March 2015

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Dear readers,

The IUGG 2015 General Assembly in Prague, Czech Republic, is approaching rapidly. The Scientific

Programme Committee met last month in Prague to discuss the scheduling of the sessions. The tentative schedule is reported at the end of this Newsletter.

The slate of candidates for IASPEI officers for the administrative period 2015 – 2019 has been disclosed.

We report about two workshops that might be of interest to some of you and a call for a new GEM Secretary-General.

With great sorrow I also have to report about the recent demise of three more seismologists, we remember them in the Obituaries section.

Please keep on supporting all IASPEI activities and come to Prague in June!

Peter Suhadolc Secretary General





Prague, Czech Republic June 22-July 2, 2015

Earth and Environmental Sciences for Future Generations

The **26th IUGG General Assembly 2015** will be held in <u>Prague Congress Centre</u> from June 22 to July 2, 2015.

The website of the IUGG 2015 General Assembly in Prague (Czech republic) is:

www.iugg2015prague.com

The Scientific Programme Committee met last month in Prague to discuss the scheduling of the sessions.

The tentative (small changes in the order of IASPEI Symposia are still possible) time schedule of IASPEI-related symposia can be found at the end of this Newsletter.

NOMINATIONS FOR THE IASPEI EXECUTIVE COMMITTEE 2015-2019

The Nominating Committee appointed Gothenburg in 2013 has already finished its task. Since the nominations are available rather soon this time, and following a request by IUGG, we are publishing well in advance of the IASPEI First Plenary meeting, the recommendations of the Nominating Committee. The rules for voting on the IASPEI Executive Committee are in the IASPEI Statues and By-laws. For the convenience of National Correspondents, who will vote during the Closing Plenary, scheduled IASPEI Wednesday, July 1, 2015, the rules are reported at the end of this section. As you will read under point 3, "additional nominations for each office may be made from the floor" before the election.

The slate of candidates proposed by the Nominating Committee is:

President: Thorne Lay (USA)

1st Vice-President: Kenji Satake (Japan)

2nd Vice-President: Michelle Grobbelaar (S. Africa) Secretary General: Johannes Schweitzer (Norway) EC Member: Marcelo Assumpçao (Brasil)

EC Member: Li Li (China)

EC Member: Russ Pysklywec (Canada)
EC Member: Dmitry Storchak (UK)

Past-President: Domenico Giardini (Switzerland)

The Nominating Committee members are:

Gary Gibson (Australia)
Remy Bossu (France)
Carlos Alberto Vargas Jimenez (Colombia)
Kojiro Irikura (Japan)
Kevin Furlong (USA)
Wu Zhongliang, Past-President, Chairman (China)

Past-presidents Brian L. N. Kennett and Eric R. Engdahl have been also consulted.

IASPEI By-Laws

Adopted by the General Assembly of the Association, Grenoble, 1975 and amended by the General Assembly, London, Canada, 1981, and by the General Assembly, Melbourne, 2011.

XIII. Nominations

- 1. At least two years before an election, the President shall appoint a Nominating Committee whose charge is to bring before the Plenary Meeting of the Association at the quadrennial General Assembly a slate of candidates for election to the Association Offices and the Executive Committee. The candidates for election shall be announced at *least 4 days in advance of the Plenary Meeting*.
- 2. The Nominating Committee should keep in mind the need for persons of executive ability, comprehensive scientific interests, and broad geographical representation and should consult, where possible, with former Presidents of the Association.
- 3. At the Plenary Meeting, additional nominations for each office may be made from the floor.
- 4. If no-one objects, the election may be conducted by acclamation. Otherwise, the election should be by written ballot, one ballot passed out to the principal delegate of each member country or to an official proxy.

EARTHQUAKES AND VOLCANOES

IASPEI-IAVCEI Workshop

Barcelona, November 3-5, 2015

A joint workshop between IASPEI and IAVCEI is being organized to discuss about potential relationships between volcanoes and earthquakes.

Those who have an interest in participating to this workshop, please send an e-mail to the IASPEI Secretary-General. The participation is limited in number.

