



EUROPEAN ASSOCIATION FOR EARTHQUAKE ENGINEERING

Central Office: Boğaziçi University, Kandilli Observatory and Earthquake Research Institute, Çengelköy, Istanbul, 34684 Turkey

Telephone: 90-216 332 5530

E-mail: ansal @ boun.edu.tr

Home Page: <http://www.eage.org>

President: Atilla Ansal (Turkey), e-mail: ozyegin.edu.tr
Vice-Presidents: Mihail Garevski (Republic of Macedonia), e-mail: garevski@pluto.iziis.ukim.edu.mk
Kyriazis Pitilakis (Greece) e-mail: kpitilak@civil.auth.gr
Secretary-General: Andreas J. Kappos (UK), e-mail: Andreas.Kappos.1@city.ac.uk
Secretary: Alain Pecker (France) e-mail: alain.pecker@orange.fr
Treasurer: Christoph Butenweg (Germany) e-mail: butenweg@lbb.rwth-aachen.de
Executive Committee: Mauro Dolce (Italy), Zygmunt Lubkowski (UK), Carlos S. Oliveira (Portugal)
Honorary Members: Drazen Anicic (Croatia), Peter Fajfar (Slovenia), Ali Akbar Moinfar (Iran), Bozidar Pavicevic (Montenegro), Horea Sandi (Romania)
Audit Committee: Emil Sever Georgescu (Romania), Rudolf Heuer (Austria)

MINUTES OF THE EXECUTIVE COMMITTEE MEETING

Number: 2 Date: 11 July 2015 Place: Cambridge, UK

Attendance:

Atilla Ansal, President

Mihail Garevski, Vice President

Kyriazis Pitilakis, Vice President

Andreas Kappos, Secretary General

Alain Pecker, Secretary

Christoph Butenweg, Treasurer

Zygmunt Lubkowski

Carlos Oliveira

Maria José Jiménez, ESC Representative

Apologies:

Mauro Dolce

The second meeting of the Executive Committee (ExCo) of the European Association for Earthquake Engineering for 2014-2018 period was held in Cambridge, UK on Saturday 11 July 2015 in the premises of St Catharine's College, between 10:00 and 14:30. The Executive Committee meeting was chaired by the President.

Agenda:

1. *President's report*
2. *Central Office activities for 2014-2015 term*
3. *Secretary General's report*
4. *Task Groups activities by A. Pecker*
5. *Report of the EAGE representative to the ESC*
6. *Iranian EEA application for EAGE Membership*
7. *Promotion of Earthquake Engineering in Europe*
8. *Bulletin of Earthquake Engineering and GGEE Book Series*
9. *Date of the next meeting*
10. *Miscellaneous*

Prior to opening the agenda the Secretary General (SG) welcomed all participants and expressed the thanks of the ExCo to Dr M. De Jong (from Cambridge University) who kindly arranged for the booking of the room where the meeting is held.

Item 1: The President's report was presented by Prof. Ansal and is attached as part of Annex 1 herein.

There were no matters arising from the report.

Item 2: As the Central Office is located in Istanbul, its activities are coordinated by the President, rather than the SG. The President presented Central Office activities report for the 2014-2015 term; the document is attached as part of Annex 1 herein.

There were no matters arising from the report.

Item 3: The Secretary General presented his activities report for the period from Sep. 2014 to June 2015; the document is attached as Annex 2 herein.

There was a brief discussion regarding the workshop *Earthquake and Induced Multi-Risk Early Warning and Rapid Response* organised in Luxemburg (18-20 November 2015), jointly with the ESC; it was agreed that the Central office that has a full email list of the EAEE member will send to all of them an email notifying the extension of the deadline for paper submission.

With regard to the Ambraseys Distinguished Lecture, it was decided to keep essentially the same committee i.e. A Ansal, A Kappos, M Koller, A Pecker, with MJ Jiménez replacing D Slejko on the ESC side. The next lecture is expected to be delivered at the ESC General Assembly in Trieste (Sep. 2016).

Item 4: The Secretary Prof. Pecker presented the report of WG activities for the period from Sep. 2014 to June 2015. The document is attached as Annex 3 herein.

Each WG's activities were discussed at the ExCo meeting and the following decisions were made:

- WG2 should make an effort to not duplicate what is done, or will be done, elsewhere and is expected to take advantage of the EPOS programme, the detailed scope of which will be defined in approximately one year. The ExCo suggests to WG2 to reorient its activities towards specific aspects not fully treated in recent or ongoing EU projects.
- It has been decided that WG3 should not enter the political arena by promoting issues such as funding by the EU of retrofit programmes for structures and should rather do lobbying to increase funding for research in earthquake engineering. In view of Mario Lopes' decision to resign from the role of coordinator in case the policy aspect is not included as one of its key objectives, the ExCo asks Mauro Dolce to propose a co-coordinator and redefine the scope of this WG, which, in its present form, is too general. Also, a membership list should be provided in the near future; Mario Lopes has indicated he wants to remain a WG3 member.
- The two WG coordinators (Garevski, Dolce) are asked to produce a membership list and list of activities by the end of 2015.
- In view of the strong interrelationship of WG6 and [TC203 \(of ISSMGE\)](#), it has been decided that WG6 should primarily focus on disseminating the outcomes of TC2036; moreover, it should reorient its activities towards assistance to the industry. Given the fact that within the next 2 years a new version of Eurocode 8 – Part 5 (geotechnical part) will be drafted it has been decided that WG6 could focus on writing background documents for EC8-Part 5 and possible guidelines for relevant topics currently not covered by the code and the way the pertinent literature should be used. To achieve this goal the members of WG6 should preferably come primarily from the industry. The coordinators are asked to propose a new membership list within the next 6 months.

