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A successful

IASPEI 2009 Scientific Assembly in Cape Town



Icebreaker at the Hotel Lagoon Beach

Speech delivered on behalf of Dr. Tom Beer, President of IUGG, by Harsh Gupta

Mr. Thabo Guzi, Prof. Zhongliang Wu, Prof. Peter Suhadolc, Dr. Thibedi Ramontja, participants of the Assembly and guests. 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, generally known as IUGG. I bring you Greetings from the IUGG President Dr. Tom Beer and his apologies that he could not be here in person. In the speech of Honorable Minister of Minerals and Energy, Minister Sonjica, read by Mr Thabo Guzi, the importance of the GA of IASPEI being held at Cape Town has been clearly spelled out.

IUGG deals with several globally important issues. IUGG Scientists working on Climate Change, Water Resources, and Energy under the Umbrella of Inter-governmental Panel on Climate Change, IPCC, made



Foreword

Our IASPEI 2009 Scientific Assembly in Cape Town was very successful, thanks to the fantastic venue and big efforts of the LOC.

You can find the introductory speech by the IUGG Vice President, Harsh Gupta, and a short report about the Assembly, in the first part of this Newsletter.

I am still sending out the Newsletter as an e-mail attachment, trying to have its size as small as possible.

You can always delete it and download the Newsletter 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.

Peter Suhadolc
Secretary General

us all proud when IPCC shared the 2007 Nobel Peace Prize with Al Gore.

Earthquakes are one of the worst natural hazards. In the past century, the 1976 Tangshan earthquake in China claimed 242,000 human lives. The 1995 Kobe earthquake, Japan, claimed 6000 human lives and is estimated to have inflicted economic losses exceeding 100 billion U.S. dollars. In the 21st Century, only 8 years have passed and we have had the second largest earthquake, ever recorded, on 26 Dec 2004 in Indonesia. The resultant tsunami claimed about 300,000 lives in south and southeast Asia. Then we had the Muzaffarabad earthquake claiming 77, 000 lives in 2005, and last year the 12 May Wenchuan earthquake in China claiming some 80,000 lives. The Japanese seismologists estimate, that if the Kanto earthquake of 1923 was to repeat today, the economic losses will exceed 1 Trillion U.S.\$.

India has succeeded in setting up an end-to-end early tsunami warning centre in the Indian Ocean. Early warning systems are also required for volcanic eruptions, earthquakes, floods, hurricanes, avalanches and landslides. The Scientific Associations of IUGG are working on these issues.

The ICSU Regional Office for Africa set up in 2005 has identified priority areas of work including a) Sustainable energy b) Climate change c) Health & human well being and d) Natural and Human Induced Hazards. South Africa bestowed a great honor on the scientific community when it agreed to host the ICSU Region office for Africa. South Africa has continued to honour the geophysical community by hosting this General Assembly of IASPEI. I would like to compliment all concerned for their vision and support. Under the continued guidance of office bearers of outstanding scientific talent, IASPEI has performed very well. We note that, with the passage of time, the human lives lost and economic losses due to earthquakes continue to increase. This needs to be overcome. It is sincerely hoped that through the deliberations and interactions over the next five days, our understanding of the earthquakes and the physics of the earth's interior would improve.

On behalf of IUGG and my personal behalf, I wish you all success.

Finally, on behalf of Dr. Tom Beer, the IUGG President who comes from Australia, I extend you all a very warm invitation to come to Melbourne for the IUGG General Assembly in 2011.

Thanks.

Short report on the 2009 IASPEI Scientific Assembly by Peter Suhadolc

The IASPEI Scientific Assembly was held in Cape Town, South Africa, 11-16 January 2009. The Assembly, held for the first time on the African continent, provided a very good platform for seismologists worldwide to meet and to discuss the latest developments in seismology and physics of the Earth's interior research. There were 347 participants from 60 countries registered for the Assembly. Eighty three of them were students, young researchers and researchers from less-developed countries who were partially sponsored.