2015 ECGS Workshop on Earthquake and Induced Multi-hazard Early Warning and Rapid Response Luxembourg 18-20 November 2015

In recent years, in various regions severely threatened by the potential of major earthquakes around the world, significant advances have been made in the development of earthquake early warning systems. In simple terms, these systems take advantage of the fact that information about the onset of a potentially damaging earthquake or shaking registered at some seismic stations can be transmitted much faster via modern communication tools than the speed of seismic waves. Taking advantage of this fact provides the opportunity to issue warnings, including the expected level of ground shaking, on the order of few to tens of seconds before the damaging waves reach the target of interest to be protected. While some of these systems are at a very mature state, in particular in regions where excellent infrastructure is available and significant funds could be invested (e.g., California, Japan), this is not the case in many developing countries, where large-scale seismic networks cannot be funded and the principles used in such elaborate systems are not that simply transportable to these situations. For this reason, significant research efforts are still underway nowadays in order to be able to extract the maximum degree of information from a minimum of required recordings. At the same time, it is important to take into account the requirements of the potential end users of the system while looking for optimal algorithms and system parameters, as well as dealing with potential additional earthquakeinduced hazards apart from the ground shaking, such as earthquake-triggered landslides, tsunamis or the potential interaction with a volcanic system. if present in the area.

With the ECGS workshop 2015, we wish to provide a platform for exchange of ideas between the various communities involved in early warning research for earthquake hazards. Strong emphasis will be put on the following issues:

 Recent advances in on-site earthquake early warning algorithms, and their contribution to the reduction of the blind zone in network-based systems;

- Optimal integration of network-based and on-site procedures;
- Multi-hazard methodologies for earthquakeinduced effects (e.g., landslides, tsunamis, volcanic eruption potential); Engineering applications of earthquake and induced multi-hazard mitigation, and input requirements from an early warning system to these applications;
- Real-time risk and loss assessment;

Holding an ECGS workshop dedicated to these issues in 2015 will allow, gathering around one table, scientists and engineers from Europe and around the world, including both researchers and engineering practitioners, to discuss and look for solutions to the problems still encountered. This workshop could thus contribute to improve the mutual understanding of the requirements and specifications that the different communities are subject to, consolidate conflicting views and foster the collaboration at the interface of fundamental research and engineering implementation.

Dr. Adrien Oth European Center for Geodynamics and Seismology

E-mail: adrien.oth@ecgs.lu



Global Earthquake Model (GEM) Call for Applications Secretary General

The GEM Foundation is inviting applications for position of Secretary General. organisational leader and chief executive. After successfully launching the OpenQuake platform in January 2015 and leading the organisation into GEM's Working Programme 2 (2014-2018) for two vears, the current Secretary-General will retire by 31.12.2015. The role of Secretary General has a predominantly external focus, responsibility to grow the organisation's leadership in collaborative assessment and reduction of earthquake risk. The successful candidate will demonstrate an extensive track-record of success leading organisations or international initiatives in the domain of science policy or risk reduction.

Responsibilities include strategy development and implementation, coordination of operational management, increasing the engagement of a wide range of public and private partners and the contribution of a wide international community as well as development of institutional-level partnerships.

The ideal candidate will have a PhD (or equivalent) in geophysics, engineering, political science, economics, or a related field, and a minimum of fifteen years' experience in organisational leadership with increasing levels of authority.

The position is full-time and based in Pavia, Italy. Deadline for applications is **April 15**th **2015**. Further details and application instructions can be found here:

http://www.globalquakemodel.org/media/cms_page_media/123/sg-call-2015-1-mail.pdf

OBITUARIES



BETIM MUÇO (1947 — 2015)

Dr. Betim Muço, an internationally acclaimed seismologist, writer and translator passed away

unexpectedly in Rockville, Maryland on January 15, 2015, at the age of 68.

Dr. Muco was born in Tirana, the capital of Albania, on January 21, 1947. He graduated in nuclear physics from the University of Tirana in 1970, specializing in seismology. He held a PhD in Earth Sciences. Dr. Muço's scientific career spans more than four decades. He contributed enormously to the practice and development of seismology in Albania and the Balkans through his work at the Albanian Seismological Institute (1974 - 2001). He was head of the institution from 1993 to 1997. As director of the Seismological Network of Albania, he led several international and regional projects and published a wide array of scientific articles and books. From 1998 to 2005, Dr. Muco co-led two NATO Science for Peace projects on seismology. In 2001, Dr. Muço moved to the United States with his family. He received U.S. citizenship as an "Exceptional Ability Individual in the Sciences and Arts, who would substantially benefit prospectively the national economy, cultural or educational interests, or welfare of the United States."