- It was decided to broaden the scope of WG7 and rename it as "*Major experimental facilities for earthquake engineering*" in order to include other types of testing facilities such as centrifuges. Alain Pecker will liaise with Adam Crew to discuss this aspect and activate WG7; a co-coordinator should probably be chosen and the membership list should be soon finalised.
- The work done by WG8 is fully in line with the objectives of EAEE WGs; however the number of members is far too large. During the last ExCo meeting in Istanbul it was suggested that the number of members should not exceed around 20. The coordinator is therefore asked to compile a list of the most active members and a complementary list of corresponding members (example of such a scheme is [provided by WG11](#)).
- WG9 seems to be on track and is encouraged to continue along the lines outlined in the report. It is suggested that, to increase its visibility, they could consider organising seminars in Europe on the topic of cultural heritage structures.
- No recommendations were put forward for WG 1 and 11.

Item 5: Z. Lubkowski presented his Report as the EAEE representative to the ESC; the document is attached as Annex 4 herein.

MJ Jimenez provided some additional information on forthcoming ESC activities, such as the 35th General Assembly of the ESC that will be held in Trieste, Italy from 5 to 9 September 2016.

Item 6: The SG announced that the Iranian EEA has recently filed an application for EAEE membership and provided a full account of the issue and the associated complications arising from the fact that another organisation (the Iranian Society for Earthquake Engineering, chaired by Dr.Ahmad Naderzadeh) is currently the national representative of Iran at the EAEE, but the new organization (IEEA) is substantially larger and more active.

Following a discussion of the issue the ExCo has seen positively the application of the IEEA, given that one of our key goals is to increase the membership of the Association and the engagement of its members. However, the practice in the EAEE for replacing an existing member is based on obtaining the broadest consensus possible, hence it was decided to contact again the current representative of Iran Dr Naderzadeh, asking him to indicate his consent of the replacement but also making clear that if he does not respond in the near future we will consider this as an indication of him not having any objections.

Post-meeting note: The Secretary General has been contacted by Dr Naderzadeh, who indicated that he has been discussing the matter with others and will let us know about his decision very soon.

Item 7: As mentioned under item 4, the ExCo decided that we should not enter the political arena by promoting issues such as funding by the EU of retrofit programmes for structures and should rather focus on lobbying to increase funding for scientific research in earthquake engineering. In this respect the following were decided:

- The ExCo sees positively the effort to promote earthquake engineering research in Europe, jointly with the ESC who is our natural ally. For this effort to be effective and meaningful an agenda (i.e. a research policy document) is necessary that will also serve as a tool in contacting key players in the field (see next point). The existing documents like the 2007 '*Earthquake risk reduction in the European Union*' are useful but outdated, while the most recent one (2014) sent to the ExCo by K Pitilakis is a better basis for our own agenda. It was decided to ask Pitilakis (in cooperation with A Pecker and M Dolce who was involved in drafting the 2007 document) to prepare in the near future such an updated document; resilience and economic aspects were identified as issues that should be emphasised in this document, which will be approved by the ExCo by e-ballot and be used as a basis for the contacts that will follow.

- In promoting earthquake engineering research in Europe, it is important to contact directly the key people involved; in this respect it was decided to arrange meetings with the EU Commissioner for Research (Carlos Moedas) as well as the leaders of the [European Construction Technology Platform](#) (ECTP). Our Portuguese colleagues will assist in arranging the former meeting, while Alain Pecker and María-José Jiménez will try to contact *Bouygues* and *Soletanche-Bachy*, and *Dragados*, respectively, in connection to arranging the latter meeting.

Item 8: Z. The President presented his report on the *Bulletin of Earthquake Engineering and GSEE Book Series*; the document is attached as the last part of Annex 1 herein.

The ExCo has expressed its satisfaction on the successful running of the Bulletin, whose impact keeps increasing and is highly rated in the field (see details at the end of the SG report) and congratulated the Editor and the assoc. editors (a number of whom come from the ExCo itself).

Item 9: The next meeting of the ExCo was provisionally scheduled for Sunday the 4th of September 2016 in Trieste, immediately before the ESC General Assembly.

MJ Jimenez will liaise with the ESC organisers of the General Assembly with a view to booking a room in the venue of the GA for the EAEE meeting, which will be followed by the joint EAEE-ESC meeting.

Item 10: K Pitilakis reported on the progress in the organisation of the 16ECCE, i.e.

- the first release of the web page and portal is scheduled for the fall this year (October 2015)
- ExCo members will be contacted to provide ideas for the different committees
- it is very important to start from now contacting potential sponsors; all members of the ExCo are expected to support this action.

The meeting ended with the thanks of the President and the SG to all participating members.

