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## The 37<sup>th</sup> IASPEI Scientific Assembly Göteborg, Sweden July 22-26, 2013

### IASPEI RELATED SCIENTIFIC PROGRAMME

#### *1. Seismological Observation and Interpretation Symposia*

##### **S101: Seismological Observation and Interpretation**

*Conveners:* Dmitry Storchak (UK), Johannes Schweitzer (Norway), Michael Korn (Germany)

##### **S102: Recent large/destructive earthquakes**

*Conveners:* Harsh Gupta (India), Wu Zhongliang (China)

##### **S103: Triggered and induced seismicity**

*Convener:* Stanislaw Lasocki (Poland); *Co-conveners:* Rajender Kumar Chadha (India), Tsuyoshi Ishida (Japan), Beata Orlecka-Sikora (Poland), Volker Oye (Norway)

##### **S104: Ambient noise**

*Conveners:* Mike Ritzwoller (USA), Nicolai Shapiro (France), Olafur Gudmundsson (Sweden)

##### **S105: Seismology of Polar Regions and Glaciers**

*Convener:* Vera Schlindwein (Germany); *Co-conveners:* Myrto Pirlı (Norway), Fabian Walter (Switzerland), Douglas A Wiens (USA), Trine Dahl-Jensen (Denmark)

### Foreword



Dear readers,

This short version of the IASPEI Newsletter presents the Scientific Programme (IASPEI Symposia) of our 2013 Scientific Assembly, to be held jointly with IAHS and IAPSO in

Gothenburg, Sweden (22-26 July 2013).

Please do read also the contribution on the IASPEI-ISC Project of Networking of Seismologists and consider contributing to it. Enjoy reading the Newsletter and do contribute to it with short papers and announcements.

**Peter Suhadolc**

Secretary General

Please note:

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.

## **S106: Non-instrumental seismology**

*Conveners:* Roger Musson (UK), Josep Batllo (Portugal)

### **S106a Modern macroseismology**

*Conveners:* Roger Musson (UK), Michel Cara (France)

### **S106b Investigating historical earthquakes from documentary sources**

*Conveners:* Josep Batllo (Portugal), Paola Albini (Italy)

### **S106c Archeoseismology**

*Convener:* TBD

## **S107: Array seismology**

*Conveners:* Johannes Schweitzer (Norway), Frank Krüger (Germany), Keith Koper (USA), Yuri Starovoit (Russia), Roland Roberts (Sweden)

## **S108: Real-time seismology**

*Convener:* Aldo Zollo (Italy), Masumi Yamada (Japan), Reynir Böldvarsson (Sweden)

## **2. Strong Ground Motion Hazard and Risk Symposia**

### *IAEE-IASPEI joint sessions*

## **S201: Strong ground motion**

*Convener:* Mohsen Ghafory-Ashtiany (Iran)

### **S201a: Strong motion monitoring & Record selection for engineering design**

*Conveners:* Sinan Akkar (Turkey), Alireza Azrabakht (Iran)

### **S201b: Ground Motion Prediction Equations's**

*Conveners:* Carola Di Alessandro (USA), John Zhao (China/New Zealand)

### **S201c: Earthquake scenarios**

*Conveners:* Kojiro Irikura (Japan), Hideo Aochi (France)

### **S201c: Site effects**

*Conveners:* Pierre-Yves Bard (France), Fabian Bonilla (France)

## **S202: Rotational seismology**

*Conveners:* Heiner Igel (Germany), Ana Ferreira (UK), Mohsen Ghafory Ashtiany (Iran)

## **S203: Advances in global hazard and risk analysis**

*Conveners:* Helen Crowley (Italy), Florian Haslinger (Switzerland), Marco Pagani (Italy)

## **3. Earthquake Source Modeling and Prediction Symposia**

### **S301: Earthquake sources – modeling and forecasting**

*Conveners:* Alexey Zavyalov (Russia), Ian Main (UK), Gerassimos Papadopoulos (Greece), Roland Roberts (Sweden)

### **S302: Earthquake prediction research**

*Conveners:* Ragnar Stefansson (Iceland), Volodya Kossobokov (Russia), Pascal Bernard (France)

