



# THE NEWSLETTER OF THE EUROPEAN ASSOCIATION FOR EARTHQUAKE ENGINEERING

January 2010

Volume 28, Number 1

## FROM THE SECRETARY GENERAL

*Dear Colleagues,*

*We are approaching to the end of another 4 year term; it will be approximately 4 years when we meet again for the Fourteenth European Conference on Earthquake Engineering in Ohrid. EAGE was founded after the 1963 Skopje Earthquake by Professors N.N.Ambraseys, S.Bubnov and S.V.Medvedev. It will be approximately 46 years since the first EAGE Conference named as "International Seminar on Earthquake Engineering" was organised in Skopje during September 29-October 3, 1964. After 46 years the conference is returning where it started.*

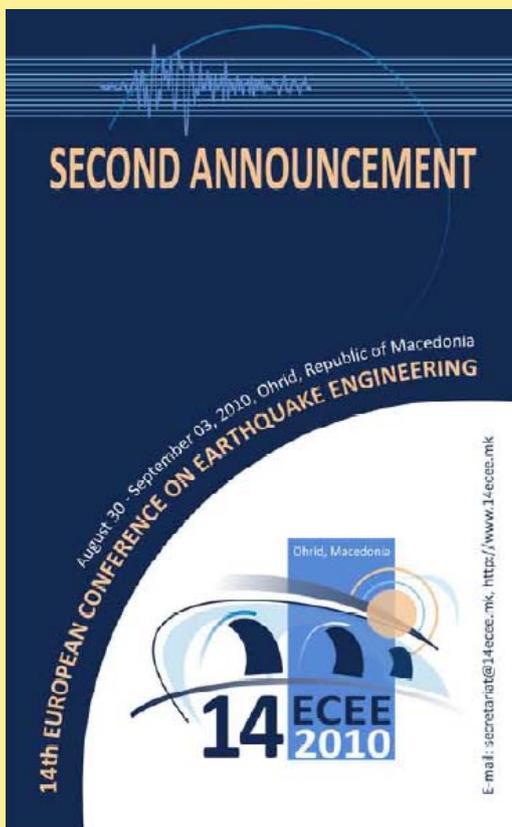
*We believe that the 14<sup>th</sup> Conference will be another outstanding event in the EAGE history. Based on approximately 1750 abstracts received, it appears probable that we will have the highest number of participants among the previous EAGE conferences. We are all looking forward to meet again in Ohrid during August 30- September 3, 2010. The 14ECEEE will also be the first conference where the Prof. Nicholas Ambraseys Distinguished Lecture will be presented for the first time by the distinguished Professor Theodossios Tassios from the Technical University of Athens, Greece.*

*The last four years has been active and fruitful for EAGE. We were fortunate to take part in many conferences, seminars and workshops to inform the participants about EAGE activities. Our Individual Membership has increased to 152 by the end of 2009.*

*We made some changes in our Statutes, and postal balloting is being conducted for the approval. You can find more information about these changes in the Minutes of the Executive Committee meeting held during 2009.*

*The last EAGE Regional Earthquake Engineering Seminar was held in Sion, Switzerland, in 2001. Turkish National Committee on Earthquake Engineering recently restructured as Turkish Earthquake Foundation Earthquake Engineering Committee decided to organize the 21 EAGE Regional Earthquake Engineering Seminar during 15-18 June, 2010 on Seismic Assessment and Retrofit of Bridges. More information about the 21st Regional Seminar is given in the following pages. We hope we will be able to host a very distinguished set of lecturers mostly from Europe and interested young researchers from member countries.*

*Atila Ansal  
February 2010*



*We cordially invite all interested scientists and engineers to be an Individual Member of EAGE. It is 30 Euros per year with electronic yearly subscription to Bulletin of Earthquake Engineering published by Springer. All the necessary information is in the EAGE web pages (<http://www.eage.org>)*

## MINUTES OF THE EXECUTIVE COMMITTEE MEETING

NUMBER: 4

DATE: JUNE 21, 2009

PLACE: ISTANBUL, TURKEY

### Attendance:

Martin Koller, President  
Robin Spence, Vice President  
Mihail Garevski, Vice President  
Atilla Ansal, Secretary General  
Carlos S Oliveira  
Dario Slejko, ESC Representative

### Absentee:

Mauro Dolce  
Jacob Eisenberg  
Peter Fajfar  
Rainer Flesch  
Andreas J Kappos

*Prologue:* The fourth meeting of the Executive Committee of the European Association for Earthquake Engineering for 2006-2010 Period was held in Istanbul, Turkey on Sunday, June 21, 2009 between 10:00 and 17:00 hours prior to the *First International Conference on Earthquakes & Tsunamis*. The EAEE Executive Committee meeting was chaired by the President.

**Item 1 Approval of the Agenda:** The proposed Agenda was approved and the minutes of the Third Executive Committee Meeting were signed by all the Executive Committee Members present.

**Item 2 Introduction by the President:** The President welcomed the members to the Fourth Executive Committee Meeting. He summarised his suggestions concerning the organisation of the joint sessions between EAEE and ESC related to engineering seismology in the forthcoming 2010 conference. He emphasised that the decisions reached during the EAEE-ESC Joint Executive Committee Meeting held in Crete in 2008 need to be implemented.

**Item 3 Developments concerning ECEE 2010:** The Vice President, Mihail Garevski presented a summary report concerning 2010 conference arrangements. He mentioned that the second announcement and conference web site had been designed containing the same information with similar format.

The Vice President explained the reasons for changing the conference venue from Skopje to Ohrid. The main reason was that Ohrid is much nicer and cheaper city with better hotels. He said that approximately 700 participants are expected to attend the conference and the transportation from Skopje Airport to Ohrid (200 km) will be arranged by the Local Organizing Committee for all participants at no additional cost. The Local Organizing Committee will take the responsibility of transferring conference participants by shuttle buses not only from and to the airport but also between the conference venue and the hotels and for the Gala Dinner between the hotels and the dinner venue. The Vice President also informed the Executive Committee about the Conference Venue. Conference Venue has nine rooms; among these, two can accommodate up to 300-400 participants and the others are for 80-100 participants.

