASPEI announced *The Teamwork For Hazard Estimation For Triggered And Induced Seismicity* (THE TAIS) Initiative. The overall intention of this Initiative is to integrate research groups and improve the efficiency of knowledge transfer by

creating the international platform of cooperation between scientists and industry representatives in the field of human induced seismicity, with facilitating instantaneous access to data, results, methodologies and interpretations. The platform will be composed of Virtual Research Centres (VRC) that will work on specific problems and cooperate with the whole TAIS Team by modern IT. The first open meeting of THE TAIS was held during the ESC General Assembly in Montpellier.

IASPEI has sponsored (on its own or via an IUGG grant) the following workshops/symposiums in 2010:

The VIII International Workshop “Physics and Forecasting of Rock Destruction”, Saint Petersburg, Russia, from 24 to 29 May 2010.

The IRIS Workshop on “Managing Waveform Data & Related Metadata for Seismic Networks”, Foz do Iguaçu, Brazil, 13-19 August 2010.

13th Business Meeting of IASPEI/IAGA/IAVCEI Inter-Association Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV), October 6, 2010, Chapman University, California, USA. The deployment of equipment for joint studies of electromagnetic, seismic and deformation of Taal volcano near Manila in the Philippines has been partly supported by IASPEI.

- Scientific Programmes, Projects, Publications

The IDEA (International Digital Earthquake Archives) project of the Committee for Preservation of WWSSN and Historical Seismograms (also called simply *Seismoarchives: Seismogram Archives of Significant Earthquakes of the World*), is continuing under the guidance of Willie Lee. IRIS is archiving the scanned seismograms.

Recently, an IUGG-funded IASPEI-ISC Project *Networking of world seismologists (Improving Geophysical Science Link to the Society during Natural Extreme Events, Especially in Developing Countries)* has started. IASPEI and ISC will develop and maintain a worldwide registry of seismologists & geophysicists willing to serve as a point of contact in countries with and without affiliation to IUGG.

IASPEI has set up an Scientific Advisory Board (SAB) for the GEM hazard global component project *Global Instrumental Earthquake Catalogue* under the leadership of ISC. IASPEI has received financial support from this grant for this activity. The money is intended mainly for reimbursing the SAB members and for related IASPEI administration.

Several publications are available from the IASPEI Secretariat. IASPEI on approval distributes free copies of its publications to institutional libraries in less developed countries.

- *IASPEI: Cooperation for Better Understanding of the Earth.*

- *International Handbook of Earthquake and Engineering Seismology (Part A and B)*

- *New Manual of Seismological Observatory Practice.*

- Awards/Anniversaries/Obituaries

Obituaries for prominent scientists are published in the IASPEI Newsletters.

4. PLANNED FUTURE ACTIVITIES/ ANNOUNCEMENTS (max. ½ page)

IUGG2011 General Assembly, Melbourne, Australia. June 28 – July 7, 2011.

The Fourth International Symposium on the effects of Surface Geology on Seismic

Motion, will be held in Santa Barbara, California, USA in August 2011.

Seismotectonics and Seismic Hazards in Africa, a session at the CAG23, 7 - 14 January, 2011, Johannesburg, South Africa.

Short course on Waveform Inversion for local earthquakes. OVSICORI Institute, Universidad Nacional de Costa Rica, Heredia, Costa Rica. Fall 2011.

International Symposium on Geophysical Imaging with Localized Waves, Sanya, Hainan Island, China. July –August 2011.

12th International Workshop on Modeling of Mantle Convection and Lithospheric Dynamics. Groß Dölln, Germany. August 20 to 25, 2011.