Mr Thabo Guzi, gave the welcome address on behalf of Minister Sonjica. IUGG Vice-President, Dr Harsh Gupta, welcomed the participants of the Assembly, and opening remarks by the IASPEI President, Dr Wu Zhongliang, ended the formal part of the Opening ceremony. At the evening cocktail function, the MEC of community safety, Patrick McKenzie, gave his welcome speech, followed by the speech of Prof. Jay Barton, member of the CGS Board. A local Choir entertained the participants with Zulu songs and dances and a Marimba band played during the cocktail; a very enjoyable experience.

Three Keynote lectures were delivered at the Assembly: Tom Jordan talked on "Earthquake Forecasting and Prediction: Progress in Model Development and Evaluation"; Raoul Madariaga discussed "Earthquake Dynamics: from source to radiation"; and Guust Nolet presented "Seismic tomography and the dilemma of the Earth's heat budget".

The 32 symposia of the programme covered the spectrum of research related to IASPEI Commissions and current "hot" topics in seismology, in a total of 335 oral and 106 poster presentations. These included, a session on "Capacity building and capturing undergraduate students to Geophysics/Seismology", and two well-attended Panel discussions convened by R. Musson on: "Seismic Hazard: Living with Uncertainty" and "Earthquake Prediction: What the Future Holds". Several IASPEI commission and working group meetings were organized during the Assembly.

The Assembly was conducted at the Cape Town International Convention Centre, which proved to be a perfect environment for delegates. The Local Organizing Committee, with the determinant support of the South-African Council for Geoscience, did a great job ensuring a smooth management and enjoyable social moments. Participants will long remember the fabulous icebreaker at the splendid Lagoon Beach hotel with unrivalled views of Table Mountain, the post-

poster wine and brandy tasting excursions and the IASPEI dinner at Moyo-Spier with face-painting and great African food. Several pre- and post-conference fieldtrips were also organized.

A Summer school was organized in conjunction with the IASPEI Scientific Assembly and held during the week after the conference ended, attended by 27 fully sponsored, mostly African participants. Lecturers at the school were: Prof. Aldo Zollo on "Real-time processing and seismic alert with examples of their implementation", Prof. Yehuda Ben Zion on "Introduction to physics of earthquakes and faults", Dr. Martin Mai on "Source modeling for near-fault ground motion simulations", Dr. John Douglas on "Seismic hazard assessment and empirical ground-motion prediction", Dr. Artur Cichowicz on "Introduction to mining seismology", and Prof. Colin Reeves on "African Geodynamics".

The products of IASPEI Scientific Assembly in South Africa, including adopted resolutions, abstract volumes, keynote lectures, and useful meeting data will be soon available at <http://www.iaspei.org/>

Bids open for 2013 IASPEI Scientific Assembly

The bidding for the IASPEI 2013 Scientific Assembly is open and we invite all IASPEI National Correspondents and officers to send suggestions and expressions of interest to the IASPEI Secretary General. The last 3 meetings were held in Vietnam, Chile and South Africa. Is it time to have one again in Europe or North America? Maybe we could have a joint meeting with another IUGG Association?

Nomination Committee 2011 IASPEI General Assembly Melbourne

The IASPEI Executive Committee, upon recommendation of the IASPEI President, has approved the following names for the IASPEI Nominating Committee member list.

Bob Engdahl (Chairperson, USA)
Soren Gregerson (Denmark)
Kiyoshi Suyehiro (Japan)
Raoul Madariaga (France)
David Rhodes (New Zealand)
Gennady Sobolev (Russia)

Nominations must be sent directly to the e-mail address of the Chairperson: bob.engdahl@gmail.com

IUGG Yearbook for 2009

The 2009 Yearbook is now available at the IUGG website electronically in PDF format (<http://www.iugg.org/publications/yearbooks/yearbook2009.pdf>). The IUGG website maintains the directory of Union and Association officials and the archive of IUGG memberships and General Assemblies.

IASPEI Reference Event List

IASPEI Reference Event List is released on the ISC website. Go to www.isc.ac.uk and click on IASPEI GT. Users can search, download or submit GT events through the website.