Abstract and paper submission dates for the conference were discussed and it was decided to keep them as specified in the First Announcement taking into consideration the suggestions of Robin Spence who stressed the importance of early notification for people to find funding based on the acceptance of their abstracts.

The conference main topics and subtopics suggested by the Local Organising Committee were reviewed and discussed. Six main topics were determined as; Engineering Seismology, Geotechnical Earthquake Engineering, Seismic Performance of Buildings, Earthquake Resistant Engineering Structures, New Techniques and Technologies, and Managing Risk in Seismic Regions. Topics T1 and T6 will be organized and chaired as joint sessions between EAEE and ESC. The Vice President also mentioned that the topics of the conference sessions would be specified in accordance with the main and subtopics topics specified in the Second Announcement.

The Keynote Speakers proposed by the Local Organizing Committee were approved. It was recommended that the Theme Lecturers should also be determined in the near future. Dario Slejko indicated the importance of the poster sessions and suggested that additional efforts will be needed for increasing the attendance to poster sessions.

The Conference Committees were reviewed. It was suggested not to assign the same people to different Committees and to name EAEE Executive Committee as the International Organizing Committee. It was also proposed to select the Scientific Committee members from National Delegates.

The common block of EAEE-ESC joint sessions on engineering seismology during the 14th ECCE was discussed in detail. ESC Representative, Dario Slejko gave brief information concerning the ESC General Assembly to be organized just after ECEE on September 6-10 in Montpellier, France. He presented the draft copy of the first announcement. He also informed the Executive Committee, that as ESC, they had agreed on some issues concerning EAEE-ESC joint sessions. He pointed out that since two conferences are very close to each other a reduced price should be determined for seismologists who will be attending only last 2-3 days of ECEE.

The President, Martin Koller emphasised the importance of cooperation with seismologists for the organisation of the joint sessions. It was decided to have convenors from both associations to coordinate these sessions. Martin Koller also reminded that in ECEE paper

submission is necessary to be a speaker, which is not the case for the ESC General Assembly, so the seismologists should be aware that papers are expected also for these joint sessions. Secretary General suggested appointing two chairpersons, one from EAEE and one from ESC for the joint sessions. ESC Representative, Dario Slejko proposed to have the session titles same as topic titles and he proposed to have sessions on the topics of joint EAEE-ESC working groups.

The decisions reached during the Executive Committee Meeting for the joint engineering seismology sessions in 14th ECEE can be summarised as:

- The common block of joint engineering seismology sessions should be scheduled during the last three days of the Conference.
- Topics T1, *Engineering Seismology* and T6, *Managing Risk in Seismic Regions* will be organized and chaired as EAEE and ESC joint sessions.
- The sub-topics of the joint sessions for Topic T1 "*Engineering Seismology*" will be;  
Earthquake hazard assessment, Strong motion, Site effects and microzonation, and Design ground motion  
and for Topic T6 "*Managing Risk in Seismic Regions*" will be;  
Implications of recent earthquakes, Disaster risk assessment and management, Social economic and planning aspects, Insurance policy related to earthquakes, Earthquake scenarios, Early warning and tsunami.
- The sessions related to these two main topics will be coordinated by two representatives from EAEE and ESC. EAEE appointed Martin Koller for T1 "*Engineering Seismology*" and Zoran Milutinovic for T6 "*Managing Risk in Seismic Regions*". Dario Slejko was appointed as ESC representative for T1 "*Engineering Seismology*". ESC will be asked to propose one seismologist for T6 "*Managing Risk in Seismic Regions*".
- There will be theme lectures during joint sessions and the speakers will be proposed by the EAEE and ESC representatives. For the topics of the theme lectures emphasis will be given to the titles of EAEE-ESC joint Working Groups.
- As decided in the EAEE-ESC Joint Executive Committee Meeting held in Crete, the oral sessions for Topic T1 "*Engineering Seismology*" will be hosted by the ECEE, and the same topic will only be poster session during the ESC General Assembly in Montpellier.
- 40% discount will be applied for ESC participants that will register to the last 3 days of the conference. The same is expected at the ESC General Assembly for the EAEE participants who will attend only to the first 3 days.
- An exhibition booth will be allocated free of charge to EAEE during the ESC General Assembly in Montpellier.

The Vice President, Mihail Garevski completed his report by giving some information on the registration fees, accommodation, and social programme of the Conference.

The Vice President was informed to plan for the EAEE Association Council Dinner during the second evening, the EAEE General Assembly during the fourth evening, and consequently the Conference Dinner on the third evening of the conference in accordance with the guidelines for ECEE when finalising the conference program.

#### **Item 4 EAEE Prof. Nicholas Ambraseys Lectureship:**

It was previously decided to establish EAEE Award Lecture to honour Prof. Nicholas N. Ambraseys to be presented in every European Conference on Earthquake Engineering with the First Lecture to be presented during the 14th ECEE. The Awards Committee had been appointed composed of five members (A.Ansal - Chairman, A.Kappos, M.Koller, R.Flesch, D.Slejko) for the selection of the Ambraseys Lecture Award. The call for nominations had been announced via EAEE Newsletter and EAEE web pages.

On behalf of Awards Committee, Atilla Ansal gave details to the Executive Committee about submitted nominations and corresponding votes for 2010 Lecturer. Prof. Theodossios Tassios was recommended for the first Prof. Nicholas Ambraseys Distinguished Lecture Award by the Awards Committee. The Executive Committee approved the recommendations of the Awards Committee and decided to inform Prof.Tassios by an official letter signed by the President and Secretary General to invite him to deliver the First Prof. Nicholas Ambraseys Distinguished Lecture during the forthcoming 14th ECEE.