During the last fifteen years, Dr. Muço lived and worked with his family in Rockville, Maryland, where he continued his scientific work. He was Science Editor and Translator at General Dynamics Information Technology and consultant for Incorporated Research the Institutions for Seismology (IRIS) in Washington D.C. He presented scientific papers in many conferences in the U.S. and Europe. His most recent contribution is a series of papers on the correlation between rain and earthquakes in the state of Virginia, which were well received by the scientific community.

Dr. Muço's life passion was literature. He was an acclaimed writer and poet. His first poems were published when he was in high school in 1967 in Albania. He also wrote the lyrics of many songs, popular to this day. He went on to write and publish more than 25 books of poetry, short stories, novels and essays. He also wrote children's books, including three collections of fairy tales, dedicated to each of his three children. Dr. Muço has won several literary awards in Albania and overseas. Many of his poems and short stories have been translated and published in literary anthologies, journals and magazines in English, Russian, French, Dutch, Romanian and Turkish.

Dr. Muço was also a distinguished translator bringing into Albanian works of Graham Greene, Saul Bellow, Yukio Mishima, Reiner Maria Rilke, James Joyce, Vladimir Nabokov, and Alice Munro. In 2008, he selected and translated into Albanian an "Anthology of World Poetry of the 20th Century" which included translations of selected works by 135 world poets – making it one of the most comprehensive collections of poetry ever published in Albanian. On the evening before he passed away, he was putting the finishing touches to his latest novel, "The Stars Are Quite Close," to be published post-mortem.

Dr. Muço was honorary consul of Japan in Albania in the 1990s. During a post-doctorate program at the University of Tokyo (1990-1991), he developed very close ties with Japan, its culture and especially its community of seismologists. Upon his return, he published a book of haiku (the first ever in Albanian) as well as a collection of essays on Japanese customs and culture.

Betim Muço is survived by his beloved wife Martha, two daughters Sagita and Fedora, his son Zinart and daughter-in-law Alsa. He also leaves behind his loving sisters Tefta, Jeta and Donika.

Downloaded from a link contributed by Marta Muco, Betim's wife



PETER BORMANN (1939 — 2015)

On 11 February 2015, Prof. Dr. Peter Bormann passed away at the age of 75 after a period of

serious illness. We have lost not only a precious colleague and friend but also an outstanding geoscientist. With all his strength and personality, had dedicated his professional life to significant research seismoloav. has made contributions in this field, rendered excellent services to the international bodies and the scientific community and has trained young seismologists from all over the world. We know Peter as someone who always walked through life with keen eyes and made interesting discoveries in many areas of life. Far beyond seismology, he also took an interest in other fields of science, in literature, art, photography and last not least in people.

After his studies geophysics in in Freiberg/Saxony, Peter Bormann, worked as a seismologist at the Institute for Geodynamics in Jena and the related Seismological Observatory Moxa near Jena, both of which became part of the Central Institute of Physics of the Earth (CIPE) of the Academy of Sciences of the German Democratic Republic (GDR) in 1968. In the beginning of the seventies Peter moved to CIPE's headquarter in Potsdam, where he became chief of the earthquake research department. Since 1981. conducted CIPE's international UNESCO-Training-Courses on Seismology and Hazard Assessment. After two years of interim work at the United Nations in New York (1975 -1977), fostering the use of Remote Sensing in developing countries, he came back to Potsdam and took the position of the deputy director of CIPE in 1978, which he held until 1985. Between 1979 and 1987 Peter Bormann coordinated the Antarctic Programme of the GDR with the scientific planning of the GDR Antarctic station Georg Forster falling under his duties. He also was the official delegate of the GDR to the Scientific Committee for Antarctic Research (SCAR) of the International Council for Science (ICSU) between 1981 and 1986.

After the reunification of Germany, Peter since 1992 worked at GFZ German Research Centre for Geosciences where he received further worldwide recognition, in particular through the organization and execution of the GFZ International Training Courses on Seismology and Seismic Hazard Assessment – these courses being still continued today. Peter Bormann has not only brought his profound knowledge of seismology into these courses but also his fascinating dedication to the scientific matter. His unique ability to impart knowledge has been invaluable and a great support for education and professional career development of generations of seismologists,

particularly in developing areas. In 1997 he became chairman of the Sub-Commission on Training of the International Association of Seismology and Physics of the Earth Interior (IASPEI) and member of IASPEI's Commission on Education and Outreach.

