



IASPEI NEWSLETTER Feb-Mar 2007

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1. IUGG General Assembly in Perugia (Italy) 2007

SUBMIT YOUR ABSTRACT NOW!

Electronic Abstract Deadline: February 28, 2007

Preparations are continuing for the IUGG General Assembly, July 2 – 13, in Perugia, Italy. The Abstract Deadline for electronic filing is expiring tomorrow February 28, which is also the deadline for applications for **travel support**. The General Assembly web site (www.iugg2007perugia.it), also accessible from the IUGG home page (www.IUGG.org), includes all the instructions and forms. Information on registration fees and reservations for accommodations and field trips is in the Third Circular, posted on the General Assembly website. The Third Circular has already been updated from its initial release, so be sure to refresh your screen image of the Circular before printing out the forms. The deadline to register at a reduced fee is 30 April, also the deadline to reserve accommodations through the Local Organizing Committee. After 30 April, all hotel rooms being held by the LOC will be released and they will no longer be able to assist with bookings.

Website: <http://www.iugg2007perugia.it/>

"The Sound of Physics: Advances in coronal, helio-, astero- and terrestrial seismology"

Special Session JAS011, July 5, 2007

Jointly sponsored by IAGA, IAMAS and IASPEI at the International Union of Geophysics and Geodesy Meeting in Perugia, Italy, July 2-13, 2007

<http://jas011.asteroseismology.org/>

This special session will provide a forum to compare techniques and approaches in various seismological regimes and to highlight recent advances in each. Our invited speakers span a wide range of disciplines, using seismology to diagnose the structure of solid, gaseous, and plasma structures on planets, stars, and magnetic atmospheres, including:

Markus Aschwanden, Lockheed Martin Solar and Astrophysics Laboratory, USA

William J. Chaplin, University of Birmingham, UK

Maria Pia DiMauro, Istituto di Astrofisica Spaziale e Fisica Cosmica, Italy

Laurent Gizon, Max-Planck-Institut fuer Sonnensystemforschung, Germany

Hans Kjeldsen, University of Aarhus, Denmark

Valery Nakariakov, University of Warwick, UK

Barbara Romanowicz, University of California, Berkeley, USA

Jeroen Tromp, California Institute of Technology, USA

Contributions for oral and poster presentations are welcome and encouraged.

We hope to attract contributions from many seismological regimes. Electronic Abstract Submissions and Travel Grant Applications are due ***28 February 2007***.

Please check the session website for updates, or contact the conveners for more details: <http://jas011.asteroseismology.org/>

Session Abstract: "The Sound of Physics: Advances in coronal, helio-, astero- and terrestrial seismology"

Seismological techniques are now being applied in regimes throughout the universe to elucidate the physical properties and behavior of dynamic structures. Sound waves, magneto-hydrodynamic waves, and other propagating disturbances allow researchers to "sound out" the interior structure and dynamics of a wide range of geophysical and astrophysical objects. The development of remote sensing techniques using Doppler signatures have allowed us to determine the interior flows and structure of the Sun, providing an unprecedented view of the inner workings of our nearest star. Additionally, the field of asteroseismology is helping us to perform similar research on other stars, which in turn allows us to better understand our own Sun by providing other data points on the stellar spectrum. The new field of coronal seismology is providing the ability to deduce physical parameters that aren't accessible through direct observations, by modeling the dynamics of structures in the solar atmosphere in response to a variety of impulsive transients.

As these applications of seismology continue to flourish, terrestrial seismologists have also produced new advances in data collection and interpretation. This

special session welcomes presentations on scientific results, innovative techniques, and new applications in all fields of seismology, with a special emphasis on the parallels between these fields.

Convener:

T.S. Metcalfe <travis@hao.ucar.edu>

Co-Conveners:

B.J. Thompson, NASA Goddard Space Flight Center, USA;

S.J. Schwartz, Imperial College, UK.

U.S. Travel Grants to attend the IUGG General Assembly in Perugia

AGU has received a grant from the National Science Foundation to assist the travel of students and young scientists from the United States to participate in the 2007 IUGG General Assembly, including special sessions and symposia for the seven associations of IUGG: IAG, IAGA, IAHS, IAMAS, IAPSO, IASPEI, and IAVCEI. To view the entire scientific program and submit an abstract:

<http://www.iugg2007perugia.it/abstracttype.asp>

For general information about the IUGG meeting, see

<http://www.iugg2007perugia.it/>

Abstract Submission Deadlines: 28 February 2007

Travel Grant Application Deadline for all sessions: 28 February 2007

Apply at: http://www.agu.org/meetings/STG/iugg_stg.html

2. Andrija Mohorovičić (1857–1936) was born 150 years ago

Andrija Mohorovičić, geophysicist of the world renown and one of the greatest Croatian scientists of all times, was born 150 years ago, on 23 January 1857 in Volosko near Rijeka, Croatia. In 1875 he enrolled into the Prague University to study mathematics and physics. After graduation, he taught at high schools in Zagreb and Osijek, and on the Nautical School in Bakar. In the year 1892 he became director of the Meteorological Observatory in Zagreb. The following year Mohorovičić obtained the doctorate of philosophy at the Zagreb University, where he was later elected a titular associate university professor to teach courses on geophysics and astronomy. He became the corresponding member of the Academy in 1893, and the full member in 1898. Mohorovičić retired in 1922. In the beginning of his career, Mohorovičić is engaged in meteorology. His scientific interests lay in the explanation of various meteorological phenomena – atmospheric dynamics and observations of rare events (tornado near Novska, whirlwind near Čazma). He also studied the climate of Zagreb, and the decay of temperature with height. Without having proper instruments, he builds his own nephoscope, a *camera obscura*-like instrument for observation of clouds. These