As the Awards Committee members, Atilla Ansal and Andreas Kappos (based on telephone conversations) proposed to revise the "Guidelines for Prof. Nicholas Ambraseys Distinguished Lecture Award" such that the Award Committee can also nominate candidates. This suggestion was approved by the Executive Committee. "Guidelines for Prof. Nicholas Ambraseys Distinguished Lecture Award" was revised such that "*Written citations (~ 1-2 pages) will be requested giving the reasons of nominations. Upon receipt of nominations, nominators shall receive a letter of appreciation from the Awards Committee.*" sentences were deleted and "*Awards Committee may also nominate candidates for the Lecture Award*" sentence was added. It was also agreed to ask a professional graphical designer to design Commemorative EAEE Plaque that will be given to the Award winner.

#### **Item 5 Central Office Report for 2008-2009 term:**

The Report of the Central Office Activities for the term September 2008 - June 2009 was presented by the Secretary General. He summarised the activities related to the EAEE Executive Committee, EAEE Newsletter, EAEE Web page, EAEE Memberships, Audit and yearly report to Turkish Department of Associations, EAEE participation to the FP7 Project SERIES, joint activities with ESC and the Task Group activities.

Central Office would like to include more articles in the Newsletter like the report about the L'Aquila Earthquake of 6 April prepared by Mónica Amaral Ferreira that was published in Newsletter Vol. 27, No. 1. This was the first article of technical nature published in EAEE Newsletter. Similar contributions will be welcomed on popular topics like recent earthquakes, issues and book reviews related to earthquake engineering in the future issue.

Secretary General proposed to redesign of the EAEE web pages professionally with a database and a search engine for BEE related pages and manuscripts. The Executive Committee approved this proposal and asked the Secretary General to inform the Executive Committee after a preliminary budget and a design proposal is received.

The Secretary General informed the Executive Committee concerning the participation of the EAEE Central Office in FP7 Project "Seismic Engineering Research Infrastructures for European Synergies, SERIES". The Secretary General will be the Leader for Work Package WP4/NA3 on "European Integration - European and international co-operation of research infrastructures". His main activities will be coordination of NA3 towards its general objectives:

- outreach to, and integration of, the European S&T community in earthquake engineering,
- co-operation of research infrastructures at the European and international level.

The SERIES budget will be used to support Gokce Tonuk for her activities related to EAEE.

The membership situation and numbers of paid and unpaid members for 2009 were summarised. The Central Office received from Italian and French National Societies proposals for supporting all their members to be EAEE individual members.

Secretary General expressed that the membership fees should be reconsidered for this new situation and he informed the Executive Committee that Springer has no objection for these new proposals from Italy and France concerning the registration of all their members as individual members of EAEE. The Executive Committee discussed and agreed to accept the proposals from Italian and French National Societies based on the following conditions:

- If all members of the national societies become individual members, special membership fee will be 15.00€ per person and National Associations will not be required to pay any additional national membership fees,
- These members will only have electronic subscription to BEE and will have their own username and password. They will be subscribing Individual Members of EAEE with no voting rights in the EAEE General Assembly.
- The membership form will be rearranged and a check box will be added to identify this reduced rate BEE subscription for the members of the national societies.
- In order to apply this reduced rate BEE subscription, at least half of the members of the national association with the minimum of 25 members from the national society agree to be EAEE subscribing Individual Members.

Secretary General informed the Executive Committee about the audit and yearly reports prepared and delivered to Turkish Department of Associations. Executive Committee approved the expenditure of 520€ for the Audit report on 20/3/2009.

Secretary General read the letter received from the Turkish National Committee on Earthquake Engineering informing EAEE that the General Assembly of Turkish National Committee unanimously decided to continue the activities of the Turkish National Committee under the legal umbrella of the Turkish Earthquake Foundation. This change will help to retain their non-governmental status with the same composition and same statues of the Turkish National Committee on Earthquake Engineering. Because of this development, the new name became Turkish Earthquake Foundation - Earthquake Engineering Committee. The names of the elected Executive Committee members and the appointed National Delegate for EAEE were also given.

Joint activities with ESC were discussed in detail and items decided concerning the cooperation of EAEE and ESC are as follows:

The 1<sup>st</sup> Prof. Nicholas Ambraseys Lectureship will be given during the 14<sup>th</sup> ECEE and the 2<sup>nd</sup> has to be scheduled during the 33<sup>rd</sup> ESC General Assembly in 2012. The candidate towns for the 2012 and 2014 assemblies should be presented in Montpellier. Mariano Garcia will be asked to disseminate a call to the national delegates, giving emphasis that the 2014 ESC Assembly will be a joint EAEE-ESC conference.

The suggestion of an EAEE-ESC proposal to the next Marie Curie call was raised for joint training courses. It was suggested that the Secretary Generals of the EAEE and ESC should consider this issue and if possible prepare some preliminary suggestions to be evaluated by both EAEE and ESC Executive Committees.

Three joint working groups were determined to increase the technical cooperation between EAEE and ESC. In accordance with the ESC suggestions, the Joint Working Groups from ESC are:

- 4-07 Macroseismic field work practices (Leader I. Cecic),
- 1-08 Strong motion recordings (Leaders: J. Douglas and N.N. Ambraseys) and
- 3-08 Earthquake risk reduction in built cultural heritage in the Mediterranean basin (Leader: D. Benouar).

respectively corresponding EAEE Task Groups will be:

- TG3 on "Structural Vulnerability and Earthquake Scenario" Coordinator: M. Dolce (although it is not a directly related correspondence),
- TG2 on "Strong Motion Records for Engineering Applications" Coordinator: Ragnar Sigbjörnsson, John Douglas, N.N. Ambraseys
- TG10 on "Seismic Aspects of Historical Monument Preservations" Coordinator: C. A. Sirmakezis,

Robin Spence expressed interest in the 4-07 activity. Ina Cecic will be asked to send information about the activity of WG 4-07 to Atilla Ansal and to Robin Spence, and of the Benouar WG to Atilla Ansal to be distributed to related EAEE Task Groups.