Istvan Bondar

In Memoriam Carl Kisslinger (1926 –2008)



Carl Kisslinger, a geophysicist who furthered scientific and international understanding through his tireless devotion to his field, died on December 31, 2008, at his home in Boulder, Colorado, USA.

Kisslinger served on the University of Colorado (CU) at Boulder faculty since 1972. He arrived from Saint Louis University, where he chaired the Department of Earth and Atmospheric Sciences and where he had earned undergraduate and doctoral degrees. For seven years he served as Director of the Cooperative Institute for Research in Environmental Sciences (CIRES), a partnership between the University of Colorado and the National Oceanic and Atmospheric Administration (NOAA). According to the CIRES web site, "The casual, respectful, and mutually supportive atmosphere among the institute's scientists and staff was established by his example, as was its dedication to excellence in all endeavors." Esteemed by generations of undergraduate and graduate students and colleagues, he received the University Service Award from the CU Board of Regents in 1993. Among his many roles as a university citizen, he most recently served as President of the Retired Faculty Association.

His career grew out of a passion for understanding and explaining nature. A seismologist, Kisslinger focused much of his research on earthquake fault zone processes, earthquake aftershocks, remote triggering of earthquakes, earthquake hazard analysis, and earthquake prediction. Much of his observational work was based in the Aleutian Islands, where he worked in the 1970s on problems related to the monitoring of underground nuclear testing. Author, coauthor, and editor of countless articles and books, he was one of four international editors of the International Handbook of Earthquake and Engineering Seismology (published in 2002), an editor of the 26-page brochure entitled "The International Association of Seismology and Physics of the Earth's Interior: Cooperation for Better Understanding of the Earth", and the author of CIREs, 1967-2002, Pioneering a Successful Partnership.

Kisslinger left a profound impact on the professional organizations in his field. For the American Geophysical Union (AGU) he served as International Secretary (1974-1984), and as Secretary (1964-1968) and President (1970-1972) of the Seismology Section. For the International Union of Geodesy and Geophysics (IUGG) he served as a Bureau Member (1975-1979), Vice-President (1983-1991), and as Chair of the Colorado Host Committee for the 1995 IUGG General Assembly held at the University of Colorado. In 1974, as AGU International Secretary, he helped initiate one of the first American scientific exchange visits to the People's Republic of China, causing Smithsonian magazine to note in the Nixon-Kissinger era of détente that the visit was inspired by "an energetic young scientist named of all things, Kisslinger."

His international connections led to travel and friendships around the world and a spirit of adventure and cross-cultural understanding. In 1967 the Kisslinger family lived in Tokyo while he taught at a UNESCO institute for earthquake studies. Carl Kisslinger is survived by his wife, Penny, five children, and seven grandchildren.

E. R. Engdahl

Pierre BERNARD (1915-2009)



Pierre BERNARD, Director Emeritus of Research at the CNRS, has died in his ninety-fourth year of age.

Born during the first World War, Professor Bernard was left deaf by meningitis at the age seven. Though, he was able to transcend this infirmity, as testified by his professor of

physics at Lakanal Lycee in Sceaux who described his quality of thought that went far beyond that of his classmates. After receiving his *bacalaureat* at sixteen, he completed classes in advanced mathematics (*mathématiques spéciales*) before entering University, where he was initially tempted by Astronomy. He ultimately chose Geophysics and wrote his thesis under Professor Maurain, on the study of microseismic activity, defending it in 1940. In the course of his career, he was on three occasions named Academy of Sciences Lauréat: by the Girbal-Baral Foundation in 1940, with the *prix Frederic Forthuny* in 1949 and the *Prix Victor Noury* in 1954.

Professor Bernard's research, conducted at the observatories of Saint Maur, Chambon and Clermont Ferrand, led him to attribute the origin of microseisms to stationary waves created by interference in the vicinity of cyclones. His technical inventions registered at the Academy have permitted to improve recording devices for eliminating parasitic background noise.