observations formed the basis for his dissertation. As only recently re-discovered, Mohorovičić was probably the first to describe atmospheric rotors with the horizontal axis, which he observed during bora-wind episodes at the northern Adriatic. Although the paper about it appeared in 1889 in one of the leading meteorological journals of the time, and was immediately translated into English, it somehow disappeared from the lists of references in the 1930-ies. The following citation of his, from 1901, is perhaps the best to illustrate how clear his visions are: *“...The ultimate goal of a meteorologist is to set up a system of differential equations of the movements of the air, and to obtain as an integral the general atmospheric circulation, and as particular integrals the cyclones, anticyclones, tornados, and thunderstorms...”*. A perfect description of today's weather forecast, at the very beginning of the 20th century it was even beyond science fiction... Mohorovičić is also recognized for the unification of the meteorological service in Croatia and Slavonia, and was the first in Croatia to publish weather forecasts in daily papers.

About the turn of the centuries Mohorovičić's scientific interest turned almost exclusively to seismology. The reason for this dramatic change is not known – one can only speculate that intense seismic activity around the Croatian capital in the late 19th century ignited the spark in his curious mind. The formal background was also set, as an Earthquake Committee of the Academy was established in 1880 when Zagreb was devastated by a large earthquake, and Mohorovičić later became actively involved. He founded the Zagreb seismological station in 1906, when he installed the Vicentini-Konkoly seismograph in the basement of the Meteorological Observatory (and on the seismogram number 9 he recorded the great San Francisco earthquake!). Soon he realized that better instruments are needed, and purchased the Wiechert horizontal seismographs of 80 and 1000 kg, which became operational in 1908 and 1909. And in his words: *“... with this we are on the level with all the better observatories in Central Europe...”*. The meticulous analyses of recordings of the Kupa Valley earthquake of 8 October 1909 made by these instruments, together with seismograms collected from all over Europe, enabled him to prove the existence of the crust-mantle boundary, which later became known as the Mohorovičić discontinuity. This unveiling of one of the big secrets of the Earth's interior places him among the founding fathers of the modern seismology. It was in line with how he saw the essence of this young scientific discipline: *“... The goal of seismology is to study the interior of the Earth, and to continue where the geologist stops, and it has in modern seismographs a sort of binoculars that enables us to look into the largest of depths...”*. This discovery, recognized as one of the milestones of science in the beginning of the 20th century, is also the most important scientific contribution ever published in a Croatian journal. There are also other, less known achievements of his – let's only briefly mention his exponential law of velocity increase with depth, an elegant method of location of epicentres (Mohorovičić's epicentrals), a method to determine total friction in mechanical seismographs, a novel seismograph design (unfortunately never realized), etc. Mohorovičić was also among the first to recognize the importance of seismic resistant design of buildings. Indeed, in a series of lectures in the

Croatian Society of Engineers and Architects, as early as 1909 he attempts to “... explain how the Earth trembles, and how these tremors affect buildings, and draw attention to some principles that both architects and building contractors should follow...”. Furthermore: “... In order to study earthquake effects on buildings, we must first accurately represent the shaking of soil beneath the building, as well as the forces the shaking exerts, and then we must study how these forces affect the building as a whole and its individual parts...”. He goes on to analyze the effects of building resonance, and computes accelerations for various ratios of the period of dominant shaking and the building eigen-period. Quite ahead of his time, he sets some of the basic principles of earthquake resistant design, and warns against erecting heavy buildings on soft and steep slopes, suggests firm joints between basic building skeleton, the beams and the walls, etc. He was also the first one to statistically compute expected exposure of buildings in Zagreb to earthquakes, and tries to persuade entrepreneurs “...to consider the earthquake hazard and spend more, in order to make buildings more resistant and safe...”.

Andrija Mohorovičić was a very careful, pedantic and diligent scientist, who enjoyed to search for explanations of observations in theory, but never favoured theory over observations. A true erudite, he spoke – besides his mother tongue – also English, German, Italian and French (in addition to Latin and Greek). He published about 40 papers, of which he was always the only author. This speaks not of his vanity, but rather of hard conditions he had to work in, resulting in a persistent shortage of co-workers. His thoughts and ideas were truly visionary, often decades before his time (harvesting the wind energy, hail suppression, Earth and atmosphere models, deep earthquakes, earthquake-resistant design...). In 1970 one of the craters on the dark side of the Moon was named after him, as was the asteroid No. 8422 in 1996. Since recently, the crust-mantle boundary on the Moon as well as on the Mars is also called the Mohorovičić discontinuity. Andrija Mohorovičić, as only very few Croatian scientists of the international reputation ever, made his whole career in his homeland, where he is recognized as the founder of the Zagreb seismological school, the Croatian seismological and meteorological surveys, and of the public time service. Owing to the tradition he initiated, University of Zagreb is among the few in the world awarding a degree in seismology on the undergraduate level. Croatian scientific community will mark this anniversary by a series of lectures and articles during the whole 2007, and a postage stamp dedicated to him will be issued in April. His bust will be erected in front of his house in Volosko. The main event will be an international meeting with invited speakers (in Zagreb and Opatija, October 2007) dedicated to Mohorovičić’s scientific legacy and to development of geophysics since his times.