Andreas J. Kappos
Secretary General

Annex 1

President's and Central Office activities report for Sep. 2014- July 2015

SUMMARY NUMBERS FOR 2ECEES

Number of abstracts:.....	1866;
Number of participants	1431
Total number of registered participants:.....	1217
Number of participants listed that did not come:.....	158
Number of students (registered):	224 Excluding 25 YSETC
We had 138 sessions:	65 EAEE, 35 ESC, 38 Special Sessions
Oral Presentations:	345 EAEE, 180 ESC, 230 Special Sessions

ORAL PRESENTATION

Monday 25 August:	124 out of 143
Tuesday 26 August:	143 out of 153
Wednesday 27 August:	145 out of 162
Thursday 28 August.....	156 out of 172
Average:	568/630 = 90 %

POSTER PRESENTATION

Monday 25 August:	123 out of 202
Tuesday 26 August:	74 out of 198
Wednesday 27 August:.....	128 out of 202
Average:.....	325/602 =54%
Keynotes:.....	13 total 5 joint 4 EAEE and 4ESC
Theme Lecturers:	26 EAEE (25), 14 ESC (12)

GENERAL

The main activities of the Central Office during the past 10 months in the sequential order were:

- Drafting the Minutes of (a) Last Executive Committee Meeting for the 2010-2014 term; (b) EAEE Association Council; (c) EAEE General Assembly. After the approval of the Executive Committee, the minutes were forwarded to all the Executive Committee Members, National Delegates, Honorary Members, the representative of ESC. They were also inserted in EAEE web pages.
- The EAEE income and expenditures for 2014 were audited in March 2015 by an officially approved audit company. The Annual Activity and Audit Reports (in Turkish) for 2014 were submitted to the Istanbul Government Authorities. EAEE is required as a registered association to submit Annual Activity and Audit reports until the end of April. During the 2014 Annual Report Submission, the authorities were informed concerning the changes in the Executive Committee.

The President participated:

To represent EAEE and to attend technical sessions and to promote special issues for BEE and new books for the GGEE book series. He made brief presentations about the EAEE and about Working Group activities in some of these meetings.

- 18-19 October 2014, Opole, Poland, "Seventh European Workshop on the Seismic Behaviour of Irregular and Complex Structure"
- 23-25 October 2014, Burgas, Bulgaria, Progress Meeting for Black Sea Basin 2007-2013 project "A Scientific Network for Earthquake, Landslide and Flood Hazard Prevention"
- 22-23 November 2014, Algiers, Algiers, "International Fair of Public Works, Side Conference"
- 28-31 January 2015, Baku, Azerbaijan, "Educational seminar on Soil Dynamics and Site Response Analysis"
- 30 March-3 April 2015, Abu Dhabi, Training Program in NCMS Abu Dhabi on Site Amplification, Liquefaction, and Microzonation
- 7-9 May 2015, Thessaloniki, Greece, Progress Meeting for Black Sea Basin 2007-2013 project "A Scientific Network for Earthquake, Landslide and Flood Hazard Prevention"
- 2-3 July 2015, Aveiro, Portugal, InfraRisk- Doctoral Programme, Invited Speaker
- 9-10 July 2015, Cambridge; UK, SECED 2015 Conference, Earthquake Risk and Engineering towards a Resilient World

MEMBERSHIP

SECED decided to adopt the proposal (15€/member) and subscribed its members for 2015 respectively as subscribing EAEE members. 256 individual members 89 corporate representatives.

BALANCE TOTALS FOR THE YEARS OF 2014-2015

BALANCE FOR SEPTEMBER 2014	30,467.85 €	
	INCOME	EXPENDITURE
Membership fees from		
<i>National Members</i>		
<i>National Members (BEE Subscribed Members)</i>	498.00 €	
<i>Corporate Members</i>	250.00 €	
<i>Individual Members - Electronic Subs.</i>	926.37 €	
<i>Individual Members - Paper Copy Subs.</i>	98.00 €	
<i>Individual Members - Electronic+Paper Copy Subs.</i>	245.00 €	
Office Expenditures		
<i>Auditing Cost (2013)</i>		499.64 €
<i>Ambraseys Lecture Award</i>		207.52 €
<i>Ex. Com. Meeting Expense</i>		
<i>Rate for bank account and Interest</i>		39.50 €
SPRINGER		
<i>Hard Copy</i>		2,316.00 €
<i>Electronic (2014)</i>		1,250.00 €
SUM	32,485.22 €	4,312.66 €
DIFFERENCE		28,172.56 €
SPRINGER DEBT (Hardcopy + Electronic 2015)		1,250.00 €
BALANCE FOR JULY 2015		26,922.56 €

BULLETIN OF EARTHQUAKE ENGINEERING (BEE)

The impact factors for 2014 increased significantly from 1.368 in 2013 to 1.884. BEE ranked second after Earthquake Engineering and Structural Dynamics among the six earthquake engineering journals (Earthquake Engineering and Structural Dynamics, Bulletin of Earthquake Engineering, Earthquake Spectra, Soil Dynamics and Earthquake Engineering, Journal of Earthquake Engineering, Earthquake Engineering and Engineering Vibration).

Starting as of 2015, the Bulletin of Earthquake Engineering became monthly, publishing 12 issues per year. Eight new Associate Editors (Nuray Aydınoglu, Michael C. Constantinou, Dina D'Ayala, Michael Fardis, Andreas J Kappos, Marco Mucciarelli, Carlos Sousa Oliveira, Alain Pecker) were appointed with 17 Editorial Board Members (Pierre-Yves Bard, Katrin Beyer, Philippe Bisch, Alberto Castellani, Mauro Dolce, John Douglas, Peter Fajfar, Mihail Garevski, George Gazetas, Roger M.V. Musson, Roberto Paolucci, Rui Pinho, Kyriazis Pitilakis, Erdal Şafak, Ragnar Sigbjörnsson, Dario Slejko, Robin Spence, Miha Tomazevic). Six members from the Editorial Board were retired (Rainer Flesch, Faruk Karadoğan, Martin Koller, Alberto Marcellini, Franco Braga, Costas Syrmakizis).

During the past years the number of submitted manuscripts has increased continuously to 336 in 2014. It is estimated that this number may go up to 400 in 2015 considering that 192 manuscripts were already submitted to BEE by the end of June 2015.