### **S303: Synchronisation and triggering: From fracture to earthquake process**

*Conveners:* Tamaz Chelidze (Georgia), Valerio de Rubeis (Italy), Roman Teisseyre (Poland), Gennady Sobolev (Russia), Zhigang Peng (USA)

### **S304: Earthquake Source Dynamics: Observations and Modeling**

*Conveners:* Cedric Twardzik (UK), Ralph Archuleta (USA), Shamita Das (UK), Raul Madariaga (France)

## **4. Tectonophysics & Lithospheric Structure Symposia**

### **S401: Lithospheric structure, stress and deformation**

*Convener:* Kevin Furlong (USA), Ari Tryggvason (Sweden)

### **S402: Orogenic systems**

*Convener:* Kevin Furlong (USA), Valerie Maupin (Norway)

## **5. Earth Structure & Geodynamics Symposia**

### **S501: Structures in the Mantle and Core**

*Conveners:* Thorne Lay (USA), Christine Thomas (Germany), Sebastian Rost (UK), James Wookey (UK), George R. Hellfrich (UK), John Brodholt (UK)

### **S502 Dynamical Processes in the Mantle and Core**

*Conveners:* Alessandro M. Forte (Canada), Andy Nowacki (UK), Yanick Ricard (France), Stephane Labrosse (France)

## Networking of Seismologists An IASPEI-ISC Project

### Improving the Link Between the Geophysical Science and the Society During Extreme Natural Events

Following many catastrophes caused by natural events such as earthquakes and volcanoes, it became evident that we have to establish a better link within the scientific community and between the scientists and local officials. Scientific & research institutions, government bodies, charitable and relief organizations and the media are often in a need of contact with a geophysicist in a country that was affected or may be affected by a strong earthquake or tsunami.

At the following webpage you can see a prototype of the information page that IASPEI and ISC are aiming to improve and maintain:

<http://www.isc.ac.uk/projects/seismocontacts/>

To facilitate better coordination between seismologists, governmental, charity and relief organizations and the media, the IASPEI and the ISC re-engaged in the compilation of a registry of national seismological institutions with names of scientists/officials who would be willing to serve as national points of contact for other seismologists, or seismological institutions, in order to discuss possible alerts and warnings associated with current earthquakes as well as events that occurred in the past. Particular care is devoted to identifying contacts in developing countries.

This initiative focuses on facilitating communication of information when and wherever this information is available and acute in terms of disastrous earthquakes, tsunami and volcanoes. It does not by any means replace the need to deploy systems and networks, particularly in areas currently without such monitoring systems and communication infrastructure. However, it is simple and inexpensive and would be of great value to the seismological community at any time.

We are aware of a number of centres that have compiled lists of seismological institutions. However, our intention is to compile and maintain an updated list of seismologists and institutions that are willing to serve as national points of contact for receiving communications from other institutions, worldwide, evaluating the received information and disseminating it within their country to other professionals and decision-makers. We trust that whereas seismological information should better be exchanged in professional terms between seismologists, the communication of that information to politicians, emergency organizations and to other decision makers should

### **S503: Plate boundary processes**

Convener: Gregory Houseman (UK)

#### **S503a: Plate boundary processes: Oceanic Spreading Centers**

Conveners: Donna Blackman (USA), Mathilde Cannat (France), Bryndis Brandsdottir (Iceland), Ari Tryggvason (Sweden)

#### **S503b: Plate boundary processes: Subduction systems**

Conveners: Shamita Das (UK), Satish Singh (France)

#### **S503c: Plate boundary processes: Diffuse plate boundaries**

Conveners: Gregory Houseman (UK), Richard Gordon (USA), Tim Stern (New Zealand), Lucy Flesch (USA)

## 6. Education and Outreach Symposia

### **S601: Educational Seismology in Schools, Universities, and Informal Settings**

Conveners: John Taber (USA), Florian Haslinger (Switzerland), Paul Denton (UK), Matthias Ohrnberger (Germany)

### **S602: Seismo-Sociology**

Conveners: Wu Zhongliang (China), Tom Jordan (USA), Stefano Solarino (Italy)