Triangular observation points at Biarritz, La Corogne and Casablanca on granite terrain allowed setting up a method of measuring swell forecasts, though at the same time the development of satellite observation was improving depression forecasting. Professor Bernard continued his work on the systematic transmission of recordings from observatories at different points of the globe during his presidency, from 1966 to 1970, of the microseisms section of CNFGG. The second area of his research consisted in studying correlations between solar and cyclonic activity, highlighting a greater microseismic activity following the variation every eleven years of solar spots.

Meanwhile, in a more geographic field, Professor Bernard took an interest in the influence of human activity on the changing of coastal shapes and made recommendations for protective works, taking the west Cotentin as an example.

His many areas of interest reflected his humanism, and his great longevity was testimony to his remarkable vitality.

Noel Bernard

José Miguel FEBRER (1943-2008)



Dr. José Miguel Febrer's extraordinary attitude towards life has made an indelible impression on all who knew him. The world of science mourns his loss, both as an exceptional human being and as a great scientist with a selfless nature and a noble spirit and

whose commitment has encouraged the continuity of his work.

José's passionate and true life-long devotion to science never made him miss his goal: *to humanize the world*. Those who have intimately known him are witnesses to his infinite intellectual curiosity which made him explore the most diverse areas of science. An inexhaustible philosophy, history, anthropology and psychology scholar, a poetry, art and literary lover, a tireless seeker of knowledge, José delved into all imaginable sources to search for answers to the mystery of life. This quest, together with his scientific knowledge, gave him a unique, profound and sound view of life.

But beyond knowledge, ethics was his compass through life—a virtue gradually declining these days in the troubled world we are living in, and distinguished him from his colleagues whom he respected for their humanity and knowledge as well. That's why he always looked for collaboration selflessly sharing his knowledge and working experience. Respect was his very essence, shown by his permanent politeness and empathy to address people. His outstanding intellectual skills harmoniously matched with his affability and simplicity in imparting knowledge and voicing his view of life.

José Miguel Febrer received his Physics degree from the Universidad de Buenos Aires, and started his geophysics research studies immediately after his graduation. With respect to his specific contributions in this field, we would like to quote Eng. Enrique Borzotta's words: "Dr. José Miguel Febrer, together with other colleagues, especially Hugo Fournier, pioneered the magnetotelluric studies in Argentina in the 70s." In 1977, they published the first MT surveys in Pilar (province of Córdoba), Cañada de Gómez (province of Santa Fe) and Chamental (province of La Rioja), which turned out to be of utmost importance to subsequent studies. It is worth mentioning as well his invaluable time and effort devoted to other MT studies (a key role in the geothermal area of Taco Ralo, province of Tucumán). As a result of these works, he published a set of articles in collaboration—two of them with late Argentine geologist Bruno Baldis, where he describes the geothermal area using MT (known in 1982 as Calchaquí Geothermal Anomaly), as well as other deep structure aspects. Here he introduces the term "transduction" to characterize the specific aspects of the subduction structure in the area (1983, 1984).

Likewise, he started some MT research studies in Antarctica and in southern Chile, where he was part of an important research study in the active Villarrica volcano region.

During his late years, he made research studies at the Instituto Antártico Argentino, working in the seismological area at ASAIN (Antarctic Seismographic Argentinean—Italian Network) in collaboration with the

Italian Antarctic Program (PNRA), since the start of the project in 1992 when he participated to the installation of the first ASAIN seismographic station at Base Esperanza together with Italian researchers. He has then been the responsible for the Argentinean part of the planning of the development of the seismographic network for the rest of his life, also performing a considerable scientific work using the data collected by the ASAIN.

It is due to all of this and to his goodness as a man, a loving husband, companion, father and grandfather that his passing is a mystery to all of us and a very difficult one to understand. His departure makes our hearts bleed with no end.

Isabel Barros, Marino Russi and Nora Sabbione, edited by P. Suhadolc

Job Opportunities

Experienced researcher for project GLOBALSEIS

The ERC-funded project GLOBALSEIS (PI Guust Nolet) has the dual goals to open up the oceans for the observation of P wave arrival time using acoustic robots, and to combine finite-frequency body wave data with low-frequency seismic observations in a multiscale global tomographic interpretation. To help lead this project we seek an experienced seismologist or computational geophysicist.