*Marijan Herak and Davorka Herak
Andrija Mohorovičić Geophysical Institute
Department of Geophysics, Faculty of Science
University of Zagreb*

3. International Working Group on Rotational Seismology (IWGoRS) established

Joining IWGoRS mailing list

If you are not yet a member, and you wish to become a member, or just to receive information on our activities, please spend a minute and register by visiting our website at: <http://www.rotational-seismology.org> or by directly linking to: http://www.rotational-seismology.org/join_form . You only need to provide your name and email address, and have the choice to sign up on all or selected subgroup E-mail lists.

What is IWGoRS?

IWGoRS is a "grass root" international working group of volunteers, unlike traditional working groups appointed by some authority. We have no officers, no dues, no staff, and no funding to operate or distribute. Anyone can join either as an "associate member" to receive our newsletters and emails, or as an "active member" to lead a new "task forces", or join an existing one. Our provisional charter is posted at: <http://www.rotational-seismology.org/library/downloads/charterv3>

We use our Website to promote rotational seismology by sharing ideas, data, software, etc. Its access is free and does not require membership. In order to get IWGoRS started, Heiner Igel and Willie Lee are now serving as "co-organizers". We also have several active members leading our current task forces listed at: <http://www.rotational-seismology.org/research>

AGU session and inauguration lunch.

Given that rotational seismology is still a fairly exotic field, the size of the audience (over 100) that attended the first AGU session dedicated to rotational motions was remarkable. From the questions and discussions following the presentations, it became clear that rotational motions are of current interest to a wide range of disciplines such as: strong-motion seismology, exploration geophysics, long-period seismology, earthquake engineering, earthquake physics, seismic instrumentation, seismic hazard, geodesy, astrophysics, etc., confirming the timeliness of the installation of the IWGoRS. Forming of the IWGoRS is the result of a mini-workshop on Rotational Seismology organized by Willie Lee, Ken Hudnut, and John Evans in February of 2006. This first workshop was organized in response to grass root interest, without any funding, and was held at the Menlo Park and Pasadena USGS offices by teleconferencing.

At the inauguration luncheon, it became clear that to properly enable an effective international collaboration within the IWGoRS, a workshop would be needed, which would allow sufficient time to discuss the many issues of interest. In the following, we summarize some of the issues that were discussed:

IWGoRS Workshop. The first IWGoRS Workshop will be organized by the US members of the working group, led by Willie Lee, Maria Todorovska, and Mehmet Çelebi. Potential funding sources are USGS, NSF, etc.; Autumn 2007 is the target time window, depending on securing funding. If funding for a stand-alone workshop is not available by that time, we will organize another AGU session on rotational seismology in December 2007, and possibly a small workshop during the AGU Meeting. The second Workshop will be organized by the European members of the working group.

Sensors. Bob Nigbor's group has been testing the R-1 and RSB20 sensors in southern California, and the results are encouraging. Further testing will be conducted in Taiwan (by B. S. Huang, C. C. Liu, and C. F. Wu) in 2007, along with a small array of accelerometers that allows comparison with array-derived rotations.

Ring lasers. We seek to install a standard acquisition system for the various ring lasers installed worldwide. This will be based on the Quanterra system. Each location should be equipped with a standard broadband sensor. Cooperation with IRIS (Frank Vernon) is planned. Data should in the long term be distributed through the data management centers like IRIS.

We have posted most presentations in electronic form onto the IWGoRS web site accessible via [home](#) → [events](#) → [special sessions](#) pages. In the meantime, these presentations, as well as those of the first mini workshop, and many other useful items awaiting to be ported on the IWGoRS website can be found on a parallel FTP site maintained by John Evans at:
<ftp://ehzftp.wr.usgs.gov/jrevans/RotationsWorkshop/>

Open positions

LMU Munich has an open two-year postdoc position for a project on rotational seismology. Please forward this information to any potential candidates who should contact heiner.igel@lmu.de .

