



## EUROPEAN ASSOCIATION FOR EARTHQUAKE ENGINEERING

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**Honorary Members:** N.Ambraseys (UK), D.Anicic (Croatia), G.Grandori (Italy), A.A.Moinfar (Iran)

## REPORT OF THE CENTRAL OFFICE ACTIVITIES

### SEPTEMBER 2002 - SEPTEMBER 2004

#### GENERAL

The main activities of the Central Office during this two-year term were:

- *preparation and distribution of the Minutes of the General Assembly of EAGE Delegates held on September 11, 2002 in London, UK during 12<sup>th</sup> ECEE*
- *organisation of the Executive Committee Meetings, preparation and distribution of the Minutes,*
- *preparation, publication and distribution of the EAGE Bulletin No .21,*
- *preparation and updating of EAGE Internet web pages,*
- *informing the National Delegates, Task Group Coordinators, Working Group Conveners, and related international organisations about the EAGE activities.*

The Secretary General participated to:

- *XXIXth General Assembly of European Seismological Commission, 12-17 Sep., 2004, Potsdam, Germany;*
- *13<sup>th</sup> World Conference on Earthquake Engineering, 1-6 August, 2004, Vancouver, Canada*
- *Third Int. Conf. on Earthquake Geotechnical Engineering, 7-9 January 2004, San Francisco; USA*
- *First 3CD Coordination Workshop, 26-27 June 2004 Seeheim, Germany;*
- *Lectures on Seismic Microzonation, 5 June 2004, "Ecole Nationale d'Ingénieurs de Tunis", Tunisia;*
- *Seismic Risk Mitigation Issues in Montenegro and the Region, 15-16 April 2004, Podgorica, Montenegro;*
- *International Conference on Cyclic Behaviour of Soils and Liquefaction Phenomena, 31 March-2 April 2004, Bochum, Germany*
- *International Workshop on Uncertainties in Nonlinear Soil Properties and their Impact on Modeling Dynamic Soil Response, 18-19 March 2004, Richmond, California, USA*
- *Protection of Historical Structures and Monuments Against Earthquakes, 5-10 November 2003, Crete, Greece*
- *Workshop of FP5 Project on "Site Effects Assessment using Ambient Excitations (SESAME)" 22-25 September 2003, Bratislava, Slovakia*
- *International Conference on Earthquake Engineering to Mark 40 Years from the Catastrophic 1963 Skopje Earthquake and Successful City Reconstruction, 26-29 August 2003, Skopje & Ohrid, Republic of Macedonia*
- *Workshop on Ground motion simulations based on earthquake scenarios along the North Anatolian Fault Zone (NAFZ), 10-14 March 2003, Bergen, Norway*
- *Third International Workshop on Earthquakes and Megacities, 31 October- 3 November 2002, Shanghai, China*

to represent EAGE and to attend Task Group meetings and technical sessions. He made brief presentations about the EAGE and about Task Group activities in some of these meetings.

## **EXECUTIVE COMMITTEE**

The Central Office organised or helped in the organisation of:

- *the First Executive Committee Meeting on September 13, 2002 in London, UK, during the 12<sup>th</sup> ECEE;*
- *the Second Executive Committee Meeting on November 22, 2003 in Geneva, Switzerland;*
- *the Third Executive Committee Meeting on August 5, 2004 in Vancouver, Canada during the 13<sup>th</sup> WCEE;*
- *the Fourth Executive Committee Meeting on September 15, 2004, in Potsdam, Germany during the 29<sup>th</sup> General Assembly of European Seismological Commission;*

The minutes of the first three meetings were prepared and forwarded to all the Executive Committee Members, National Delegates, Honorary Members, the representatives of ESC and UNESCO. They were also inserted in EAEE web pages.

## **EUROPEAN SEISMOLOGICAL COMMISSION**

The Secretary General has participated to the Executive Committee Meeting of ESC held on 7 April 2003 in Nice, France.

