



MERRY CHRISTMAS AND
HAPPY NEW YEAR 2011 to all of you!

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Foreword



Dear readers,

I apologise for having delayed the issue of the IASPEI Newsletter due to personal over-commitments!

This issue is, however, quite timely, since the registration and submission of abstracts for the IUGG2011 General Assembly in Melbourne is underway and I invite all of you to register as soon as possible, also in order to book convenient flights.

During the second part of the year several IASPEI related and sponsored activities took place, among which were the two General Assemblies of the IASPEI regional Commissions: the European Seismological Commission in Montpellier (France) and the Asian Seismological Commission in Hanoi (Vietnam).

A short report on ESC is published in this issue, the one regarding ASC will be published in the next one.

Finally, I invite all of you again to support IASPEI-sponsored meetings and activities in 2010, particularly our General Assembly in Melbourne!

Peter Suhadolc
Secretary General

Disclaimer

I am sending out the Newsletter as an attachment to an e-mail, trying to limit its size. It can also be downloaded from the IASPEI website:

<http://www.iaspei.org/newsletters/newsletters.html>

The IASPEI Newsletter is distributed to National Correspondents and other national representatives we know of, to all IASPEI officers, to IASPEI scientists who attended recent IASPEI Assemblies, and to various research organisations in countries around the world.

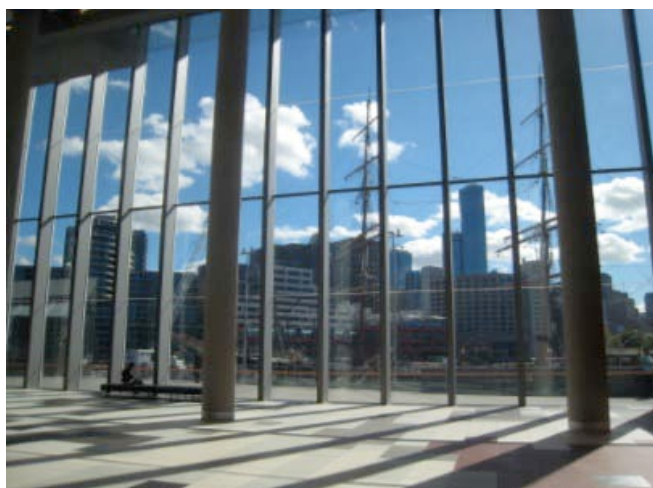
XXV IUGG2011 General Assembly Melbourne, Australia

“Earth on the Edge: Science for a Sustainable Planet“

The XXV IUGG General Assembly will be held in Melbourne, Australia, from 27 June to 8 July 2011, with scientific sessions running from 28 June to 7 July.

The broad theme for the IUGG2011 conference is “Earth on the Edge: Science for a Sustainable Planet “. IUGG2011 will be the largest multi-disciplinary geophysical meeting to be held in Australia, with in excess of 3,000 delegates expected to attend.

The scientific program will address many of the environmental, sustainability and hazard issues facing the Earth, including climate change, extreme weather events, melting glaciers and ice-caps, rising sea-levels, water in arid countries, earthquake hazards and tsunamis, and volcanic hazards, processes and natural resources. It should thus be a fantastically stimulating conference.



Cityline view from the IUGG2011 venue

The conference website at <http://www.iugg2011.com> has all the information about the conference, the scientific program of symposia, workshops and

fieldtrips, and listings of the symposia convenors and Keynote Speakers.

The Newsletter of the General Assembly is now available:

http://www.iugg2011.com/newsletter/IUGGNewsletter_Oct10.pdf.

The Scientific Program of the Assembly can be found here: <http://www.iugg2011.com/program.asp>.

The Scientific Program Committee of the General Assembly invites the submission of abstracts on original work to be considered for oral or poster presentation at the Assembly.

The deadline for the submission of abstracts for those applying for travel grants is Monday, 17 January 2011.

The early registration fee will be accepted until April 11, 2011 so that the Melbourne Local Organizing Committee can better plan for the expected attendance. After that, the fees will increase.