Since the beginning of his GFZ time, Peter Bormann also took the position of the Secretary of the Commission of Seismic Observation and Interpretation of IASPEI. Under his leadership the "New Manual of Observatory Practice (NMSOP)", textbook for seismological observatories worldwide, came into being. It was translated completely into Chinese and partly into several other languages such as Bahsa Indonesia, Russian and Turkish. Already seriously sick, Peter spent most of his time during the last years with editing, rewriting and producing a second, totally revised and enlarged edition of the Manual. It is worth mentioning that without his constant perseverance neither of these editions would ever have become reality. The Manual holds internationally as one of the most important books for the education of seismologists.

In addition, Peter Bormann has a considerably large number of publications in international scientific journals. He became known worldwide for his work on the determination of earthquake magnitudes. Many colleagues will not forget his enthusiasm, unwavering attention to detail and his lively spirit during discussions about different magnitude scales and measuring practices. As chairman of the IASPEI Working Group on Magnitude Measurements he played a key role in developing new measuring routines, which later were adopted by IASPEI as a new standard. Also as professor emeritus, he still made essential contributions in this field, for example to the fast and precise determination of the magnitudes of strong earthquakes. His procedure constitutes a breakthrough in Tsunami Early Warning.

"I am retired, but definitely not tired". We often heard him saying this when colleagues expressed their admiration for the amount of scientific work he was still carrying out after retirement. We will cherish fond memories of our colleague Peter Bormann and his scientific legacy.

Jochen Zschau, Birger Lühr, Claus Milkereit, Johannes Schweitzer, Torsten Dahm, Albrecht Schulze, Rainer Kind



GEORGIOS STAVRAKAKIS (1954 — 2015)

On February 27, 2015, George Stavrakakis, a close friend and a great colleague passed away, after losing a short but difficult battle with lung cancer. He was a consummate seismologist, who served science and earthquake research in Greece, united seismic networks and placed the bar high for earthquake science for the future. He also will be remembered as the Director of the Institute of Geodynamics of the National Observatory of Athens.

George Stavrakakis was born in the village Christos of Ierapetra, Crete on October 13, 1954. He studied Physics at the University of Athens (NKUA 1978). He completed his postgraduate studies with diplomas in Münster, Germany (Westfälische Wilhelms Universität 1981), Japan (IISEE 1985) and a PhD at the University of Athens (NKUA 1985).

George worked at the Organization Earthquake Planning and Protection in Athens (1986-1987). In 1988, he was elected Assistant Researcher at the Institute of Geodynamics, National Observatory of Athens. In 1993, he was elected Senior Researcher, and, in April 1995, he was elected Director of the Institute. He served consecutive terms as Director. September 2008. In May 2009, he was elected Member of the European Parliament under the Panhellenic Socialist Movement (PASOK) of Greece and served as Member of the Group of the Progressive Alliance of Socialists and Democrats European Parliament in the

(14/07/2009 – 30/06/2014). He was an extremely active MEP (ranked seventh in his term of service) serving two very important posts: Vice Chair of the Committee on Regional Development and Member of the Committee on Budgetary Control. With the first post he travelled the Regional Periphery of Europe and promoted solutions to deprived parts of Europe for development and innovation. After 2013, he was also very active in the Special Committee on the policy challenges and budgetary resources for a sustainable European Union.

George led numerous research projects in Europe and Greece and he served in several Committees for Earthquake Hazard Assessment and Risk Evaluation. He was an important advisor to the Greek State and the public. He was always considered the "voice of logic" during earthquake crises for the Greek public, and he was available 24/7, even as Director at the Institute of Geodynamics.

George will be remembered for his gentleness, patience, hard work, and serenity at the times of severe catastrophic earthquake events in Greece. His calmness and common sense were also invaluable at times of felt earthquakes with ongoing seismic activity and with many local residents in panic, and widely circulating rumors of catastrophes. He managed to bring all Greek seismologists on the same table of discussions and coordinated the first National Hellenic Unified Seismic Network. This was an achievement that only he could make happen, exactly because he was non-confrontational and logical. He was liked by the Greek public and the media for his calmness and politeness to inform with seriousness and scientific wisdom in times of earthquake crisis.