The distribution of manuscripts per associate editors Nuray Aydınoglu (10), Michael C. Constantinou (13), Dina D'Ayala (10), Michael Fardis (16), Andreas J Kappos (14), Marco Mucciarelli (10), Carlos S. Oliveira (11), Alain Pecker (9).

With respect to printed manuscripts; in 2010 we started to publish six issues and the number of published manuscript increased to 133 in 2014. It is estimated based on the 113 manuscript published in 8 issues so far that the number of published manuscripts will be in the order of 170 for 2015.

3 (6) joint special issues during the 2014 and 2 special issue during 2015 on:

1. In memory of Nicholas Ambraseys; Guest Editors: John Douglas & Atilla Ansal (V12N1)
2. A new generation of ground-motion models for Europe and the Middle East; Guest Editor: John Douglas (V12N1)
3. Performance Based Design in Earthquake Geotechnical Engineering; Guest Editor: Michele Maugeri (V12N3)
4. Seismic microzonation of Palatine hill, Roman Forum and Coliseum Archaeological Area, Guest Editors: Massimiliano Moscatelli, Alessandro Pagliaroli, Gian Paolo Cavinato, Sergio Castenetto, Giuseppe Naso (V12N3)
5. 2011 Lorca Earthquake; Guest Editors: Belén Benito Oterino and Enrique Alarcón (V12N5)
6. The earthquake sequence that struck Emilia region, Italy, in May 2012, Guest Editors: Marco Mucciarelli and Domenico Liberatore (V12N5)
7. "PERPETUATE procedure for the PBA of cultural heritage assets"; Guest Editors: Dina D' Ayala & Sergio Lagomarsino (V13N1)
8. Recent Advances in Earthquake Engineering and Structural Dynamics 2013 (VEESD 2013) Guest Editors: Christoph Adam and Rainer Flesch (V13N4)

There are three Special issues in preparation:

1. Post-Earthquake Assessment; Guest Editors: Mauro Dolce, Gaetano Manfredi, Ken Elwood
2. The European Project UPStrat-MAFA; Guest Editors: Gaetano Zonno, Carlos S. Oliveira, Mariano García Fernández and Ragnar Sigbjörnsson
3. Large Scale and On-Site Structural Testing for Seismic Performance Assessment; Guest Editors: Alper Ilki, Khalid Mosalam, Koichi Kusunoki, Michael Fardis
4. From global to regional and country-based seismic hazard modeling - A sample case: Global hazard models, Earthquake Model of the Middle East (EMME) and Revision of Turkish Seismic Hazard Map projects; Guest Editor: Sinan Akkar
5. Strategic applications of real-time risk mitigation strategies and tools: case studies and lessons learned in REAKT; Guest Editors: Carlo Cauzzi, Paolo Gasparini, Stefan Wiemer, Jochen Zschau
6. Nepal Earthquake; Guest Editors: Sean Wilkinson

BOOK SERIES ON GEOTECHNICAL, GEOLOGICAL AND EARTHQUAKE ENGINEERING

Even though this activity was established independent of EAEE, in the long run it can be regarded as the official book series of EAEE. This book series would be suitable to publish the conference proceedings as well as the books that may come out of WGs. Springer offers 20% to EAEE Individual Members for this book series.

Published titles:

1. Perspective on European Earthquake Engineering and Seismology Volume 1, Ed.A.Ansal, Volume 34 (2014)
2. Computational Methods, Seismic Protection, Hybrid Testing and Resilience in Earthquake Engineering, A Tribute to the Research Contributions of Prof. Andrei Reinhorn, Eds: Gian Paolo Cimellaro, Satish Nagarajaiah, Sashi K. Kunnath Volume 33 (2014)
3. Performance-Based Seismic Engineering, Vision for an Earthquake Resilient Society, Eds: Matej Fischinger and Bozidar Stojadinovic, Volume 32 (2014)

4. SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities, Methodology and Applications; Eds: K. Pitilakis, P. Franchin, B. Khazai, H. Wenzel; Volume 31 (2014)
5. Practical Guide to Geo-Engineering, With Equations, Tables, Graphs and Check Lists, Author: Milutin Srbulov, Volume 29 (2014)
6. Earthquake Geotechnical Engineering Design, Eds: Michele Maugeri, Claudio Soccodato, Volume 28 (2014)
7. SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk, Buildings, Lifelines, Transportation Networks and Critical Facilities; Eds: K. Pitilakis, H. Crowley, A.M. Kaynia; Volume 27 (2014)
8. Seismic Evaluation and Rehabilitation of Structures, Alper Ilki, Michael N. Fardis, Volume 26 (2014)
9. Earthquake-Response Analysis of Ground, author: Nozomu Yoshida, 2015
10. Experimental Research in Earthquake Engineering, Fabio Taucer, Roberta Apostolska, 2015
11. Perspective on Earthquake Geotechnical Engineering, Eds. A.Ansal, M.Sakr
12. Perspectives on European Earthquake Engineering and Seismology, Volume 2, Ed: A.Ansal
13. Computational Methods, Seismic Protection, Hybrid Testing and Resilience in Earthquake Engineering, Gian Paolo Cimellaro, Satish Nagarajaiah, Sashi K. Kunnath, 2015

INTERNET - WEB

The Internet-EAEE web pages that were created in 1995 were updated continuously. As suggested by ExCom Members, the Central Office searched for available options. After some deliberations, a new web page design was drafted by a professional designer. The new web pages are in operation since the beginning of 2013. The present address of the EAEE Web Pages still is: <http://www.eaee.org>. The web pages are being managed by the Central Office.