Heiner Igel <heiner.igel@lmu.de>
Willie Lee <lee@usgs.gov>
John Evans <jrevans@usgs.gov>
Maria Todorovska <mtodorov@usc.edu>

4. News in short

The Federation of Earth Science Information Partners

is a network of researchers and associated groups that collects, interprets and develops applications for satellite-generated Earth observation information. Founded in 1998 under a grant from NASA, the consortium

includes more than 90 member organizations, spanning NASA's and NOAA's data centers, government research laboratories, research universities, education resource providers, technology developers, and nonprofit and commercial enterprises. For details see: <http://esipfed.org/>

International Telecommunications Union (ITU) Resolution Supporting CAP Standard for All-Media, All-Hazards Public Warning

At the ITU Plenipotentiary Conference in Antalya, Turkey, during November 2006, the Union recognized the need for a common understanding of network infrastructure components required to provide rapidly installed, interoperable, robust telecommunication capabilities in humanitarian assistance and disaster relief operations and the importance of working towards the establishment of standards-based monitoring and worldwide early-warning systems, based on telecommunications/ICTs, that are linked to national and regional networks and that facilitate emergency disaster response all over the world, particularly in high-risk regions. They recommended adoption of an international standard for communication of alert and warning information by appropriate alerting authorities. The Common Alerting Protocol (CAP) is the international standard for all-media public warning.

New Journal of Earth Science Informatics (JESI)

The first issue of JESI is scheduled for January, 2008. This international, English-language journal publishes original, interdisciplinary articles on all aspects of informatics dealing with the Earth system. Informatics is the science of the application of formal and computational methods to the systematic analysis, management, interchange, and representation of information and knowledge. Earth Science Informatics, as a scientific discipline, focuses on two major aspects: (i) the formal representation of the spatial and temporal relationships between entities in the Earth system and (ii) the design, development, and application of computational tools to acquire, store, analyze, visualize, manage, represent, utilize and communicate information about the spatiotemporal dynamics of the Earth system. More information is available at: <http://www2.gsu.edu/~geohab/pages/Journal%20of%20Earth%20Science%20Informatics/JESI.htm>.

2008 - The Year of Science and Technology for Africa

The African Union is proposing that 2008 be declared the Year of Science and Technology for Africa. If this is endorsed by the African Heads of State and Governments Summit in Addis Ababa, January 2008, it will coincide with the UN-declared Year of Planet Earth in 2008, the climax of the International Polar Year (IPY) and the Electronic Geophysical Year (eGY),

and ICSU General Assembly in Mozambique (2008). As part of the eGY effort to reduce the digital divide, a working group is being formed to address the issue of improving the cyber-infrastructure for science in Africa. This links to IUGG's Geoscience in Africa program, and will operate through ICSU's Regional Office for Africa. We hope to partner with CODATA in this endeavour. Please email charles.barton@anu.edu.au with any enquiries.

5. Post-doc grants and job opportunities

Post-Doc/Post-Graduate Grant in Engineering Seismology at O.G.S., Trieste, Italy

The "Engineering Seismology and Techniques Applied to Risk" research group of the the National Institute of Oceanography and Experimental Geophysics - OGS in Trieste kindly requests you to publicize the following announcement for the assignment of A RESEARCH GRANT (see: <http://www.ogs.trieste.it/>) in the field of "REGIONAL SEISMIC HAZARD SCENARIOS AND THE CALCULATION OF LOCAL SEISMIC RESPONSE" at the Department of "Geophysics of the Lithosphere" of OGS. (Official Gazzette n. 3 of 09.01.2007 - **deadline 10.3.2007**)

We wish to mention below the principal points of the announcement: "The research grant is of a 12 month duration and can be renewed up to a maximum limit of 8 years or 4 years if the assignee has already been given a grant for his/her doctoral studies [...] participation is universal, without limitations of nationality [...]. Those who have the following prerequisites by 10/3/2007 can participate in the selection : a) degree (as per the old Italian system, or equivalent) or specialized degree (new Italian system) in the following subjects: geological sciences, environmental sciences, physics, mathematics or engineering; b) a Ph.D. in disciplines similar to those that are the object of this announcement or a post-graduate experience of at least 3 years in at least one of the following fields: geophysics; seismology; treatment of seismic signals; soil dynamics; seismic engineering; c) knowledge of operative systems and scientific programming languages; d) knowledge of written and spoken English.

Scientific info: sirovich@ogs.trieste.it

This is a simple summary in English to publicize the news. Of course, from a legal standpoint, the official publication in the Italian «Gazzetta Ufficiale» is valid. All requests should be sent in paper form to:

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS
Ufficio Amministrazione del Personale
Borgo Grotta Gigante 42/c
34010 Sgonico
Trieste - Italy

RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES - 2007

Participation is open to all categories of organizations, foreign and domestic, including educational institutions, industry, nonprofit organizations, NASA centers, the Jet Propulsion Laboratory, and other Government agencies.
<http://procurement.nasa.gov/cgi-bin/eps/synopsis.cgi?acqid=123364>

Post-doc position in Munich

LMU Munich has an open two-year postdoc position for a project on rotational seismology.