**Item 6 Bulletin of Earthquake Engineering:** The Secretary General briefly summarised the updated report on Bulletin of Earthquake Engineering.

He mentioned the names of the new Special Issue proposals that were received during the past year that are in line for publication. The number of submitted manuscripts increased significantly indicating the increasing popularity of BEE. In the first half of 2009, BEE received 48 articles, whereas the number of manuscripts submitted was only 26 for the whole year in 2003. It had been decided to increase the number of issues per year from 4 to 6 starting from 2010.

At the present, Editorial Board is composed of 31 distinguished researchers and Springer wants to keep the number approximately at 30s. Most of the Editorial Board Members served for eight years as authors and as reviewers. The Secretary General as the Editor in Chief summarised the needs and plans for the renewal of the Editorial Board during 2010.

The Protocol between EAEE and Springer regarding BEE was reviewed by Executive Committee Members and was approved to be signed by the Secretary General.

**Item 7 Budget:** Secretary General presented the budget for the term of September 2008-June 2009.

	INCOME	EXPENDITURE
<b>BALANCE FROM SEPTEMBER 2008</b>	1,948.79 €	
<b>Membership fees from</b>		
National Members	4,399.30 €	
Corporate Members	196.00 €	
Individual Members	2,105.16 €	
Electronic Subs.		
Individual Members	1,180.50 €	
Paper Copy Subs.		
Individual Members	367.50 €	
Electronic+Paper Copy Subs.		
<b>Secretary of the Central Office</b>		1,500.00 €
<b>Office Expenses</b>		
Auditing Cost		519.48 €
Newsletter printing		527.00 €
Rate for bank account and Interest		126.59 €
<b>SPRINGER</b>		
Hard Copy(2008+2009)		2,978.00 €
<b>SUM</b>	<b>10,197.25 €</b>	<b>5,651.07 €</b>
<b>DIFFERENCE</b>		<b>4,546.18 €</b>
<b>SPRINGER DEBT</b>		<b>1,075.00 €</b>
<b>BALANCE FOR JUNE 2009</b>		<b>3,471.18 €</b>

In the present situation the incomes and the expenditures were 10,197.25 € and 5,651.07 €, respectively with a balance of 4,546.18 € from which 1,075.00 € (750.00 € for electronic subscription) is EAEE's recent debt to Springer. The budget was approved by the Executive Committee.

**Item 8 EAEE Statutes:** Modification of the EAEE Statutes by assigning different weights to Individual and National Members had been discussed on different occasions starting with the suggestion of Executive Committee Member Andreas Kappos. It was decided in

the previous Executive Committee Meeting to adopt a delegate system for all types of memberships such that each National Association will be represented in the EAEE General Assembly by one (1) delegate for every 100 members of the National Society. Individual Members will be represented by one (1) delegate for every 100 Individual members that will be elected by balloting among the Individual Members participating to the Conference 24 hours prior to the General Assembly. However, due to the practical difficulties especially concerning the election among individual members, it was decided to reverse the approach by increasing the weights of the National Members instead of decreasing the weight of the Individual Members.

After detailed discussions, it was decided to adopt a more balanced voting system between National and Individual Members where the vote of the Delegates of the National Members will be proportional with the number of members of the corresponding National Societies. For every 25 members of a National Society, National Delegate will have one vote with the minimum number of 2 votes and maximum number of 25 votes. The number of the members of the National Societies will be calculated as the average of the EAEE National Memberships dues received during the prior four years of the date of the General Assembly.

The Executive Committee agreed to restore a Secretary post in the Executive Committee who will be elected by the Executive Committee as existed in the previous EAEE Statutes.

**Item 9 Miscellaneous:**

- The President, Martin Koller summarised the meeting and expressed that all national members should be reminded that next conference will be a joint conference with the same proposal to both EAEE and ESC Executive Committees.
- Executive Committee Member Carlos Oliveira stated his opinion that in order to ask for financial support for retrofitting purposes from EU, EAEE would try one more time in Brussels. Executive Committee Member Robin Spence supported this proposal and added that EAEE should have a targeted objective for upgrading like critical structures (hospitals, schools, etc) and a meeting arrangement in Brussels should be organised soon before L'Aquila has been forgotten.
- It was decided to have the next Executive Committee Meeting in Skopje, Macedonia in spring, probably on April 24-25, 2010.

**Epilogue:** The fourth meeting of the EAEE Executive Committee held in Istanbul ended with the thanks of the President to all participating members.

Atila Ansal  
Secretary General



European Association for  
Earthquake Engineering



Turkish Earthquake Foundation  
Earthquake Engineering Committee

## **21<sup>st</sup> EUROPEAN REGIONAL EARTHQUAKE ENGINEERING SEMINAR** ***Seismic Assessment and Retrofit of Bridges***

June 15-18, 2010

Işık University Şile Campus, Istanbul, Turkey

### ***Purpose:***

The majority of bridges situated in seismic zones have not been mostly designed and built according to latest design criteria and with respect to recent findings concerning earthquake characteristics. This brings a major challenge for the identification, seismic assessment and retrofit of a great number of vulnerable bridges in Europe and worldwide. In addition to procedures for seismic vulnerability, screening and rapid assessment of bridges, a great deal of effort has been spent in recent years for the development and application of performance-based seismic assessment and retrofit design methods.

The 21<sup>st</sup> regional seminar is mainly organised to inform young researchers, practising engineers and scientists about new developments in the field of seismic assessment and retrofit of existing bridges. The seminar will combine contributions from young researchers and engineers with keynote lectures by leading earthquake engineers. The lectures will present state-of-the-art lectures on the seismic assessment and retrofit of bridges.