Downtown Melbourne

DEADLINES

- Registrations opened 16th August, 2010
- Early Bird Registration Deadline **11 April 2011**
- Standard Registration Deadline **24 June 2011**
- Abstract submission period **16th August, 2010 – 31st January** (*up to 17th January, 2011 for those applying for a grant*)

PLEASE NOTE

The IASPEI-related symposia will run from Wednesday June 29 to Monday July 4, inclusive. Saturday and Sunday will be working days.

32nd General Assembly of the European Seismological Commission 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 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 the Friday morning. The gala dinner was attended by 350 people.

From a questionnaire distributed to participants we have extracted the following:

The scientific program was perceived as attractive; keynotes were appreciated as well as the extension of the topics beyond core seismological fields.

The city of Montpellier, the Corum (the conference venue) and the competence of its staff were highly valued.

The poster sessions were very active and well attended; the accompanying food and drink were much appreciated as well as the possibility of leaving the posters for 2 days.

The quality of the geological trips has been praised by the participants.

The only major flaw was the missing conference programme, which was covered by the LOC providing daily handouts.

The new ESC Executive Committee, 2010-2012, is composed of:

President: Steinunn Jakobsdottir (Iceland)
Vice-President: Alexey Zavyalov (Russia)
Secretary General: Mariano Garcia-Fernandez (Spain)
Assistant Secretary: Ina Cecic (Slovenia)

Additional ExeCom members:
Pierre-Yves Bard (France)
Constantin Ionescu (Romania)
Stefano Solarino (Italy)

Past President: Jochen Zschau (Germany)
Past Vice-President: Michel Cara (France)
IASPEI Representative: Peter Suhadolc (Italy)

EMSC Representative: Remy Bossu (France)
EAEE Representative: Atilla Ansal (Turkey)
ORFEUS Representative: Bernard Dost (The Netherlands)
ASC Representative: R.K. Chadha (India)



Cheers to the new ESC President!

The videos of the keynotes are now available online at: <http://www.emsc-csem.org/News/esc2010/>. They have received 3,500 visits, so far, with an average of 100 viewings per keynote.

You will see that these keynotes cover various topics and are very efficient in providing an overview of a field. Do not hesitate to share this link with colleagues or students.

Young Seismologist Training Course 2010

The Young Seismologist Training Course on **Urban Seismology** followed the conference and took place in the period 13 – 17 September 2010. The venue of the Course was the University of Montpellier, and the Course Director was Philippe Gueguen from LGIT Grenoble. There were 19 participants from 17 countries with lecturers from Switzerland (ETHZ), France (EOST-Strasbourg, Univ. Grenoble, IRD Grenoble, IRSN) and Germany (Univ. Potsdam).



The YSTC2010 participants

The overall impression of the students was that the scientific part of the course was excellent. The students were encouraged to ask questions, were provided with additional explanations from the lecturers, and took an active part in the discussions.

THETAIS

TEAMWORK FOR HAZARD ESTIMATION FOR TRIGGERED AND INDUCED SEISMICITY INITIATIVE

In response to the increasing need for integration among scientists and engineers interested in induced seismicity, a ginger group from the Triggered and Induced Seismicity Working Group (TAIS WG) of IASPEI announces *The Teamwork For Hazard Estimation For Triggered And Induced Seismicity* (THETAIS) 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. THETAIS Team of VRC-s will collectively plan research strategies, coordinate the research, ensure mutual integration and exchange of data and results of studies, and evaluate the possibilities of their practical application. For an optimum efficiency of the research, the project provides construction of infrastructure for advanced analysis and geophysical modeling of triggered and induced seismicity by creating an open active centre for observational data integrating monitoring networks, local observatories, experimental laboratories and other geological, tectonic and satellite measurements.

The first open meeting of TEAMWORK FOR HAZARD ESTIMATION FOR TRIGGERED AND INDUCED SEISMICITY was held during the ESC General Assembly in Montpellier. The THETAIS Initiative is now open and all interested are welcomed to contact us at the e-mail addresses below. Keep up-to-date with progress at the website:

http://tais.iaspei.net/index.php?option=com_content&task=view&id=69&Itemid=64.