Atilla Ansal & Gökçe Tönük

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Annex 2

Secretary General's activities report for Sep. 2014 – July 2015

SG GENERAL ACTIVITIES

The main activities of the Secretary General in the period since he assumed his duties (29/8/15) were:

- Preparing the minutes of the Sep. 2014 ExCo meeting in Istanbul and circulating them among its members for comments; the final version of the minutes was distributed on 10 Sep. 2014.
- Correspondence with EAEE National Delegates and members, as well as other associations expressing an interest in joining the EAEE (see also item 6 on the agenda). Specific options were discussed with the Cyprus representatives for the Cyprus AEE (formerly the Scientific Technical Chamber of Cyprus, ETEK) to join again the EAEE. The Armenian Association for Earthquake Engineering was also contacted in a similar context.
- Carrying out activities related to the relationships of EAEE with other international associations and initiatives; the entry for the EAEE was updated in the UIA (Union of International Associations) Yearbook in June 2015.
- Coordination of the procedure for the organisation of the ECGS & ESC/EAEE Joint Workshop: Earthquake and Induced Multi-Risk Early Warning and Rapid Response in Luxembourg, between the 18th and the 20th of November 2015.
- Coordination of a preliminary discussion of the issue of promoting to the EU competent authorities the activities related to earthquake engineering and seismic risk mitigation (see item 7 on the agenda)
- Liaison with Secretary A. Pecker for coordinating the activities of the EAEE WGs and requesting their reports (see also item 4 on the agenda)
- Continuous contribution to the *Bulletin of Earthquake Engineering* (see also item 8 on the agenda) in the role of associate editor, since 1/1/15.

Participation of Secretary General to scientific events:

The SG represented the EAEE and attended technical sessions in a number of conferences, workshops, and other scientific/technical events. Wherever he was given the opportunity, he made brief presentations about the EAEE and its Working Group activities.

- ACI (American Concrete Institute) Fall Convention, Washington DC, 26/10/2014 (brief presentation of the EAEE and detailed presentation of EAEE WG11 activities)
- International Conference on Earthquake Engineering and Seismology (IZIIS-50), 12-16 May, 2015 (keynote lecture on "Seismic design of bridges: From Eurocode 8-2 to modern performance-based approaches")
- Conference on Computational Methods in Structural Dynamics and Earthquake Engineering COMPDYN'15, 25 - 27 May 2015 Crete, Greece (addressed Opening ceremony on behalf of the EAEE, keynote lecture on "Full-Range Analysis of the Inelastic Response of Reinforced Concrete Members")

- SECED Conference ‘ Earthquake Risk and Engineering towards a Resilient World’, Cambridge 9-10/7/15; reference was made during the opening ceremony to the EAEE and its links with SECED.

EXECUTIVE COMMITTEE

No postal ballot by the Executive Committee was necessary in this period. However, several issues were discussed by email and the outcome was to include additional items in the agenda of the ExCo meeting.

MEMBERSHIP

Presently EAEE has 195 Individual, 6 Organizational, and 32 National Members. The Central Office will be sending out e-mail letters to all Member Organisations informing them about their unpaid membership dues.

BULLETIN

This will be discussed in a separate report, to be presented by the President (and Editor in Chief of the Bulletin). The SG reported to the committee details of a search on impact factors of Earthquake Engineering journals, whose outcome indicated the BEE is the second ranked in the field, well above the third); the full list is:

1. EESD	2.305
2. Bull. of Erq Engineering	1.884
3. Earthquake Spectra	1.321
4. SDEE	1.215
5. Jnl of Erq Engineering	1.175
6. Erq Eng & Eng Vibrn	0.729
7. Earthquakes & Strs	0.693

Andreas Kappos
10/7/15

Annex 3

Secretary's report on WG activities for 2014-2015 term

1. Current state of WGs: 9 WGs are identified according to last ExCo meeting in Istanbul

WG1 - Future directions for Eurocode 8
 WG2 - Strong Motion Records and for Engineering Applications
 WG3 - Structural Vulnerability and Earthquake Scenario
 WG5 - Seismic Isolation of Structures
 WG6 - Geotechnical Earthquake Engineering
 WG7 - Development of Shaking Table Testing Techniques
 WG8 - Seismic Behaviour of Irregular and Complex Structures
 WG10 - Seismic Aspects of Historical Monument Preservations
 WG11 - Seismic Design, Assessment, and Retrofit of Bridges

2. WG1 - Future directions for Eurocode 8

Coordinator: Edmund Booth

WG1 was established in September 2013. Its objective is to propose ways in which EC8's development should proceed, accounting for a longer timescale than that dictated by the current CEN revision of the Eurocode suite. It will limit itself to proposing broad objectives for EC8 to achieve by 2025; detailed code drafting is beyond its scope.

The membership has expanded since the last report. Two observers have been nominated by JRC Ispra to observe proceedings of the WG.