### ***Seminar themes:***

The Program will address the seven major themes indicated below and will be conducted in a General Session. There will be no concurrent sessions and two major themes will be addressed each day and will include Keynote Speakers, contributions from young researchers or engineers and panel discussions. The Organisation Committee invites participants to submit a one page abstract electronically to [ansal@boun.edu.tr](mailto:ansal@boun.edu.tr) until March 15, 2010, on one of the following topics: Seismic vulnerability of bridges, Seismic screening and rapid assessment methods, Seismic assessment criteria, Performance-based seismic assessment methods, Retrofit techniques for bridges, Performance-based seismic analysis of retrofit design of bridges, Case studies.

Contributions on the assessment and upgrading of lifelines networks and utilities will also be welcome. In addition, there will be a half-day technical field trip, an Ice Breaker reception at the beginning, four buffet lunches and an evening banquet, plus exhibits and displays throughout the Seminar. The seminar language will be English with simultaneous translations to Turkish for local engineers.

### ***Invited speakers:***

Prof. M. Nuray Aydınoğlu, Prof. Donatello Cardone, Dr. Murat Dicleli, Prof. Mauro Dolce, Prof. Mustafa Erdik, Prof. Matej Fischinger, Prof. Rainer Flesch, Prof. Tatjana Isakovic, Prof. Andreas Kappos, Prof. George Mylonakis, Dr. Göktürk Önem, Prof. Stavroula Pantazopoulou, Dr. Temelina Paraskeva, Prof. Paolo Pinto, Dr. Anastasios Sextos.

### ***General Information:***

Prof. Dr. M. Atilla ANSAL, Secretary  
Boğaziçi University, Kandilli Observatory and Earthquake Research Institute

Telephone: +90 216 332 5530  
Fax: +90 216 462 1932  
e-mail: [ansal@boun.edu.tr](mailto:ansal@boun.edu.tr)

## SUMMARY REPORT FOR 2009

Last year when I was informed that BEE received second highest impact factor for 2007 as 1.125 among the five earthquake engineering journals (Earthquake Engineering and Structural Dynamics, Bulletin of Earthquake Engineering, Earthquake Spectra, Soil Dynamics and Earthquake Engineering, Journal of Earthquake Engineering), I was very surprised but I was very happy. This year I was informed on June 22 by the Senior Publishing Editor of Earth Sciences of Springer that BEE received the highest impact factor of 1.271 among the same five earthquake engineering journals, I was surprised but I was again very happy. I am completely aware that this may not happen again, but I hope we will be able to increase our impact factor also for 2009.

The publication of BEE started approximately six years ago in 2003. It is unbelievable to have become so popular so rapidly in six years. It would not have been possible without the contributions of the BEE Editorial Board, authors of the published manuscripts and the competent and dedicated reviewers.

I would like to express my gratitude to all authors who are really the main contributors to this process and to all the Members of the Editorial Board for all their support as reviewers, authors and Guest Editors. I would also like to thank all reviewers for their very important input in this process. And of course I would like to express our gratitude and thanks to Springer and to Petra D. van Steenberg, Senior Publishing Editor of Earth Sciences for their continuous support and encouragement.

In 2003 and in 2004, the number of manuscripts submitted was 26 for both years. In 2005 this number increased to 38, in 2006 to 51, in 2007 to 65, in 2008 to 107, and in 2009, we received 126 articles. The number of submitted manuscripts with respect to 2008 increased approximately 18% indicating the steadily increasing popularity of BEE.

With respect to printed manuscripts; the first BEE volume in 2003 had 16 articles, the second volume in 2004 had 15 articles, and the third volume in 2005 had 12 articles. Due to the increase in the number of issues to four, fourth volume in 2006 had 25 articles, fifth volume in 2007 had 27 articles and sixth volume in 2008 had 34 articles, and seventh volume in 2009 had 33 articles.

The number of issues per year will increase from 4 to 6 as of 2010. The first issue of Volume 8 is already printed. It is a Special Issue on "Structural Seismic Safety Assessment" with Guest Editor; Carlos S. Oliveira, Anibal Costa, and Raimundo Delgado. This issue contains 10 articles including the Guest Editorial. The second issue of Volume 8 will soon be printed and it will contain 12 manuscripts previously submitted, reviewed, revised and accepted, and are available as OnlineFirst.

There were two new special issue proposals during the past year and with the two from previous year a total of 4 special issues are in line for publication:

- Ambient Noise Measurements on Soil and Buildings; Guest Editor: Marco Mucciarelli (All of the 13 manuscripts were reviewed, revised and are available OnlineFirst. Most likely this special issue will be published as the 3rd issue of Volume 8)

- Italian strong motion data and networks; Guest Editors: Lucia Luzi, Paolo Augliera and Antonella Gorini (All of the 9 manuscripts were reviewed, revised and are available OnlineFirst. Most likely this special issue will be published as the 4th issue of Volume 8)
- Old Masonry Under Seismic Loading; Guest Editor: Carlos S. Oliveira (Out of the proposed 13 manuscripts 10 were submitted and are under review)
- L'Aquila earthquake: Seismic sequence of 6th April 2009, Abruzzo, Italy; Guest Editors: Dina D'Ayala and Mauro Dolce (Out of the proposed 17 manuscripts 3 were submitted and are under review)