Profile: For this leadership position we seek a researcher with a proven research record and postdoctoral experience in seismology, wavelet theory and/or high performance computing. Depending on his/her expertise and interests, the successful applicant will be in charge of one or more crucial aspects of the program and pursue an active research program in global seismic tomography.

He/she will be responsible for the migration of a database of finite-frequency observation from Princeton to Geosciences Azur, and the establishment of a computational center for global tomography on a new cluster. He replaces the PI when needed.

This is a temporary position that can be extended at least for the duration of the GLOBALSEIS project (5 years).

Requirements: A PhD, preferably with two years of postdoctoral or equivalent experience. Experience with software development on compute clusters is desirable. A reasonable understanding of French, both written and spoken.

Address of the laboratory: Géosciences Azur - 250 rue Albert Einstein, 06560 Sophia Antipolis, France.

Contact: Guust Nolet (nolet@geoazur.unice.fr)

Dublin Institute for Advanced Studies

The Geophysics Section of the School of Cosmic Physics, DIAS, has the following three Post-Doctoral Fellowships and one studentship available immediately. □Contact for all positions is Alan Jones (alan@cp.dias.ie).

SCP09-GEO-1: MT Post-Doctoral Fellowship on INDEPTH-IV project (2 years) (re-advertisement) □This Science Foundation Ireland funded post is to work on the INDEPTH-IV (InterNational DEep Profiling of Tibet and the Himalaya Phase IV) project investigating the northern boundary of the Tibetan Plateau. First phase of fieldwork will be this Summer, with the main phase taking place in 2010.

SCP09-GEO-2: Schrödinger Fellowship in MT (5 years) (re-advertisement) □A DIAS-funded Schrödinger Fellow is sought to work together with Alan Jones on magnetotelluric methods, from theory to processing to modelling to interpretation. She/he is also expected to develop an independent research programme funded nationally or internationally. This is a five-year post with a current starting salary of €52,804 rising to €58,906.

SCP09-GEO-3: MT Post-Doctoral Fellowship on TOPO-MED project (2 years) □**SCP09-GEO-4: MT PhD studentship on TOPO-MED project (4 years)** □These Irish Research Council for Science and Engineering Technology funded positions are to work within the TOPO-MED Coordinated Research Project in the TOPO-EUROPE EUROCORES. The fieldwork will be based in Morocco, and some fieldwork will commence in the Spring, 2009, with the main phase taking place in Autumn, 2009 and in 2010.

PDF applicants for posts SCP09-GEO-1 and SCP09-GEO-3 must have a strong geophysics doctorate in preferably magnetotellurics, with evidence of tectonics knowledge, preferably of the India-Asia orogen (for SCP09-GEO-1) and of the Western Mediterranean (for SCP09-GEO-3). Starting salary will be €42,064 (full PRSI), rising to €48,572 over the two years.

Studentship applicants for post SCP09-GEO-4 should have excellent grades (ECTS A or equivalent. Non-EU students may be asked to sit GRE proficiency examinations), preferably an advanced (M.Sc.) degree, with strong physics and computing skills, and be comfortable with geology and tectonics. DIAS students currently receive a non-taxable stipend of €17,500 per annum (with inflationary increases), plus university fees (students register at an Irish or approved international University), for four years, and the student will be enrolled in the Irish Geoscience Graduate Programme (IGGP) for access to extended learning through the provision of IGGP Short Courses and Workshops.

The fieldwork for all positions will be demanding, and a

valid driving licence, good physical fitness, robust health, and knowledge of first aid are all essential.

Start date for all positions is preferably as soon as possible, but a start date in the late-Summer is possible. Applications will be viewed from February 1st 2009 onwards, and the positions will remain open until filled.