The current membership is (18 members + 2 observers):

Edmund Booth	Consultant, UK
Michael Fardis	University of Patras, Greece
Peter Fajfar	University of Ljubljana, Slovenia
Alain Pecker	Ecole des Ponts ParisTech, France
Eduardo Carvalho	Gapres, Portugal
Roberto Paolucci	Politecnico di Milano
Timothy Sullivan	University of Pavia, Italy
Helen Crowley	University of Pavia, Italy
Gaetano Manfredi	University of Naples, Italy
Suikai Lu	Consulting Engineer, Austria
Marco Di Ludovico	University of Naples, Italy
Massimo Fragiacomano	University of Sassari, Italy
Matjaž Dolšek	University of Ljubljana, Slovenia
Katrin Beyer	EPFL, Switzerland
Damian Grant	Arup, UK
Hervé Degée	University of Liege, Belgium
Nuray Aydinoglu	Bogazici University, Turkey
Seref Polat	Consultant, Turkey
Fabio Taucer (observer)	JRC, Ispra
Luisa Souza (observer)	JRC, Ispra

Since the last report, WG1 organized a special session at 2ECEES, Istanbul in August 2014, and the 10 papers from this session, all by members of the WG, are freely downloadable from the EAEE website. 13 members of the group held a meeting during the conference; the minutes were prepared by Luisa Souza from JRC Ispra, which is providing some administrative support to the group. 4 of the members met again in January 2015, during an SC8 meeting in London and during

the SECED conference in Cambridge UK in July 2015. During that conference, two papers by WG members, both relevant to the work of WG1, will be presented at a special session on Eurocode 8.

An outline of the final report has been agreed, and authors have been allocated to produce first drafts of most of the sections.

Since January 2015, the group has been rather inactive; it is intended to reactivate it during the second half of 2015. However, it is clear that the original objective of producing a final report by the end of 2015 will not be met, and the target date is now 1st July 2016.

3. WG2 - Strong Motion Records for Engineering Applications **Coordinators: Sinan Akkar, Nikos Theodulidis**

The following activities were originally planned:

1. Collaboration with Orfeus - Working Group 5 that is responsible of integrating accelerometric data in the greater Europe region
2. Preparations for a webpage under EAEE for informing European engineers and researchers about the recent projects, initiatives and tools on accelerometric data.

As seen from the description of the activities during this period, task 2 has been modified.

Activity 1:

A web interface is under development, which hosts the accelerometric data archive of the Kandilli Observatory and Earthquake Research Institute. A search engine operates under the web interface to search accelerometric data with certain seismological (e.g., source-to-site distance, magnitude, soil conditions etc.) and ground-motion intensity parameters (peak ground acceleration, velocity etc.). The web interface also includes some software for ground-motion data processing and spectral calculations. WG2 will use this web page for disseminating its activities, developments in strong-motion databases in Europe and around the globe as well as recently released software on the use of accelerometric data. The web page will be maintained by KOERI and will be operational at the end of September 2015.

Activity 2:

A web interface is under development that hosts a local Vs30 profile database and its application for inference of Vs30 values of various Research laboratories in Greece (Institute of Engineering Seismology & Earthquake Engineering [ITSAK-EPPO], Geophysical Laboratory-Aristotle Univ. Thessaloniki, Civil Engineering Dept.-Democritus Univ. Thrace). This database, although of local interest, may become the triggering point to interconnect similar databases in Europe or to motivate creation of new ones. WG2 may use this web page for disseminating its activities and contribute to exploitation of strong motion data to its full potential by providing site information. The web page will be maintained by ITSAK-EPPO and will be operational at the end of autumn 2015.

Membership list not communicated.

4. WG3 - Earthquake Hazard, Earthquake Risk and Earthquake Scenarios **Coordinators: Mauro Dolce, Mario Lopez**

Proposed activities related to seismic risk mitigation policies, strategies and implementation. Specific topics are:

- Gather studies on the evaluation of seismic risk.
- Characterize the policies of the Members States in what regards seismic risk reduction
- Concrete action proposals to reduce seismic risk
- Promote lobbying activity in the EU Member States and in Brussels to try to put forward the proposals to EU institutions and Governments of other countries

Mario Lopes asked the ExCo for a decision regarding the strategic activities of political lobbying of EAEE: should it be only a technical and scientific one, or should it also include a strategic intervention in the political arena to try to influence political decisions. Based on EAEE statutes, Mauro Dolce considers that seismic risk mitigation activities carried out by EAEE should be limited to scientific aspects (training, dissemination) and that to make lobbying at EU political levels in order to raise the interest of EU Parliament and EC for a significant step ahead in the seismic risk structural mitigation policy, are too ambitious for a scientific association like EAEE.

In Mario's views, the future of WG3 depends on the ExCo decision: in the first option, the existence of WG 3 is not justified; in second option WG 3 can contribute and Mario Lopes suggests that the ExCo replaces him as coordinator by one of its members; nevertheless he will remain member of WG3 and continue to help. As Mauro Dolce is co-coordinator and member of the ExCo Mario's wish is satisfied.

No membership list.

5. WG5 – Seismic Isolation of Structures **Coordinator: Michail Garevski, Mauro Dolce**

New coordinator appointed September 2013.
No report, no membership list yet.

6. WG6 – Geotechnical Earthquake Engineering **Coordinators: Kyriazis Pitilakis, F. Silvestri**

Initial scope was focus on the general topic “site effects- ground motion” and “Microzoning studies”.

WG6 is a peculiar WG as most its activities are overlapping with the activities of TC203 from ISSMGE.

A major part of the work is also done within TC203; for example the conferences i.e. 6ICEGE, PBD in Geotechnical Earthquake Engineering.

The potential activities in the future are:

- Form up a list of representative national delegates
- Follow-up of activities on possible revisions of EC8 triggered with 2006 Athens’ workshop and followed by two more meetings of ERTC12 coordinated by Michele Maugeri (at ECSMGEs in Madrid 2007 and Athens 2011) on such a topic.
- Collect from people in different EU countries publications on few selected outstanding issues, e.g.: soil classification and standard amplification coefficients/spectra; reliability of empirical methods for liquefaction assessment in Europe; upgrading the simplified displacement analyses; refinements of design rules of thumb for SSI problems etc...
- Encourage the development of strong ground motions (mainly arrays and DH arrays) and geotechnical databases at continental scale. To this respect there is a clear connection with the EU

project EPOS coordinated by INGV in which Pitilakis is responsible of the geotechnical/geological and geophysical data bases to complement the seismic data. EPOS is starting in October this year.