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Job Opportunities

Positions in Geophysics

Ph.D. position in Computational Geophysics

The Applied and Environmental Geophysics Group of ETH Zurich has an immediate opening for a Ph.D. position in computational geophysics. The primary objectives of the project are to develop novel tomographic algorithms for seismic and ground-penetrating radar data.

Developments should be geared towards improved efficiency and reliability by considering new rapid forward solvers and optimized model parameterizations. The successful candidate should hold a Masters degree in geophysics, physics, mathematics or electrical engineering, and should have a keen interest and preferably some experience in numerical forward modeling and inversion. We are a dynamic international research group working on a wide variety of high profile topics in applied and computational geophysics. The working languages in our group are English and German. Interested candidates should send their Curriculum Vitae and the names and addresses of three referees by January 15, 2011 to:

Prof. Dr. Hansruedi Maurer
Institute of Geophysics
- rich
Sonneggstrasse 5
CH-8092 Zurich, Switzerland
maurer@aug.ig.erdw.ethz.ch

More information on the ETH Applied and Environmental Geophysics Group can be obtained at <http://www.aug.geophys.ethz.ch>

TENURE TRACK POSITION IN EARTHQUAKE SEISMOLOGY

At Observatorio Vulcanológico y Sismológico de Costa Rica (OVSICORI) at the National University of Costa Rica, in Heredia, C.R.

We seek qualified applicants at the national and/or international level with an established record and experience in earthquake seismology research.

MINIMUM REQUIREMENTS

- ✓ PhD in Geophysics or Seismology, emphasizing on earthquake seismology
- ✓ Publication (s) in refereed journals (first author preferred)
- ✓ Research experience using digital seismographic waveform data
- Provide name and contact information of at least 4 references

- Ability to fully communicate in English and/or Spanish
- **PREFERRED AREAS OF RESEARCH EXPERIENCE INCLUDE:**
 - ✓ Subduction zone seismology
 - ✓ Earthquake source & rupture mechanics
 - ✓ Earthquake wave propagation
 - ✓ Local and regional crust and upper mantle velocity structure

Using:

- ✓ VBB seismic data from local, regional and teleseismic distances
- ✓ strong motion accelerograph data
- ✓ signal processing and waveform correlation methods
- ✓ temporary mobile portable seismic network field studies
- ✓ earthquake analysis using "antelope" software

POSITION STATUS: tenure track position in earthquake seismology research (no formal teaching required). Salary: According to University legislation

OVSICORI-UNA is a research institute of the National University of Costa Rica (UNA) dedicated to the surveillance and monitoring of volcanoes, earthquakes and other tectonic processes, in order to mitigate their economical and social impact on the infrastructure and population of Costa Rica. OVSICORI-UNA with its 35 staff, including researchers and support personnel, maintains a Nation wide permanent seismographic network. The seismographic network is composed of short period kinematics ranger SS-1 analog and broad band Streckeisen and Nanometrics 3 component digital seismometers all transmitting real time data to the Institute in Heredia. The BB network project will comprise a total of 30 to 35 instruments distributed around the country and expected to be completed in the next 5 years. This new BB network will have strong motion and continue GPS monitoring capabilities.

JOB REQUIREMENTS INCLUDE:

- ✓ Earthquake research using local permanent seismographic network data
- ✓ Assist staff with local digital seismic network design priorities, data transmission and database management using antilope.
- ✓ Assist junior staff with the data analysis, organize seismicity catalogs and waveform archives.
- ✓ Assist OVSICORI's earthquake response team setting up scientific priorities and at the same time provide public presentations of scientific information and results obtained by OVSICORI.
- ✓ Actively promote and conduct research involving other staff members and publish these results in scientific journals on an annual basis.