Atilla Ansal  
Editor

### Authors in 2009 (in Alphabetical order)

Aghabarati,H., Alarcón,J.E., Allen,T.I., Arango-Gaviria,M.C., Arède,A., Atakan,K., Bassano,M., Berilgen,M.M., Bernal,I., Bilham,R., Bindi,D., Bommer,J.J., Borzi,B., Cardone,D., Colombi,M., Costa,A., Costa,A.C., Crowley,H., Delgado,P.S., Delgado,R., Dolce,M., Drosos,V., Earle,P.S., Enunlu,A.K., Fajfar,P., Faravelli,M., Gazetas,G., Gerolymos, N., Gesualdi, G., Goda,K., Gospodinov,D., Guler,E., Halldórsson,B., Haller,P., Havskov,J., Hearne,M.G., Heiduschke,A., Hong,H., Hotovec,A.J., Johnson,N., Kappos,A.J., Karaiskos,G., Karakostas,C., Kasal,B., Katsaras,C.P., Kirtas,E., Klemenc,I., Koliass,B., Kotsoglou,A.N., Lekidis,V., Lin,K., Lopez,M., Luzi,L., Makarios,T., Marano,K.D., Massa,M., Meroni,F., Moschonas,I.F., Musson,R.M.W., Nikolaou,I., Ntotsios,E., Ólafsson,S., Onida,M., Özyaydin,K., Özener,P.T., Pacor,F., Palermo,G., Panagiotakos,T.B., Panetsos,P., Pantazopoulou,S.J., Papadimitriou,C., Papadopoulos,V., Peiris,N., Perdikaris,F., Perros,K., Pinho,R., Pitilakis,K., Polli,D., Rivelli,M., Rocha,P., Rossetto,T., Rovithis,E., Rozman,M., Rupakhety,R., Sabetta,F., Saiidi,M., Sanders,D., Sextos,A.G., Sigbjörnsson,R., Smith,I., Snaebjörnsson,J.Th., So,E., Sousa,M.L., Stamatopoulos, C.A., Strasser, F.O., Taucer, F., Tavera, H., Tehranizadeh, M., Thanopoulos,P., Timosidis,S., Tomažević,M., Vila-Pouca,N., Wald,D.J., Weiss, P.

### Reviewers during 2008-2009 (in alphabetical order)

S.Akbar, M.Aktar, D.Albarello, A.Aldea, O.Altan, S.Altun, E.A.Alvarez, D.Ambrosini, A.Arede, S.Arsoy, M.Ascheim, M.Asten, K.Atakan, S.K.Au, Ö.Aydan, M.N.Aydinoğlu, A.Barbat, P.Bakır, S.Bakır, J.Beck, R.Bento, M.M.Berilgen, A.Bernardini, L.Binda, D.Bindi, P.Bisch, R.Blazquez, H.Boduroglu, E.Booth, R.Bossu, S.N.Bousias, C.Boutin, F.Braga, A.Brennan, H.Bungum, A.Campos Costa, D.Cardone, R.Carneiro de Barros, C.Casarotti, J.Cassidy, A.Castellani, S.Castellaro, R.Castro, M.Cattaneo, I.Cecic, M.Celebi, Z.Celep, K.O.Cetin, G.Chase, C.Chrysostomou, O.Çinicioglu, J.Clinton, P.Coelho, M.Constantinou, H.Crowley, D.F.D'Ayala, J.V.de Lamos, R.Delgado, P.Delgado, K.Doi, M.Dolsek, J.Douglas, A.Elenas, A.Elghazouli, M.Erdik, A.Erken, Y.Fahjan, P.Fajfar,

M.N.Fardis, M.Farsi, S.Foti, M.Fragiakakis, P.Franchin, M.R.Gallipoli, A.Goretti, A.Gosar, P.Gueguen, Z.Gülerce, B.Halldorsson, S. W. Han, U.Hancılar, Z.Hasgür, M.Herak, A.Ilki, T.Ivic, R.S.Jangid, R.Jankowski, R.Jibson, A.J.Kappos, F.Karadogan, A.Karakhanyan, L.Katafygiotis, A.Kaynia, T.Kokusho, J.Koseki, G.Kouretzis, M.Kowalsky, A.Kurtulus, P.Lam, M.Laterza, J.Laue, H.J.Lee, D.Leshchinsky, P.Lestuzzi, H.Ling, D.C.Lo Presti, M.Lopes, A.Lupoi, G.Magliulo, P.Malischewsky, F.Marazzi, A.L.Marcellini, A.Masi, F.Mazzolani, F.Mele, M.Melkumyan, A.Modaressi, H.Mohamed, F.J.Molina, H.Montes, G.Monti, M.O.Moroni, P.Mouroux, M.Mucciarelli, R.M.W.Musson, G.Mylonakis, M.Navarro C.Nuti, A.Occhiuzzi, D.Oliveira, C.S.Oliveira, O.Oprsal F.Pacor, S. Pantazopoulou,

R.Paolucci, A.Papageorgiou, S.Parolai, A.Pavese, A.Pecker, A.Penna, V.Perlea, M.A.Petal, L.Petrini, M.Picozzi, M.Pilz, R.Pinho, A.Pinto, P.Pinto, K.Pitilakis, A.Plumier, Y.Politopoulos, F.C.Ponzo, E.Priolo, D.Raptakis, D.Rinaldis, A.Rodriguez-Marek, M.P.Romo, M.Ruiz-Sandoval, A.V.Rutenberg, F.Sabetta, E.Safak, F.Scherbaum, K.Şeşetyan, A.Sextos, H.Sezen, R.Sighjörnsson, L.Simoes da Silva, B.Siyahi, A.Skarlatoudis, D.Slejko, R.Spence, C.Srymakezis, M.Stupazzini, H.Sucuoglu, P.Suhadolc, D.Sumarac, T.Susagna, V.Sylaja, G.B.Tanircan, B.Taşkan, T.Tazoh, B.Teymur, S.Tileylioglu, M.Tomažević, S.Toprak, A.Tsonos, C.Tüzün, K.Ugai, T.van Eck, I.Vanzi, H.Varum, R.Verdugo, E.Vintzileou, M.Vona, D.Wald, M.Wieland, J.Wood, Y.M.Wu, A.Yakut, M.Yamada, S.Yasuda, K.Yuen, E.Yüksel, C.Zulfikar

## FORTHCOMING EVENTS

**3-5.3.2010 7th International Conference on Urban Earthquake Engineering and 5th International Conference on Earthquake Engineering** Tokyo, Japan; Email: [conf@cuee.titech.ac.jp](mailto:conf@cuee.titech.ac.jp)

Web Site: <http://www.cuee.titech.ac.jp/index-e.html>

**20-23.4.2010 Seismological Society of America (SSA) 2010 Annual Meeting** Portland, Oregon; United States of America; Contact Info: Seismological Society of America, Email: [info@seismosoc.org](mailto:info@seismosoc.org)