Applicants should send an e-mail containing full and complete academic CVs, statements of research interests, English proficiency certification (if necessary), and the names of 3 academic referees to:

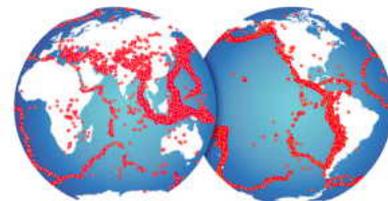
The Geophysics secretary
(geosecretary@cp.dias.ie), School
of Cosmic Physics,
Dublin Institute for Advanced
Studies, 5 Merrion Square, Dublin
2, Ireland

quoting the job reference number in the subject line.

Applications that are incomplete will be discarded without response. DIAS is an equal opportunity employer.

GEM

GEM: THE GLOBAL EARTHQUAKE MODEL



A PUBLIC-PRIVATE PARTNERSHIP

Secretary General

Global Earthquake Model (GEM) is a five-year, €35M public-private initiative with the goal of establishing global independent standards for calculating and communicating earthquake risk worldwide (www.globalquakemodel.org). With over half its funding secured, GEM will launch formally in February 2009 and seeks a senior leader for its executive team.

Position Description

The Secretary General is the senior executive of GEM and the leader of the management team. Responsibilities include strategic direction in cooperation with the Science Board, oversight for execution of technical and scientific activities, ongoing fundraising, and organizational fiscal accountability.

The Secretary General reports to the GEM Governing Board, which consists of representatives from each public and private sponsor.

Selection Criteria

The successful candidate will have a proven record of executive ability at a senior level in a technically-driven organization. The candidate must have the ability to think and act strategically to cultivate a broad foundation of external support, whilst empowering and building trust internally among a diverse scientific team. International travel is required. English language skills for business communications and negotiation must be impeccable, and fluency in additional languages is preferred.

Location Pavia, Italy (part or preferably full-time).

Target Start Date mid April, 2009.

Submit letter of interest, qualifications, business writing sample, and 5 references by **15th March 2009** to: Saverio Bisoni, European Centre for Training and Research in Earthquake Engineering (EUCENTRE), Via Ferrata, 1 - 27100 Pavia, Italy.

INTERNATIONAL SCIENTIFIC STUDIES PROJECT

To evaluate the capability and readiness of the Comprehensive Nuclear-Test-Ban Treaty's verification regime

Hofburg Imperial Palace, Vienna, Austria
10 to 12 June 2009

CALL FOR PAPERS

The International Scientific Studies Conference - ISS-2009 Conference - will evaluate the capability and readiness of the Comprehensive Nuclear-Test-Ban Treaty's (CTBT) verification regime to detect nuclear explosions worldwide. It will also address relevant scientific and technical developments since the Treaty opened for signature in 1996.

Participation

The Conference is open to diplomats, officials, scientists, representatives from non-governmental organizations and the media.

Scope and themes

The Conference is being organized by the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) and will consist of: **plenary sessions, keynote speaking sessions, panel discussion sessions, thematic presentation sessions, poster sessions and exhibitions.**

ISS-2009 will address all aspects of the Treaty's verification regime and its ability to detect and locate observed events,

including the International Monitoring System and the on-site inspection regime.

The following topic areas will be discussed:

1. Seismology
2. Hydroacoustics
3. Infrasound
4. Radionuclide
5. Atmospheric Transport Modelling
6. On-site inspections including geophysical exploration and radionuclide techniques
7. System Performance
8. Data mining and exploitation

Scientific Panel

The ISS Scientific Panel consists of Coordinators who are responsible for overseeing the work undertaken within the above topic areas. They will also review the scientific contributions submitted. The Coordinators for Seismology are: Prof. Wu Zhongliang and Prof. Barbara Romanowicz.

Programme summary

Day 1: Overview of scientific developments since 1996 and their implications for the CTBT's capability.

Day 2: In-depth discussions of contributed scientific studies.

Day 3: Looking ahead in connecting the CTBTO with Science. Discussions will focus on the themes of: how science can be applied to promote security, science and technology foresight, global capacity building, and scientific and civil applications of CTBT-related data and knowledge.

Language

The official language of the Conference is English.