Applicants must send curriculum vitae to:

Observatorio de Vulcanología y Sismología, Campus Omar Dengo Heredia

Calle 11, Avenida 7, Heredia, Costa Rica
 Office hours: 8:00 to 12:00 and 13:00 to 17:00
 PBox: 2346-3000 Heredia, Costa Rica. América Central.
 E-mail: plazasis@una.ac.cr
 Telephones 506) 2562 4001- 2261 06 11
 Fax (506) 2261 0303

Meetings Calendar

IASPEI sponsored meetings

IUGG co-sponsors symposia and workshops appropriate to our disciplines of study and supports the participation of young scientists and scientists from developing countries. For 2011, IUGG will support the following meeting endorsed by IASPEI:

- Symposium "**The 2001 Bhuj Earthquake and Advances in Earthquake Science**", Gandhinagar, Gujarat, India, 22-27 January.

A calendar of scientific meetings relevant to the interests of IASPEI scientists is maintained at:

<http://www.iaspei.org/meetings/forthcoming.html>

where more details can be found. We report below just the titles, dates, places and websites of the forthcoming meetings.

2010

AGU Fall Meeting

December 13-17, 2010, San Francisco, California, USA

Website: <http://www.agu.org/meetings/fm10/>

International Symposium on Emerging Trends in Earthquake Science (ETES-2010)

Sharing Up-to-date knowledge about Intraplate Seismicity and Seismic Microzonation

15-19 December, 2010, Institute of Seismological Research (ISR), Gandhinagar (Ahmedabad), Gujarat, India

Contact person: Dr. B.K. Rastogi:

brastogi@yahoo.com

2011

International Symposium "The 2001 Bhuj Earthquake and Advances in Earthquake Science"

January 22-27, 2011, IUGG, Raisan, Gujarat, India

For more information on the symposium, please contact: bhuj.aes2011@gmail.com

Contact person: Dr. B.K. Rastogi:

brastogi@yahoo.com

**European Geosciences Union
 General Assembly 2011**

April 03 – 08, 2011, Vienna, Austria

Website: <http://meetings.copernicus.org/egu2011/>

7th International Workshop in Statistical Seismology

May 25-27, 2011, Thera Is. (Santorini), Greece

Sponsors: National Observatory of Athens (NOA) and Earthquake Planning & Protection Organization, Greece.

This workshop is an open forum for scientists and students working in the several aspects of statistical seismology, such as earthquake physics and statistics, properties of earthquake sequences, statistical earthquake forecasting and prediction, earthquake catalogue completeness, declustering algorithms, models of earthquake recurrence, prospective and retrospective testing of earthquake forecasts, global collaboration in earthquake predictability research, real-time applications for hazard assessment. Participation of students is particularly encouraged. Policy makers on earthquake risk mitigation are also welcomed.

Contact person: Dr Gerassimos A. Papadopoulos, statsei7@gein.noa.gr.

Web site:

<http://www.gein.noa.gr/statsei7/back/index.html>.

XXV IUGG2011 General Assembly

“Earth on the Edge: Science for a Sustainable Planet”

June 27 - July 8, 2011, Melbourne, Australia

Website: <http://www.iugg2011.com>

**4th IASPEI International Symposium:
Effects of Surface Geology on Seismic Motion**
August 23-26, 2011, University of California, Santa Barbara, USA

Contact persons: Ralph Archuleta

ralph@crustal.ucsb.edu

or Jamie Steidl steidl@crustal.ucsb.edu

Website: <http://esg.eri.ucsb.edu/>

General Information about IASPEI

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

The other IUGG Associations are:

International Association of Cryospheric Sciences [\(IACS\)](#)

International Association of Geodesy [\[IAG\]](#)

International Association of Hydrological Sciences [\[IAHS\]](#)

International Association of Meteorology and Atmospheric Sciences [\[IAMAS\]](#)

International Association for the Physical Sciences of the Oceans [\[IAPSO\]](#)

International Association of Geomagnetism and Aeronomy [\(IAGA\)](#)

International 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

IASPEI welcomes all scientists throughout the world to join in research into Seismology. IASPEI is subdivided into a number of 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 web sites. 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 Web site

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

Contacting IASPEI

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

Prof Peter Suhadolc

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