Membership list is not available. Some tasks described in the potential activities overlap with WG2.

7. WG7 - Development of Shaking Table Testing Techniques **Coordinator: Adam Crew**

New coordinator appointed in 2014

No report, no membership list yet; however the coordinator has initiated in 2014 contacts with laboratories operating shaking tables, and has already received positive replies.

8. WG8 - Seismic Behaviour of Irregular and Complex Structures **Coordinator: Mario De Stefano**

Recent activities

WG8 has organised the 7th European Workshop on the Seismic Behaviour of Irregular and Complex Structures (7th EWICS) on October 16-18, 2014, in Opole, Poland. Forty participants from 15 countries took part in this successful event. The Workshop was co-organized with the Polish Group of Seismic Engineering affiliated at Polish Academy of Sciences and Faculty of Civil Engineering, Opole University of Technology. The workshops are held every three years starting in 1996 and have already established themselves as a valuable place of exchange.

The 7th European Workshop on the Seismic Behaviour of Irregular and Complex Structures was also attended by the President of EAEE, Prof. Atilla Ansal, who gave an invited lecture on 'Site Specific Earthquake Spectra for Performance Based Design'.

As a result of 7th EWICS, WG8 has also submitted substantial comments for revision of EN1998-1 regarding criteria for plan regularity and pushover analysis for irregular buildings.

Ongoing activities

The main ongoing WG8 activity is editing a book presenting a second collection of the state-of-the-art papers devoted to seismic behaviour of irregular and complex structures and published within the framework of the Springer Geotechnical, Geological and Earthquake Engineering series. The first book appeared in 2013 and it had a positive response. The second volume, to be published soon, is entitled Seismic Behaviour and Design of Irregular and Complex Civil Structures II and it contains 30 reviewed and edited contributions presented during 7th European Workshop on the Seismic Behaviour of Irregular and Complex Structures.

The book consists of thirty chapters and is divided in three parts:

- The first part consists of seven papers referring to seismic engineering and modern seismology issues.
- The second part consists of twenty chapters covering the key area of structural irregularity effects on seismic response.
- The third part consists of three papers devoted to active and passive control of the irregular structures.

Future activities

- Dissemination of the Springer Book "Seismic Behaviour and Design of Irregular and Complex Civil Structures" published in 2013.

- Organization of 8th European Workshop on the Seismic Behaviour of Irregular and Complex Structures, to be held in 2017. Most likely, a WG8 General Meeting will be held in 2016 in order to

carefully define the goals of 8th EWICS and to coordinate ongoing and future activities, particularly creation of EU Horizon 2020 research networks.

- Creation of research networks to participate to national and international (EU) calls, with particular attention to EU Horizon 2020 framework program.

Members list (53 members)

Mario De Stefano (coordinator)

Oren Lavan

Roberto Stimamiglio

Philip Wilkinson

David Chen

Jacky Mazars

Avigdor Rutenberg

Maria Favvata

Salvador Huino

Malkiely Zolkov Adi

Zbigniew Zembaty

Gustavo Ayala

1Andrei Reinhorn

Juan Reyes

Rina Farhat

Robert Levy

Stavros Anagnostopoulos

Gennaro Magliulo

Sanda Koboevic

Asimina Athanatopoulou-Kyriakou

Emad Nsieri

Vittorio Capozzi

Edoardo Marino

Rita Bento

Jack Guo

Dietlinde Köber-Musat

Zamfirescu Dan

Stefano Silvestri

Michele Palermo

Aurelio Ghersi

Nataliya Kapustian

Leszek Jaroszewicz

Stephan Schwarz

Stefania Viti

Valentina Mariani

Faisal Alwely

Waseem Khoury

Yaron Offir

Tomaso Trombetti

Giada Gasparini

Marco Tanganelli

Luo Qifeng

Roman Teisseyre

Grigorios Penelis

Yael Daniel

Gregory MacRae

Abdolreza S. Moghadam

Gian Paolo Cimellaro

Edi Leibovich

George Georgoussis

Kenji Fujii

Rana Roy

Tomaz Falborski

9. WG10 - Seismic Aspects of Historical Monument Preservations

Coordinator: Elizabeth Vintzileou

The first meeting of the WG took place in August 27th 2014, in Istanbul.

Plan of work: The aim of the 5-year work, approved by the members of the WG, is to evaluate the international literature related to the experimental investigation of historic masonry, in order to reach data needed for the assessment of historic structures and for the design of adequate intervention techniques. Thus, the WG is aiming at responding to the international need for regulatory rational documents allowing for interventions to monuments and historic structures.

The first step of the work is to collect the available literature and to classify papers and reports by "chapters", in order to allow for their evaluation. To facilitate the work of the Group, a platform was created (a repository) to which the members can upload publications. This repository is for internal use only. The members of the Group continue to upload publications, whereas three members of the Group (Stefanou, Bal and Parisi) are responsible for the classification of the

publications into the categories agreed upon by the WG. The time devoted to this first step is quite long and the work is expected to be completed by the end of July.