## 7. Open Symposia

### **S701: Mathematical problems in seismology**

Conveners: Malcolm Sambridge (Australia), Yehuda Ben-Zion (USA), Klaus Mosegaard (Denmark)

### **S702: Advances in seismic data handling: from acquisition to data services, analysis and products**

Conveners: Torild van Eck (The Netherlands), Frank Vernon (USA), Giovanni Costa (Italy), John Clinton (Switzerland), Björn Lund (Sweden)

### **S703: Earthquake deformation cycle**

Conveners: Karim Aoudia (ICTP), Richard Walker (UK), Tim Wright (UK), Zoya Zarifi (Sweden)

better be made by local responsible seismologists and national seismological institutions.

As many as 19 countries in South East Asia have had their country information updated recently.

The IASPEI and the ISC are calling upon individuals and institutions to put themselves forward to serve as national contact points. If interested please contact Baokun Li (libk@seis.ac.cn).



Baokun is helping this development on behalf of the China Earthquake Networks Center (CENC), and the Institute of Geophysics of China Earthquake Administration (CEA).

Let's make a small yet important step towards our safer Earth!

## Obituaries

### Janez Lapajne, 1937 - 2012



Janez K. Lapajne, a prominent Slovene seismologist, died at his home in Domžale on April 13, 2012 at the age of 75. Born in Celje, February 11, 1937, he was a talented person in many fields. After receiving his B.Sc. in Physics in 1962 and completing a Master's degree in Economy at the Ljubljana University, he obtained a Ph.D. in Geophysics from the Zagreb University in 1978.

From 1964 to 1980 he worked as a geophysicist at the Geological Survey of Ljubljana, and the next fourteen years at the Seismological Survey of Slovenia which was in 1994 renamed to the Geophysical Survey of Slovenia. From 1994 to his retirement in 2001 he was its director. In the early nineties he was an initiator and the first president of the Slovenian Association of Geodesy and Geophysics, which soon became an official member of IUGG. After the strong earthquake in Krn mountains (NW Slovenia) in 1998, he started to establish the new Slovenian seismic network that consists of 26 seismic stations, which became one of the densest seismic networks in Europe.

As a seismologist, he worked first in the microzonation studies but his most important field was seismic hazard assessment. He is a leading author of the official seismic hazard map of Slovenia, which is in accordance with the European standard Eurocode 8. The map is based on spatially smoothed seismicity approach, which Janez Lapajne has improved in numerous ways. He also took important role in seismic hazard assessment at the location of the NPP Krško and for many other critical facilities. He led and performed many geophysical explorations in Slovenia and abroad. He located some thermal boreholes, the most well-known are in the Čatež thermal springs area. Using the magnetic method he successfully located a very rich natural mineral water reservoir known as Donat Mg.

He wrote a textbook on the principles of applied geophysics (in Slovene) and published more than 35 scientific and expert papers. Thanks to him, a short history of the Slovenian seismology is published in a small brochure (100 years of Slovenian seismology), which reveals especially the work of Dr. Albin Belar, the first Slovenian seismologist. His portrait in oil shows another talent of Janez Lapajne; he was also a painter and an illustrator.

After the retirement, he continued his work in expert groups and publishing papers. Let us also mention his long-term care for the correct usage of Slovenian language in seismology, geophysics and geology. In the last years, he was preparing a Slovenian seismological dictionary. This work is almost finished – we all hope it will be published posthumously.

We lost a great colleague and a charismatic person. He was committed to his work, and to his family. He admired nature and lived ascetic life but when needed, he was determined, uncompromising man of strong will and a fighter, which shows up also during his long illness.

Janez Lapajne is survived by his wife Marija and two sons, Janez and Simon.

Barbara Šket Motnikar and Andrej Gosar

## Meetings Calendar

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.

### 2012

#### **IUGG Conference on Mathematical Geophysics**

June 18-22, 2012, National Museum of Scotland, Edinburgh, United Kingdom

Website: <http://www.cmgedinburgh2012.org.uk/>

#### **SEDI 2012 Symposium**

1-6 July 2012, Leeds, United Kingdom

The IUGG Union Commission on the Study of the Earth's Deep Interior (SEDI) organizes biennial symposia. This year the symposium will be on the campus of the University of Leeds

The public lecture "A Seismological Journey to the Center of the Earth" will be given by E. J. Garnero of the Arizona State University (USA).