He had always given others the benefit of the doubt, even in times when the scientific community could not agree on issues related to evaluate ongoing earthquake crises, but he was respected and could bring everyone to agree to discuss. Yet, he was vigilant in protecting the Institute and the public from those who made provocative statements for personal promotion.

George will be greatly missed, particularly, since after the completion of his political carrier as MEP he had returned to seismology again and was seen as the catalyst for bringing scientists together in difficult times.

We lost a friend and a great colleague in research and public safety. He will remain an inspiration for his dedication to in both Seismology and the European Regional Development issues.

George was a good man, in the classic sense of the word, a loving husband and family man. His wife Mary, and their two sons, Nikos and Christos will miss him and we feel for them and this huge loss. It is honor to have had him a true friend and worked with him.

Nicos Melis Director of Research Institute of Geodynamics National Observatory of Athens

Meetings Calendar

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

http://www.iaspei.org/meetings/forthcoming.ht ml

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

2015

Seismological Society of America (SSA) Annual Meeting

21 – 23 April 2015, Pasadena, California URL: http://www.seismosoc.org/meetings

"Passive Imaging and monitoring in wave physics: from seismology to ultrasound" workshop

May 11-15, 2015, Cargese (Corsica), France. URL:

http://isterre.fr/recherche/equipes/ondes-etstructures/passive-imaging-and-monitoring

7th International Conference of Seismology and Earthquake Engineering - SEE7

May 18-21, 2015, Tehran, Iran URL: http://www.see7.org

2nd International Workshop on Earthquake **Preparation Process:**

Observation, Validation, Modeling, Forecasting (IWEP2 2015)

May 29-30, 2015, Chiba University, Chiba, Japan

URL: http://www.eqpsj.jp/file/IWEP2-2015.pdf

Workshop meeting "Active and Passive Seismics in Laterally Inhomogeneous Media"

June 8-12, 2015, Loučeň Castle, Czech Rep.

URL: http://sw3d.cz/apslim/

Science and Technology 2015 Conference (SnT2015)

22 to 26 June 2015, Hofburg Palace, Vienna, Austria

Contact: SnT@ctbto.org

URL: http://www.ctbto.org/specials/snt2015/

International Union of Geodesy and Geophysics (IUGG), General Assembly

22 June-2 July, 2015, Prague, Czech Republic

URL: http://www.iugg2015prague.com

IASPEI-IAVCEI Workshop on **EARTHQUAKES AND VOLCANOES**

November 3-5, 2015, Barcellona, Spain

URL:

6th International Conference on **Earthquake Geotechnical Engineering** (6ICEGE)

2-4 November 2015, Christchurch, New Zealand

URL: www.6icege.com

2015 ECGS Workshop on Earthquake and Induced Multi-hazard early warning and rapid response

18-20 November 2015, Luxembourg URL: http://www.ecgs.lu/eewrr2015/

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.

Prof Peter Suhadolc

Dipartimento di Matematica e Geoscienze Universita' di Trieste Via E. Weiss, 4 I-34128 Trieste, ITALY E-mail: suhadolc@units.it

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			PM2						S04-4/5	S06c/2	S06,a,b/2	
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			PM2							S08b,c/3	S08,a/4	
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			PM2					S02-4/4	S05-4/5	S09-2/2	S10b/2	
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			PM2				S01c/3	S01d/2	S01.f/2	S01.f/5	S01e/1	

IASPEI RELATED BUSINESS MEETINGS IN PRAGUE 2015

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Club D				
Club D	SEDI	4		
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South Hall 1 3 300 3-4:30 pm 3-4:30 pm 4-30			IASPEI FDSN 2_General Meeting (3-6 p.m.)	
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Meeting Room 3.2 3 45 3-4:30 pm IASPEI ISC Gov. Council (12-3 pm) IASPEI ISC Gov. Council (12-3 pm) IASPEI FDSN Tect&Str. (12-3 pm) IASPEI FDSN 1_General Meeting (3-6 pm) IASPEI FDSN 1_General Meeting (3-6 pm) IASPEI Commissi Source Room 225 2 40 8-3 pm IASPEI ISC Exec IASPEI Bureau IASPEI Bureau IASPEI EC		IASPEI FDSN WG4		
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Room 225 2 40 8-3 pm IASPEI ISC Exec	ORFEUS Board of Directors	ORFEUS Exec. Comm.		
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4:30-6 pm IASPEI EC				22
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SEE YOU ALL THERE!