## **MEMBER ORGANISATIONS OF EAEE**

The Central Office received a complete formal application from Ukraine (Association for Ukrainian Earthquake Engineering), Georgia (Georgian National Committee of Earthquake Engineering & Engineering Seismology) and Kazakhstan (Public Regional Foundation for Development of Earthquake Engineering) expressing their intention to become a National Member Association of EAEE. The memberships of the all three National Associations were accepted on 22 November 2003 during the Third Executive Committee Meeting. The Membership of Greece was changed by the EC by postal balloting among the EC members from Technical Chamber of Greece to Hellenic Society of Earthquake Engineering upon the application of both societies.

## **WORKING GROUPS AND TASK GROUPS**

### TG1 on "Performance-Based Design"

*Co-Coordinator Paolo Negro, Italy and Nuray Aydınoglu, Turkey*

The task group was established during the Second Meeting of the EC upon the proposal submitted by Paolo Negro. TG1 had their first meeting during the Bled Conference in Slovenia. The Secretary General was informed that they are planning to prepare a special issue for Bulletin of Earthquake Engineering on Performance Based Design in Europe.

### TG2 on "Interpretation of Strong Motion Records for Engineering Applications"

*Coordinator: Prof. N.N. Ambraseys, UK*

A new CD ROM of strong-motion data called '*Dissemination of European Strong-Motion Data, Vol. 2 using Strong-Motion Datascape Navigator*' was published. This CD is a follow-up to the CD ROM '*Dissemination of European Strong-Motion Data*' released in 2000 and also follows on from the establishment of the '*Internet Site for European Strong-motion Data*' in 2002. This new CD ROM contains corrected acceleration, velocity and displacement time-histories of 462 triaxial strong-motion records from 110 earthquakes and 261 stations in Europe and the Middle East. These records have been corrected using filters whose cut-off frequencies have been individually selected by a consideration of the signal-to-noise ratio. In addition, it also contains linear elastic response spectra, inelastic (elastoplastic) constant strength spectra and inelastic (elastoplastic) constant ductility spectra. The associated earthquake, station and waveform parameters of these 462 records are also present on the CD ROM so that full use can be made of the data. These data were selected using strict selection criteria and so they are the Eurasian data for which most information exists. All of these data can be viewed and analyzed using the Strong-Motion Datascape Navigator (SMDN) software written specially for this project and provided on this CD ROM. SMDN allows you to export the time-histories, spectra and the associated parameters of records to ASCII files in a standard format. SMDN can also be used to view and analyze data downloaded from the Internet Site for European Strong-motion Data ([www.isesd.cv.ic.ac.uk](http://www.isesd.cv.ic.ac.uk))

### TG3 on "Structural Vulnerability and Earthquake Scenario"

*Coordinator: Prof. Mauro Dolce, Italy*

No activity was reported

### TG4 on "Vertical Earthquake Component"

*Coordinator: Prof. Panayotis Carydis, Greece*

The task group was established during the Second Meeting of the EC upon the proposal submitted by Prof. Carydis.

### TG5 on "Seismic Isolation of Structures"

*Coordinator: Prof. Alessandro Martelli, Italy*

The TG participated in the organisation of;

*8th World Seminar on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, October 6-10, 2003, Yerevan, Armenia*

and is involved with the organisation of;

*9th World Seminar on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, June 13-16, 2005, Kobe, Japan.*

### TG6 on "Earthquake Geotechnical Engineering and Microzonation"

*Coordinator: Atilla Ansal (Turkey)*

Even though it was not directly related to the TG activities, the Coordinator along with some of the members of the TG has published a joint book titled as "*Recent Developments in Geotechnical Earthquake Engineering and Microzonation*" by Kluwer Academic Press. No other activity was reported.