Website:

[http://sedi2012.leeds.ac.uk/SEDI\\_2012\\_program.html](http://sedi2012.leeds.ac.uk/SEDI_2012_program.html)

#### **34th International Geological Congress (IGC)**

August 5-10, 2012, Brisbane, Australia

Contact: [info@34igc.org](mailto:info@34igc.org)

Website: <http://www.34igc.org/>

#### **AOGS-AGU (WPGM) Joint Assembly**

August 13-17, 2012, Sentosa Island, Singapore

Contact: [info@asiaoceania.org](mailto:info@asiaoceania.org)

Website: <http://www.asiaoceania.org/aogs2012/>

#### **33rd General Assembly of the European Seismological Commission**

August 19-24, 2012, Moscow, Russia

Contact: Devochkina Anastasia -

[esc2012@onlinereg.ru](mailto:esc2012@onlinereg.ru)

Website: [www.esc2012-moscow.org](http://www.esc2012-moscow.org)

#### **4th International Disaster and Risk Conference**

August 26-30, 2012, Davos, Switzerland

Contact: Walter J. Amman

[grf-presidency@grforum.org](mailto:grf-presidency@grforum.org)

Website: [http://idrc.info/pages\\_new.php/IDRC-Davos-2012/831/1/](http://idrc.info/pages_new.php/IDRC-Davos-2012/831/1/)

#### **9<sup>th</sup> General Assembly of Asian Seismological Commission 2012**

September 17-20, 2012, Ulaanbaatar, Mongolia

Contact: [demberel@rcag.ac.mn](mailto:demberel@rcag.ac.mn)

Website: [www.asc2012.mn](http://www.asc2012.mn)

#### **EMSEV2012 in Japan**

September 30 – October 5, 2012, Gotemba, Shizuoka, Japan

Contact: EMSEV2012 LOC

[emsev2012loc@emsev-iugg.org](mailto:emsev2012loc@emsev-iugg.org)

Website: <http://www.emsev-iugg.org/gotemba/>

#### **ECGS Workshop on:**

##### **Earthquake source physics on various scales**

October 3-5, 2012, Luxembourg

Contact: [source2012@ecgs.lu](mailto:source2012@ecgs.lu)

Website: <http://www.ecgs.lu/source2012>

#### **Conference and Advanced School on QUANTIFICATION OF**

##### **EARTHQUAKE HAZARDS IN THE CARIBBEAN: THE GONAVE MICROPLATE**

November 26 to December 7, 2012

Santiago de Cuba, Cuba

Submit applications online through the activity webpage

<http://agenda.ictp.it/smr.php?2380>

Contact: [smr2380@ictp.it](mailto:smr2380@ictp.it)

Website: <http://www.ictp.it/>

#### **1st International Conference on Frontiers in Computational Physics: Modeling the Earth System**

December 16 – 20, 2012, Boulder, CO, USA

Website:

<http://www.frontiersincomputationalphysics.com/>

#### **Fall Meeting of the Americal Geophysical Union**

December 3-7, 2012, San Francisco, CA, USA

Website:

<http://fallmeeting.agu.org/2012/>

### 2013

#### **EUG General Assembly 2013**

April 07-12, 2013, Vienna, Austria

Website: <http://www.egu2013.eu/>

#### **Joint Scientific Assembly of IAHS-IAPSO-IASPEI**

July 22 – 26, Gothenburg, Sweden

Contact: [iahs.iapso.iaspei2013@congreg.com](mailto:iahs.iapso.iaspei2013@congreg.com)

Website: [www.iahs-iapso-iaspei2013.com](http://www.iahs-iapso-iaspei2013.com)

#### **8th International Symposium on Rockbursts and Seismicity in Mines**

September 2013, St.-Petersburg and Moscow, Russia

Website: <http://pts.mi-perm.ru/rasim.>

## 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:

Int'l Association of Cryospheric Sciences ([IACS](#))

Int'l Association of Geodesy ([IAG](#))

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 Geomagnetism and Aeronomy ([IAGA](#))

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

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.

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