Any potential candidates who should contact: heiner.igel@lmu.de

6. FORTHCOMING MEETINGS (MARCH-DECEMBER 2007)

Second Alexander von Humboldt International Conference on "THE ROLE OF GEOPHYSICS IN NATURAL DISASTER PREVENTION"

March 5-9, 2007, Lima, Peru

Contact persons: Ron Woodman & Peter Fabian, Chairmen of the Scientific Program Committee

Download 2ndConference-Circular2-Version 9.pdf:

Registration through: <http://www.cosis.net/>

Website: <http://www.meetings.copernicus.org/avh2/>

eGY General Meeting

March 13-14, 2007, Boulder, Colorado, USA

The 2007 eGY General Meeting will be held in the NCAR Center Green Facility (<http://www.ucar.edu/org/bouldermap.shtml>) in Boulder, Colorado, on March 13-14 2007. The meeting will cover reports from our Working Groups and International groups, and reviews of developments relevant to eGY (WDCs, GEOSS, AGU-ESSI, EGU, ICSU, the other international science years, and so on). A principal objective will be planning eGY events and activities for 2007 and 2008.

The closest hotel (a one minute walk) is the Residence Inn (<http://marriott.com/property/propertypage/VBOCG>). Travel information for the meeting can be found at: http://www.egy.org/Files/Mtg_Travel_Info.pdf. An agenda will be posted on the eGY web site.

Joint inversion workshop

14-16 March, Dublin, Ireland

The Geophysics Section of the School of Cosmic Physics, Dublin Institute for

Advanced Studies, is organizing a workshop on joint inversion from 14-16 March, 2007. The aim of this workshop is to bring together researchers working in the area to discuss current issues in joint inversion of different geophysical datasets. During these three days only a small number of presentations will be given with enough time for extended discussions and practical applications where

possible. Work in progress and new ideas will be the focus of this meeting. So far topics include, structural classification, inversion techniques, resolution analysis and automatic differentiation. You can find more information including practical issues at:

http://www.cp.dias.ie/~mm/workshop_2006.html

Space is limited, so early "registration" is recommended.

(Also, accommodation in Dublin is scarce over the St. Patrick's Day weekend - so book early.)

Contact person: Max Moorkamp <mm@cp.dias.ie>

Second International Conference on the Geology of the Tethys 19-22 March, 2007, Cairo University, Egypt

Abstracts should be submitted before January 1, 2007, up to 300 words written in two languages, English is one of them. The original of the manuscripts together with the originals of figures, plates, graphs and charts should be submitted before January 30, 2007.

Organizer: The Tethys Geological Society

Website: WWW.TGS-International.com

Contact person: Prof. El Sayed Abd El Aziz Aly Youssef

E: mail: elsayedyousssef2005@yahoo.com

elsayedyousssef@hotmail.com

or elsayedyousssef@internetmisr.net

European Geosciences Union (EGU 2007)

15-20 April 2007, Vienna, Austria

The EGU General Assembly will be held again at the congress centre Austria Center Vienna (ACV) in Vienna, Austria, from 15-20 April 2007 with an early registration and the icebreaker reception taking place on Sunday, 15 April 2007.

Deadline for Receipt of Abstracts: **15 January 2007**

http://www.cosis.net/members/meetings/programme/overview_db.php?m_id=40

Website: <http://meetings.copernicus.org/egu2007>

The 2007 Annual Meeting of the Seismological Society of America

April 11-13, 2007, Hawaii, USA

Abstracts are now being accepted. Submit online at

<http://www.seismosoc.org/meetings/2007/absub/index.html>

until January 12, 2007.

For descriptions of the special session, see

http://www.seismosoc.org/meetings/2007/special_sessions.html.

Room reservations at the Hilton may be made immediately.
See the official meeting website for more information:
<http://www.soest.hawaii.edu/ssa2007/>

**International Symposium on Seismic Risk Reduction
26-27 April 2007, Bucharest, Romania**

The Symposium is organized within the frame of the Japan International Cooperation Agency (JICA) Technical Cooperation Project with Romania entitled "Seismic risk reduction for buildings and structures", implemented in Romania by the National Center for Seismic Risk Reduction (NCSRR) and its partner institutions from Romania and Japan.

The two days Symposium will cover issues related to seismic risk, from seismic ground motion and ground conditions to seismic evaluation and seismic rehabilitation, seismic knowledge dissemination, etc.

The participation to the Symposium is free (no registration fee).

Contact person: Alexandru Aldea <issr2007@utcb.ro>

Web site: <http://cnrrs.utcb.ro/issr2007/issr2007.html>

Seismology Workshop 2007: "Neotectonics and Mining Seismology - is a Relationship Possible?"

8 May 2007, Pretoria, South Africa.

Organized by the Seismology Unit of the Council for Geoscience (CGS).

This workshop shall attempt to try to address the question of whether the mining industry can benefit from the new discoveries in the field of neotectonics. The Seismology Workshop 2007 will run throughout the day from 08:00 to 15:20 and end with open discussions on the topics raised.

Refreshments and a finger lunch will also be served. There is no registration fee, but the final date for registration is 23 April 2007.

Please feel free to contact us, with any questions you may have regarding the arrangements for the Seismology Workshop 2007

The CGS looks forward to welcoming you to Pretoria

Contact person: Dr Artur Cichowicz <artur@geoscience.org.za>

Website: <http://www.geoscience.org.za>

Workshop on the Physics of Tsunami, Hazard Assessment Methods and Disaster Risk Management

14 -18 May 2007, Abdus Salam International Centre for Theoretical Physics - Trieste, Italy

ICTP Home Page: <http://www.ictp.it/>

Contact person: Ms. G. De Meo <smr1839@ictp.it>

1st IASME/WSEAS International Conference on GEOLOGY and SEISMOLOGY GES'07

May 15-17, 2007, Portoroz (Portorose), Slovenia.