Web Site: <http://www.seismosoc.org>

**19-20.5.2010 12th International Congress of the Geological Society of Greece**, University of Patras, Greece, Congress Secretariat: Synedra, Website: [www.synedra.gr](http://www.synedra.gr)

**24-29.5.2010 Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I.M. Idriss** San Diego, CA; Web Site: <http://conference.mst.edu/5geoeqconf2010>

**23.-29.7.2010 9th U.S. National and & 10th Canadian Conference on Earthquake Engineering: Reaching Beyond Borders** Westin Harbour, Castle Hotel, Toronto, Canada; Web Site: <http://www.2010eqconf.org>

**30.8-3.9.2010 14th European Conference on Earthquake Engineering (14 ECEE)** Skopje, Republic of Macedonia; Web Site: <http://www.14ecce.org.mk>

**5-9.9.2010 32nd General Assembly of European Seismological Commission** Montpellier, France; Web Site: <http://www.esc2010.eu/esc2010>

**9-11.9.2010 6th International Conference on Civil Engineering Design and Construction**, Varna Free University, "Chernorizets Hrabar", Varna, Bulgaria; Web Site: <http://www.ntssb.911.bg>

**23.-26.9.2010 XIX Congress of the Carpathian Balkan Geological Association (CBGA2010)** Thessaloniki, Greece; Web Site: [www.cbqa2010.org/Documents.htm](http://www.cbqa2010.org/Documents.htm)

**20-23.10.2010 8th National Conference on Seismology and Earthquake Engineering (SISMICA2010)**, University of Aveiro, Aveiro, Portugal; Web Site: <http://sismica2010.web.ua.pt/en/>

## WORKSHOP: Improving Strong Motion Data for Engineering Applications, March 25-27, 2010

**Conference Venue:** Instituto Superior Técnico, Technical University of Lisbon, Department of Civil Engineering and Architecture (DECivil), Av. Rovisco Pais, 1049-001 Lisbon, Portugal

**Objectives:** In the framework of the NERIES Project, a distributed accelerometric database has been developed and implemented. This system allows data users to access to parameters and waveforms from various network operators in the Euro-Mediterranean region. All this information is accessible through a dedicated web portal.

The main goals of this workshop are: to inform the Network Operators with the last developments of NERIES for site stations characterization and for standardization of data formats and instrument responses, and to provide the data users with information on how to get data through NERIES portal.

**Secretariat:** Inês Lopes – IST Lisbon

Email: [inesl@civil.ist.utl.pt](mailto:inesl@civil.ist.utl.pt), Tel:+351 218418219

Other contacts: Carlos Sousa Oliveira, e-mail: [csoliv@civil.ist.utl.pt](mailto:csoliv@civil.ist.utl.pt)

Xavier Goula, e-mail: [xgoula@igc.cat](mailto:xgoula@igc.cat)



## REQUEST FOR PROPOSALS: GLOBAL EARTHQUAKE MODEL (GEM)

GEM seeks to establish an authoritative standard for calculating and communicating earthquake risk. GEM will be the first global, open source model for seismic risk assessment at a national and regional scale, and aims at achieving broad scientific participation and independence. GEM aims to achieve its goals by developing state-of-the-art open source software and global databases necessary for reliably mapping earthquake risk. To this end, GEM has posted Requests for Proposals, within the scope of its Risk Module. The RfPs will be published on the GEM website **15 January 2010** and are due **15 March 2010**. They have the following target budgets and durations:

- GEM Ontology and Taxonomy, 300,000 Euro, 36 Months. Because earthquakes affect virtually all parts of society, GEM's model and its inputs/outputs are necessarily very broad and must develop in an evolutionary manner. However, even at the outset, some methodological foundation and terminology are needed in order to achieve a shared understanding across the disparate fields and endeavors encompassed by GEM. To fill this need, we are requesting submission of proposals for the development of a sustainable GEM Ontology and Taxonomy (O&T).
- Global Exposure Database, 900,000 Euros, 36 Months. The consortium working on this exposure inventory development component will create an open database of the global building stock distribution (and the associated uncertainties) that contains the spatial, structural, and occupancy-related information necessary for damage, loss and human casualty estimation models to be employed in GEM.
- Global Earthquake Consequences Database, 700,000 Euros, 36 Months. To support the development of tools for vulnerability assessment, a global database of earthquake impacts and consequences should be created. The aim is to assemble and store in a structured and web-accessible way both data (including photographs) already acquired and data yet to be acquired following future events that show the consequences of earthquakes, including building damage, damage to lifelines and other infrastructure, ground failure, human casualties, social disruption, and financial and economic impacts.
- Inventory Data Capture Tools, 750,000 Euros, 30 Months. The Inventory Data Capture Tools RfP aims to provide the tools that will enable the capture and transfer of high-resolution inventory data into either the Global Exposure Database or the Global Earthquake Consequences Database. The data capture process is expected to involve merging data collected using Remote Sensing with a combination of data acquired from Direct Observation.
- Global Vulnerability Estimation Methods, 750,000 Euros, 36 Months. Vulnerability assessment in this global component comprises the estimation of the degree of direct loss due to building damage (both structural and non-structural). By direct loss we refer to social losses (i.e. injuries, fatalities) and economic losses (i.e. repair costs, downtime) that can be directly correlated to the damage resulting from ground shaking at a given level of intensity.

We anticipate that proposals will be prepared and submitted by international consortia. The GEM Secretariat will aim to facilitate contact between institutions for the creation of international consortia. Proposals will be subject to peer review, and will be selected by the GEM Scientific Board, with decision expected in July 2010.

To learn more about GEM and to download the separate request documents and guidelines for the preparation of the proposals [from January 15<sup>th</sup> 2010], visit [www.globalquakemodel.org](http://www.globalquakemodel.org).