Call for papers

Scientific contributions are invited on the topics areas listed above. The **focus will be on the capabilities of detection, localization and characterization of CTBT relevant events and on scientific developments that can help improve these capabilities.** Contributions reflecting more general developments relevant to test ban verification from the listed topic areas are also welcome. Contributions are accepted on: recently conducted studies, reviews of results obtained over the last ten years, and earlier published papers that show results important for assessing the capability of the verification regime and scientific developments.

Abstract format

Authors are invited to submit contributions as **one-page abstracts** and complete a registration form electronically, sending it to iss@ctbto.org. The Call for Papers, Instructions and Template for submission of an abstract, and registration forms can be downloaded from the CTBTO web site: www.ctbto.org

Schedule of the call for papers

- **31 March 2009: deadline for abstract submission**
- **30 April 2009: notification of acceptance**

Registration

Participants are encouraged to register by **15 May 2009**. **No registration fee is charged.** Limited funds are available on request to help meet the cost of attendance.

Accepted abstracts

Authors of accepted abstracts will be requested to make their full papers available at the Conference. The scientific papers will be published in scientific journals according to the praxis of the individual journals. Presentations made at the Conference will be summarized in a special publication that will also include a compilation of the one page abstracts in the form of an annex.

More information

Further information on the ISS-2009 Conference, including a preliminary agenda, hotel accommodation details and other administrative information, will be available at the CTBTO web site at: www.ctbto.org

ISS-2009 Conference Contacts: Provisional Technical Secretariat of the Preparatory Commission for the CTBTO

Address: P.O. Box 1200, 1400 Vienna, Austria

Telephone: +43 (1) 260306509

Telefax: +43 (1) 260305989

Conference webpage: www.ctbto.org

Contact address: iss@ctbto.org



The International Scientific Studies Project (ISS)

- Global undertaking open to scientific experts and institutions around the world, which was launched in March 2008.
- Involve a series of independent scientific studies and assessments to address the readiness and capability of the Comprehensive Nuclear-Test-Ban Treaty (CTBT) to detect nuclear explosions worldwide.
- Focus on the detection and location capabilities of the 337 facilities making up the CTBT's International Monitoring System (IMS).
- Address the ability of the IMS to characterize observed events.
- Evaluate for geological and radiometric techniques and methods used for in-situ inspection technologies.
- Emphasize the use of data, infrastructure and knowledge of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (PCBTB) to support of scientific, technological and other security-related applications.



INTERNATIONAL SCIENTIFIC STUDIES CONFERENCE HOFBURG IMPERIAL PALACE, VIENNA, AUSTRIA 10 TO 12 JUNE 2009

The results of the scientific studies carried out will be presented at the International Scientific Studies Conference – the ISS09 Conference – in Vienna, Austria.

The Conference will focus on issues related to the capability and readiness of the CTBT's verification regime to detect nuclear explosions worldwide. It will also address how the verification regime has benefited from scientific and technical developments since the Treaty opened for signature in 1996.

PARTICIPATION

Diplomats, officials, scientists, representatives from non-governmental organizations and the media are invited to attend the Conference.

If you are interested in contributing to any of the eight topic areas listed overleaf, please contact the project at iss@ctbto.org or visit the ISS webpage at www.ctbto.org.

[European Geosciences Union](#)

General Assembly 2009

19 – 24 April 2009, Vienna, Austria

Abstracts deadline: January 13, 2009

Website: <http://meetings.copernicus.org/egu2009/>

[Second International Seminar on Prediction of Earthquakes](#)

29-30 April, 2009, Lisbon, Portugal

Deadline Registration forms: Feb 28, 2009

Deadline Abstracts: April 10, 2009

Website: http://www.academia-engenharia.org/noticia_detail.asp?ID=13

Please send Participation Form (obtainable by e-mail request to the same address) by email to Academia de Engenharia (att. Teresa Fonseca)

E-mail: tafonseca@ordemdosengenharios.pt

Please send Abstracts/Papers by email (template obtainable by e-mail request to the same address) to either Prof. Luiz Mendes-Victor: lavictor@fc.ul.pt or Prof. Carlos Sousa Oliveira: csoliv@civil.ist.utl.pt