Special session "**Site-Dependent Deterministic and Probabilistic Seismic Hazard Analysis**".

Topics of this session:

1. Analysis of site response on earthquake ground motion using empirical data and numerical modeling
2. Development of site-dependent attenuation relationships
3. Analysis and modeling of specific effects related to site geology and geotechnical characteristics, such as influence surface and buried topography, non-linear response of soils, etc.
4. Seismic microzonation studies including site characterization techniques, general methodology and application for particular areas
5. Seismic hazard assessment and accounting for uncertainties

Special Session „**Source modeling: from earthquake to seismic cycle**”

The Session is on state-of-the-art of seismic source modelling, scaling laws, short-term and long-term earthquake behavior and simulation techniques.

For full details how to submit your paper please visit the conference web site at

<http://wseas.org/conferences/2007/slovenia/ges/internet.htm>

<http://wseas.org/conferences/2007/slovenia/ges/authors.htm>

For full details about the Conference please visit website at

<http://wseas.org/conferences/2007/slovenia/ges/index.html>

If you intend to do so, you are expected to submit the paper before 28 February 2007

Contact person: Vladimir Sokolov, <Vladimir.Sokolov@gpi.uni-karlsruhe.de>

American Geophysical Union Joint Assembly

May 21-25, 2007, Acapulco, Mexico

Website: www.agu.org/meetings/ja07/

Subduction Zone Geodynamics Conference - SEDI

Montpellier, France 4-7 June 2007

The conference will focus on recent developments in subduction zone dynamics, covering the themes of Geodynamics & physical models, Seismogenic zone & Seismic hazard, Tectonics

(active margins & back-arc basins), Geochemistry (subduction factory & magmatism), Petrology, metamorphism & Mineral Physics.

Venue: Le Corum International Conference Centre in Montpellier, France, situated in downtown Montpellier.

Contact person: Francesca Funiciello <ffunicie@uniroma3.it> and Serge Lallemand (lallem@dstu.univ-montp2.fr)

Website: <http://www.dstu.univ-montp2.fr/SUBCO/>

Fifth International Conference on Seismology and Earthquake Engineering (SEE5)

May 14-16, 2007, Tehran, Iran

Topics to be addressed include Seismotectonic, Seismology, Earthquake Prediction, Geotechnical Earthquake Engineering, Structural Earthquake Engineering, Public Awareness and Risk Management.

Pre-registration: January 20th, 2007

Full papers are due: January 20th, 2007

Webpage: www.iiees.ac.ir/SEE5 or www.see5.ir

Contact person: Mohammad Mokhtari, SEE5 coordinator <See5@iiees.ac.ir>

4th International Conference on Geotechnical Earthquake Engineering June 25-28, 2007, Thessaloniki, Greece

The Technical Committee of Earthquake Geotechnical Engineering of the International Society of Soil Mechanics and Geotechnical Engineering, the Hellenic Scientific Society of Soil Mechanics and Geotechnical Engineering and Aristotle University of Thessaloniki, are very pleased to invite you to join us in the 4th International Conference on Geotechnical Earthquake Engineering in Thessaloniki on June 25-28, 2007.

More about 4icege we invite you to visit the web page of the conference:

<http://www.4icege.org>

We are sure that you will find participation in **4ICEGE** professionally rewarding, scientifically stimulating and personally enjoyable and look forward to meeting you in Thessaloniki in June 2007.

Kyriazis Pitilakis, *Chairman of 4ICEGE*, <secretariat@4icege.org>

International Training course on "Array Seismology"

June 30 - July 3, 2007, Arezzo, ca. 75 km NW of Perugia (Italy)

Organized in the framework of the IUGG/IASPEI 2007 General Assembly and endorsed by the IASPEI Commission on Education and Outreach Program:

- Introduction to the Seismic Handler software
- Beamforming/fk analysis of teleseismic, regional and local events
- Array analysis for site effect studies

The course consists in introductory lectures on theory, applications and in practical exercises. The participants should be familiar with linux and are invited to bring their own (linux!)notebooks.

The number of participants is limited to maximal 20 persons. Priority will be given to young researchers.

Requests should be send until 31.03.2007 to braun@ingv.it.

Contact person: Thomas Braun, INGV <braun@ingv.it>

24th IUGG General Assembly, Perugia (Italy)

2-13 July 2007, Perugia (Italy)

SUMMARY OF IMPORTANT DEADLINES

Electronic submission of abstracts: February 28

Grant Application: February 28

Early Bird Registration: April, 30

Accommodation Booking: April, 30

Exhibition Booking: April, 30

Website: <http://www.iugg2007perugia.it/>

IUGG Contact person: LOC, <secretary@iugg2007perugia.it>

IASPEI Contact person: Peter Suhadolc <suhadolc@units.it>

International Symposium on

"Paleomagnetism and the Earth's Deep Interior: Unsolved Problems and Future Challenges"

5-8 July 2007, Beijing, China

Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing
Supported by National Natural Science Foundation of China and Chinese Academy of Sciences.