## OPPORTUNITIES FOR USE OF EUROPEAN SEISMIC ENGINEERING RESEARCH INFRASTRUCTURES WITH SUPPORT FROM THE EUROPEAN COMMUNITY

Through FP7 RTD project SERIES (Seismic Engineering Research Infrastructures for European Synergies), the European Community is supporting [Transnational Access](#) (TA) of outside users to a portfolio of seismic research infrastructures. The facilities available for Transnational Access are:

- EU's largest Reaction Wall and Pseudodynamic testing facility (ELSA) at the JRC, Ispra,
- Unique Centrifuge Test facilities, the largest in the EU, at LCPC, in Nantes (FR) and Cambridge University (UK),
- EU's four largest earthquake Shaking Tables, each one with diverse capabilities, at the TAMARIS laboratory of CEA, in Saclay (FR), LNEC, in Lisbon (PT), EUCENTRE in Pavia (IT) and the Bristol University Laboratory for Advanced Dynamics Engineering (UK), and
- EU's largest Seismic Tester for Bearings and Isolation Devices also at the EUCENTRE.

Users will be given free access to the infrastructures for the design of the test model and the instrumentation, for the execution of the tests and for the processing and interpretation of results. They will be integrated into the scheduling of the infrastructure during the execution programme of each project, from the design and construction of the test model, to instrumentation, experimental testing and interpretation of the experimental results, receiving from the staff of the infrastructure all the technical and scientific support needed to carry out their project. A user support team will be allocated to each user on a daily basis, to develop and execute the test programme, including appropriate technicians for test model fabrication, instrumentation, etc.

The call is open, but the next round of evaluations will take place at the end of August, 2010, in conjunction with the 14<sup>th</sup> ECEE in Ohrid (MK). Prospective users are invited to team up and submit [TA proposals](#) via [www.series.upatras.gr](http://www.series.upatras.gr), using the [template](#) and the instructions available at that site. The lead user in the team and the majority of the users should be working in an institution in a EU Member State or EU Associated country, but other than the one where the TA facility is established. Proposals will be evaluated through a transparent, fair and impartial peer-review process, according to a set of criteria published at the site. Preference will be given to teams of first-time users of each TA facility and to those without this type of research infrastructure in their home country. Acceptance will depend on the access days still available at each TA facility.

Successful user teams are asked to sign a contract agreement with the corresponding facility, delineating the test program and the specimen(s), estimating the length of user stays at the facility and the days of use. The facility will later determine more precisely the access days and the technical program, consulting the user. The user will be required to publish the knowledge generated, first in interim and public final reports and then in Journal or Conference papers.

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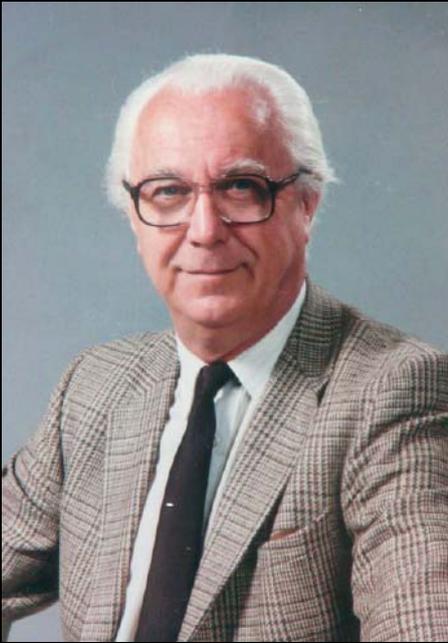
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# OBITUARY

*Prof. Dr. Dr.h.c.mult. Thomas Paulay*

**1923 – 2009**

Thomas Paulay, Professor Emeritus of Structural Engineering at the University of Canterbury, Christchurch, New Zealand, died on June 28, 2009 at the age of 86.

Tom Paulay was one among the few very great persons, who shaped the enormous progress in science and practice of earthquake engineering in the last few decades in a distinct way.

Without exaggeration, we can say that of these few Greats, he had the most significant influence on the art of seismic design of structures. He was a co-founder and so to say the “father” of the theory and method of capacity design. This innovative procedure to achieve a ductile behaviour deeply revolutionized the conceptual design, the calculation and the detailing of structures for earthquake loading and spread to the whole world. Moreover, Paulay’s later creative and original contributions to the solutions of other demanding problems, such as the reality-related stiffness of reinforced concrete structures and the nonlinear behaviour and design of buildings with torsion, have strongly impacted the science and professional practice of earthquake engineering. The excellent work of Tom Paulay strongly influenced the European Building Code (Eurocode) and the Swiss Code as well as many other National Codes.

By Hugo Bachmann

## **Brief CV:**

- 1923 Born on May 26 in Sopron, Hungary
- 1943 Graduate from Royal Hungarian Military Academy, Budapest
- 1944–1945 Military service in World War II
- 1946–1948 Started studying Civil Engineering at Technical University of Budapest (TUB)
- 1948 Escape from Hungary
- 1951 Emigration to New Zealand (NZ)
- 1954 Graduate in Civil Engineering from University of Canterbury, Christchurch, NZ (UCC)
- 1954–1961 Design engineer 1961 Lecturer at UCC
- 1968 Sabbatical at Techn. Universities Stuttgart and Munich
- 1969 PhD from UCC
- 1975 Professor of Structural Engineering at UCC
- 1979–1981 President of New Zealand Society for Earthquake Engineering
- 1986 Order of the British Empire O.B.E.
- 1987 Honorary Member of ACI
- 1988 Honorary Doctor of ETHZ
- 1990 Honorary Doctor of TUB
- 1992–1996 President of International Association for Earthquake Engineering (IAEE)
- 1996 Honorary Member of IAEE
- 1996 Honorary Doctor of Technical University of Bucharest, Romania
- 1996 Order of Merit of the Republic of Hungary
- 1999 Honorary Doctor of National University of Cuyo, Argentina
- 2001 Outstanding paper Award IABSE
- 2008 International Award of Merit of IABSE
- 2008 “Legend in Earthquake Engineering” of IAEE
- 2009 Passed away on June 28