[The Meeting of the Americas](#)

2009 Joint Assembly

24–27 May 2009, Toronto, Ontario, Canada

Session Proposal Submissions Open

Deadline: 05 November 2008

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

[International Symposium on Earthquake Seismology and Earthquake Predictability](#)

May 2009, Beijing, China

Website: <http://www.cea-igp.ac.cn/>

[INTERNATIONAL SCIENTIFIC STUDIES PROJECT](#)

To evaluate the capability and readiness of the Comprehensive Nuclear-Test-Ban Treaty's verification regime, Hofburg Imperial Palace, Vienna, Austria

10 to 12 June 2009, Vienna, Austria

Conference webpage: www.ctbto.org

Contact address: iss@ctbto.org

[From Core to Crust: Towards an Integrated Vision of Earth's Interior](#)

July 20 – 24, 2009, Trieste, Italy

The Abdus Salam International Center for Theoretical Physics Organizer(s): Directors: K. Aoudia, S. Scandolo, J. Niemela

Application deadline: April 30, 2009

Contact E-mail: smr2048@ictp.it

[AOGS2009 – 6-th Annual General Meeting](#)

11-15 August 2009, SUNTEC Singapore

Abstract Submission - Opens 15 Jan 2009

Enquiries & Assistance - Please Email

info@asiaoceania.org

<http://www.asiaoceania.org/aogs2009/index.asp>

[Advanced Workshop on Evaluating, Monitoring and Communicating Volcanic and Seismic Hazards in East Africa](#)

August 17 - 28, 2009, Trieste, Italy.

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.

[2009 SSA Annual Meeting](#)

8-10 April 2009

Monterey, California, USA

Website:

<http://www.seismosoc.org/meetings/index.php#2009>

The Abdus Salam International Center for Theoretical Physics.

Organizer(s): Directors: K. Aoudia, E. Calais, C. Ebinger, T. Wright, G. Yirgu

Application deadline: April 30, 2009

Contact E-mail: smr2053@ictp Web-Page:

<http://www.ictp.it>

1st International Workshop on

"Validation of Earthquake precursors by Satellite and Terrestrial Observations (VESTO)"

March 26-28, 2009, Chiba, Japan.

The aim of this workshop is to provide a forum for discussion and exchange of experience in the science and cross validation of earthquake precursors. The unique key points of this meeting are (1) to cross-examine the results of precursory detection for several major earthquakes by applying different methodologies for analysis of ground-based and satellite data, and (2) to identify the common methodology for statistical validation of the major earthquake precursory phenomena.

The Workshop science committee has proposed four major earthquakes for common validation. We suggest to all authors to apply their innovative approach and methods and analyze EM signals before, during and after the event for the following major earthquakes:

- (1) Sumatra (Indonesia) 2004.12.26 M9.2;
- (2) Ping Tong (Taiwan) 2006.12.26 M7.0×2
- (3) Chuetsu Oki (Japan) 2007.7.16 M6.8;
- (4) Wenchuan (China) 2008.5.12 M7.9

Detailed information will be available at:

<http://www-es.s.chiba-u.ac.jp/geoph/ulf/vesto/>

The deadline for submitting abstracts to the meeting is March 1, 2009.

Contact person: Dr. Katsumi Hattori

email: hattori@earth.s.chiba-u.ac.jp

email: khattori@faculty.chiba-u.jp

The 5th International Symposium on Tibetan Plateau / The 24th Himalaya-Karakorum-Tibet Workshop

11 – 14 August, 2009, Beijing, China

Website: http://www.itpcas.ac.cn/5istp_24hkt

Contact persons: Prof. Zhu, Liping

<lpzhu@itpcas.ac.cn>, Prof. Fang, Xiaomin

<fangxm@itpcas.ac.cn>

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 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 [\[IAVCEI\]](#)

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

General and 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

Dipartimento di Scienze della Terra

Universita' di Trieste

Via E. Weiss, 1

I-34127 Trieste, ITALY

E-mail: suhadolc@units.it