Topics will include the behaviour of the Earth's ancient and current magnetic fields, the methodologies and theories of paleomagnetic studies, the dynamics of the Earth's deep interior, interactions of the core and lower mantle and the theories and numerical simulations of the Earth's dynamo.

Website: <http://www.paleomag.net/meeting>.

The abstract and registration deadline: 1 April 2007.

There will be no registration fee.

ENGINEERING NATURE 2007

First International Conference on the Art of Resisting Extreme Natural Forces 11–13 July 2007, The New Forest, UK

Website: <http://www.wessex.ac.uk/conferences/2007/engnature2007/1.html>

Contact person: Rachel Creasey

Email: rcreasey@wessex.ac.uk or Fax: + 44 (0) 238 029 2853

**3rd International conference on Scale-Frequency Phenomena - the "Rainbow in the Earth" meeting INTERPRETING RESERVOIR ARCHITECTURE USING SCALE-FREQUENCY PHENOMENA
29 July - 1 August 2007, Edinburgh, UK.**

The formal title is "Frequency-Dependent Geophysical Properties", but any paper concerned with rock physics, scale in general, attenuation, dispersion, anisotropy or a related field will be very welcome. We hope to have papers on theoretical, laboratory and field studies, as well as papers on both seismic and EM methods. We'd like to invite papers, of no more than two pages in length, before the 30th April.

Website: http://www.eap.bgs.ac.uk/rainbow2007/rainbow_workshop.doc

Contact person: Mark Chapman, mhch@bgs.ac.uk

International Workshop on Numerical Modeling of Mantle Convection and Lithospheric Dynamics

2-7 September 2007, Carry-le-Rouet, close to Marseille (France)

Contact person: Stephane Labrosse <stephane.labrosse@ens-lyon.fr>

International Workshop in Mongolia

Summer 2007

The Department of seismology of the RCAG, Research Center of Astronomy and Geophysics - Mongolia (www.rcag.url.mn) is organising, with my collaboration, a workshop in Mongolia during summer 2007. It is the conference of the 50 anniversary of Research Center of Astronomy and Geophysics with a field workshop commemorating the 1957 Gobi-Altai earthquake (magnitude 8.1).

You will find all the relevant information about the conference by visiting the congress web site :

<http://www.rcag.url.mn/seis/index.html>

This event is a great opportunity to bring together researcher interested by active deformation and seismology in continental areas. Also, it is a great opportunity for Mongolia to improve its international collaboration in the field of seismology and seismic hazard.

Contact person: Schlupp Antoine

Laboratoire de Tectonique Active

Ecole et Observatoire des Sciences de la Terre, Strasbourg

Email: antoine.schlupp@eost.u-strasbg.fr

Workshop on Numerical Modeling of the Earthquake Source Dynamics, September 2-6, 2007, Smolenice Castle, Slovakia

The sessions of the workshop will cover the following topics:

- friction law
- rupture history
- stress distribution on the fault
- role of heterogeneities
- energy budget and seismic radiation
- earthquake interaction
- numerical techniques
- modeling real earthquakes
- slow earthquakes

Second Announcement and Call for Abstracts: February 2007

Deadline for registration: 31 May 2007

Deadline for receiving abstracts: 30 June 2007

Third Announcement and Program: 31 July 2007

Contact persons: Andrej **Cipciar**, Miriam **Kristeková**

Email: NMESD2007@nuquake.sk

Website: <http://www.nuquake.eu/NMESD2007/>

**XVII International Conference on Electromagnetic Disturbance (EMD'2007)
19 to 21 of September, 2007, Białystok, Poland.**

The aim of the EMD Conferences is to create a forum for presentations and discussions about sources of electromagnetic disturbances, their influence on electronic devices and systems, and protection against them.

Technical Areas of Conference:

- .. Sources of electromagnetic disturbances
- .. EMD emission and susceptibility
- .. Measurements and simulation of disturbances
- .. EMD in wire and radio communication
- .. EMD in power systems, power quality
- .. Disturbances in electronic equipment
- .. EMD in control and measurement systems
- .. High voltage equipment reliability at EMD
- .. Lightning and overvoltage protection
- .. EMD standards and testing
- .. Grounding and equipotential bonding
- .. Shielding techniques
- .. System design for EMD
- .. Practical problems of EMD protection
- .. EMD education
- .. Intended EMD

Website: <http://we.pb.edu.pl/emd2007>

Persons planning to attend the conference are asked to complete the registration form

(<http://we.pb.edu.pl/emd2007/reg.html>) and submit it to the Organizing Committee.