### TG8 on "Seismic Behaviour of Irregular and Complex Structures"

*Coordinator: Prof. Victor Rutenberg, Israel*

TG has organised their third workshop during 16-17 September 2002 in Firenze, ITALY, and is planning to have their fourth Workshop during 26-27 August 2005 in Thessaloniki, GREECE

### TG9 on "Repair and Strengthening"

*Coordinator: Prof. Alberto Castellani, Italy*

No activity was reported.

### TG10 on "Historical Buildings"

*Coordinator: Prof. Costas Syrmakizis*

There are plans to organise a seminar jointly with the Technical Committee T19 on "Preservation of Historic Sites / Monuments" of International Society of Soil Mechanics and Geotechnical Engineering.

## **BULLETIN OF EARTHQUAKE ENGINEERING**

The first volume has been completed in early 2004. The all issues of Vol. 2 are in the publication process. Up to the present 47 manuscripts were received. 28 manuscripts have been reviewed and accepted for publication. 15 manuscripts are published in Volume 1 and 13 manuscripts are in the process of publication Volume 2. For the first time in BEE a discussion and reply will be published in the second issue of Volume 2. 13 manuscripts are in the review stage and 6 were declined and 1 was withdrawn. There is a proposal to publish two special issues in 2005 or 2006 concerning the outcome of Risk-Ue project.

## **BOOK SERIES ON GEOTECHNICAL, GEOLOGICAL AND EARTHQUAKE ENGINEERING**

A new book series was established by Kluwer and the first book of the series "*Recent Advances in Earthquake Geotechnical Engineering and Microzonation*" is published. Even though this activity is

established independent of EAEE, in the long run it can be an official book series of EAEE to publish the conference proceedings as well a book that may come out of TGs.

### **BULLETIN**

The Bulletins have been prepared by the Secretary General with financial support from the Turkish Earthquake Foundation and Turkish Chamber of Civil Engineers for printing and postage expenses.

The Central Office published only one and the last issue of the EAEE Bulletin, Vol. 21 (December 2002). This issue was printed as 1000 copies and were distributed to all Delegates, TG and WG Coordinators and Conveners, major earthquake related organisations abroad, all Delegates of the International Society for Earthquake Engineering and all Titular Members of the ESC. In order to increase the availability and for easier downloading of the EAEE Bulletins, pdf version of this issue was also inserted in EAEE web pages.

### **INTERNET - WEB**

The Internet-EAEE web Pages that were created in 1995 were updated continuously.

The main column is composed of different pages containing:

- *the Aims of EAEE, the Statutes of EAEE, the history, all the published Bulletins,*
- *the Rules for EAEE Task Groups,*
- *the Guidelines for EAEE European Regional Earthquake Engineering Seminars,*
- *the Guidelines for EAEE European Conferences on Earthquake Engineering,*
- *all the Minutes of the Executive Committee Meetings,*
- *the names and addresses of all the Executive Committee Members,*
- *the names and addresses of other Member Associations and Delegates,*
- *information concerning the activities of Working and Task Groups,*
- *News about ongoing activities, Issues and Views,*
- *13th European Conference on Earthquake Engineering,*
- *Transnational access to research infrastructures,*
- *European School of Advanced Studies in Reduction of Seismic Risk,*
- *Marie Curie Training Centres,*
- *Forthcoming Events.*
- *Bulletin of Earthquake Engineering*

Links were established with the Home Pages of the European Seismological Commission (ESC) and of the International Association of Seismology and Physics of Earth's Interior (IASPEI).

The left column is used for displaying most recent activities like pdf version of the latest issue of the Bulletin, latest letter forwarded to EAEE delegates, etc.

The present address of the EAEE Web Pages is: <http://www.eaee.org>

### **OTHERS**

Information concerning EAEE and its activities were sent to following organisations:

- *Union of International Organisation for Who's Who in International Organisations and for Yearbook of International Organisations,*
- *American Association for Engineering Societies for International Directory of Engineering Societies and Related Organisations,*

Atilla Ansal  
Secretary General