Contact person: Prof. Andrzej Sowa, <andrzej.sowa@ochrona.net.pl>

**3DEM-4: Fourth Quadrennial Symposium on Three-Dimensional
Electromagnetics, 'New Horizons'
Sep 27 - 30, 2007, Freiberg, Germany.**

Organised by the Gerald W. Hohmann Memorial Trust for Research and Teaching in Applied Geophysics and the TU Bergakademie Freiberg, Germany
Contributions are invited for poster and oral presentation in the areas of 3D EM modeling, inversion, and application relating to earth science. Equations are most welcome. We emphasize the character of a workshop. Therefore, we encourage presentations of work in progress. We intend to have open discussions after the talks. Poster sessions will be given a large room to underline their importance. Short oral poster introductions are possible.

Extended abstracts should be two to four pages in length including figures. Deadline for submission is May 31, 2007. The committee intends to publish an extended abstract book, which is handed out to the participants at arrival. Details will be provided in the 2nd circular in March 2007.

Participants of 3DEM-4 are encouraged to take part in the German Colloquium of Electromagnetic Depth Research organized by Dr. Josef Pek and co-workers, which will take place from Oct 1 - 5, 2007 in Decin/Czech Republic only 100 km away from Freiberg. Shuttle buses will be organized. There will be a web site for this soon.

In order to get a first overview of the number of expected participants, please send an e-mail with the subject line '3DEM-4' as soon as possible to klaus.spitzer@geophysik.tu-freiberg.de indicating

Current information on the technical program, travel and activities can be found at <http://www.geophysik.tu-freiberg.de/3dem4>

We realize this meeting comes closely after the SEG annual meeting in San Antonio, U.S.A. (Sep 23-27). Flights to Dresden (DRS) arrive ~24 hours after U.S. departure, in terms of local time. Thus, U.S. departure would be during the time for post-session workshops of the SEG (Sep 26-27), for those considering attendance at both meetings. For flights arriving DRS early Sep 28, it is possible that shuttles to the 3DEM-4 could be arranged. Please let the organizers know of interest in this.

Contact person: Prof. Dr. Klaus Spitzer
E-Mail: klaus.spitzer@geophysik.tu-freiberg.de
Internet: www.geophysik.tu-freiberg.de

**9th Workshop on Non-Linear Dynamics and Earthquake Prediction
1- 13 October 2007, Abdus Salam International Centre for Theoretical
Physics - Trieste, Italy**

ICTP Home Page: <http://www.ictp.it/>

Contact person: Ms. G. De Meo <smr1864@ictp.it>

**8th workshop on Alpine geological studies
October, 10-12, 2007, Davos, Switzerland**

The meeting focuses particularly on the alpine orogens (Alps, Carpathians, and Dinarides) but covers various aspects of mountain building in general. We plan to hold eight sessions with oral and poster presentations:

1. From subduction to collision (key-note speaker: Onno Oncken, Potsdam).
2. Present-day Alps: Neotectonics and big tunnels (Rainer Brandner, Innsbruck).
3. Speed of tectonic and metamorphic processes and the role of HP/UHP metamorphic rocks (Alfons Berger, Bern).
4. Orogenic curvature and kinematics of the Alps-Carpathians-Dinarides system (Liviu Matenco, Amsterdam).
5. Alpine oceans: Rifting, break-up, spreading (Thorsten Nagel, Bonn).
6. Coupling of climate, uplift, erosion, and topography (Sean Willett, Washington).

7. Foreland and internal basins: What controls their evolution?
(Francois Roure, Rueil-Malmaison).

8. Deep structure, lithospheric strength, and mantle dynamics (Edi Kissling, Zürich).

Also, there will be pre- and post-workshop field trips on October, 1st and October, 2nd (Totalp area and Tilisuna area respectively) and October, 6th to 7th (Lago-di-Como area). Please check our website <http://www.geologie.uni-bonn.de/Alpshop07/> for further information.

If you are interested in coming to Davos, please send an unbinding preliminary registration to alpshop07@uni-bonn.de. Please pass this information to any interested colleagues. Thank you.

Contact person: Niko Froitzheim <alpshop@uni-bonn.de>

International Conference, PV 2007

Ensuring Long-term Preservation and Value Adding to Scientific and Technical Data

October 9-11, 2007, DLR Oberpaffenhofen/Munich, Germany

After three very successful events, PV 2002 at CNES in Toulouse, France, PV 2004 at ESA/ESRIN in Frascati, Italy and PV 2005 at DCC in Edinburgh, UK, the conference series continues to address prospects in the domain of scientific and technical data preservation and value adding.

Website: www.pv2007.dlr.de

Contact person: Eberhard Mikusch, E-Mail: pv2007@dlr.de

3rd International conference on Science and Technology for Safe Development of Lifeline Systems - Natural risks: Progress on seismic and geotectonic modeling across CEI territory and implications on preventing and mitigating seismic risk

October 24-27, 2007, Bucharest, Romania

Contact person: Mircea Radulian <mircea@infp.ro>

The 8th Pacific Conference on Earthquake Engineering Dec 2007, Singapore.

Full details of the conference are to be found at the conference website <http://www.ntu.edu.sg/cee/8PCEE/>

8PCEE - IMPORTANT DATES

1 Feb 2007	: Deadline for abstract submission
25 Mar 2007	: Notification of acceptance for abstracts
Mid Jun 2007	: Deadline for paper submission
1 Oct 2007	: Notification of acceptance for papers