The second step of the work, comprising the preparation of the first draft of (independent) reports by the members of the WG, is expected to start immediately after completion of the first step and be completed by the end of the year. The independent Preliminary Reports will be prepared according to the following table:

1	Five stack compression tests	Vintzileou, Parisi
2	Triplet tests	D'Ayala, Fonseca
3	Diagonal compression	Bento, Parisi
4	Flexural tests/bond wrench	D'Ayala, Fonseca
5	Full scale and scaled models under in-plane shear	Gams, Penna
6	Out-of-plane actions	Cattari
7	In situ tests	Da Porto
8	Building models	Pantazopoulou
9	Vaults	D'Ayala
10	Diaphragms	Stefanou, Vintzileou
11	Subassemblies	Bal

The current membership is (15 members):

Elizabeth Vintzileou (Athens, Greece), Convenor,
 Guido Magenes (Pavia, Italy),
 Andrea Penna (Pavia, Italy),
 Dina d' Ayala (London, UK),
 Carina Fonseca Ferreira (London, UK),
 Francesca da Porto (Pavia, Italy),
 Fulvio Parisi (Napoli, Italy),
 Ihsan Engin Bal (Istanbul, Turkey),
 Ioannis Psycharis (Athens, Greece),
 Ioannis Stefanou (Paris, France),
 Paulo Lourenco (Minho, Portugal),
 Rita Bento (Lisbon, Portugal),
 Serena Cattari (Genoa, Italy),
 Matija Gams (Ljubljana, Slovenia),
 Stavroula Pantazopoulou (Nicosia, Cyprus).

10. WG11 – Seismic Design, Assessment, and Retrofit of Bridges
Coordinators: Andreas Kappos, Anastasios Sextos

Main activities of EAEE WG11

- Meetings – workshops:
 Istanbul Turkey, 26-8-2014 (2ECEES)
 Crete, Greece , 26-5-2015
- Continuous maintenance of the WG website established in spring 2007
- Organization of special sessions in earthquake engineering conferences also jointly with 'sister groups' IABSE WG7 (Seismic), ACI 341

During its 2nd term, the WG focused on establishing close contacts with leading international groups in the field, namely

- ACI 341 Committee (Earthquake-Resistant Concrete Bridges); Exchange of documents, including drafts in progress; Committee chairmen became members of other group
- IABSE Working Group 7 (Earthquake-Resistant Structures). Joint activities include organisation of joint workshops-special sessions, establishment of international awards for research papers on seismic design, assessment, and retrofit of bridges
- Forthcoming activity: Special session in Chile (16WCEE, Jan. 2017) 'PBD design of bridges'

Ongoing activities

Focus of the current work is on the documents to be produced by the 3 Project teams (established in 2012)

Project team 1 (Bridge Monitoring and System Identification) – coordinated by Karakostas

Project team 2 (EC8 Part 2 implementation) – coordinated by Fischinger

Project team 3 (Bridge-specific ground motion selection and generation procedures for design and assessment) – coordinated by Sextos

Membership list (17 members + 13 corresponding members):

Kappos, Andreas (City University London, UK)

Sextos, Anastasios (Aristotle University of Thessaloniki, Greece)

Arede, Antonio (University of Porto, Portugal)

Aydinoglu, Nuray (University of Bosphorus, Turkey)

Cardone, Donatello (University of Basilicata, Italy)

Delgado, Pedro (Polyt. of Viana do Castelo, Portugal)

Dimitrakopoulos, Elias (Hong Kong University of Science & Technology, H.K.)

Fischinger, Matej (University of Ljubljana, Slovenia)

Isakovic, Tatjana (University of Ljubljana, Slovenia)

Karakostas, Christos (ITSAK, Greece)

Kwon, Oh-Sung (University of Toronto, Canada)

Mylonakis, George (Bristol University, UK)

Nuti, Camillo (University of Rome III, Italy)

Pantazopoulou, Stavroula (University of Thrace, Greece)

Pinto, Paolo (University of Rome "La Sapienza", Italy)

Saiidi, Mehdi (Saiid) (University of Nevada Reno, USA)

New member: Kevin Mackie (University C. Florida, ACI 341 chair). Kawashima resigned from the University; he will remain a corresponding member of the WG.

11. Conclusions and recommendations

The progress of WGs has been discussed within the ExCo and the following specific recommendations are addressed to each WG. These recommendations should be considered and implemented by the coordinators during the coming year.

Overall, most of the WGs have been active (with the exception of WG5 and WG7); the replacements of coordinators, in late 2013, and addition of co-coordinators have been mostly successful (e.g. WG8).

- WG1 seems to be on track and is encouraged to continue along the lines outlined in the report.

- WG2 should not duplicate what is done, or will be done, elsewhere and is expected to take advantage of the EPOS programme, the detailed scope of which will be defined in approximately one year, to reorient its scope towards specific aspects not fully treated in EPOS.
- WG3: it has been decided by the ExCo that WG3 should not enter the political arena and should rather do lobbying to raise funds for research in earthquake engineering. In view of Mario Lopes' decision to resign from the role of coordinator, it is recommended to Mauro Dolce to propose a co-coordinator and to redefine the scope of this WG, which, in its present form, is too general. Also, a membership list should be provided in the near future.
- WG5: it is understood that the two coordinators were busy with other activities during last year and that they will produce a membership list and detailed scope by the end of 2015.
- WG6: in view of the strong interrelationship of WG3 and TC203 from ISSMGE, it has been decided that WG6 should focus on disseminating the outcomes of TC203; moreover, it should reorient its activity towards assistance to the industry. Given the fact that within the next 2 years a new version of Eurocode 8 – Part 5 (geotechnical part) will be drafted it has been decided that WG6 could focus on writing background documents for EC8-Part 5 and possible guidelines for topics beyond the code. To achieve this goal the members of WG6 should preferably come primarily from the industry. The coordinators will propose a new membership list within the next 6 months.
- WG7: it is suggested to broaden the scope of this WG and to rename it as "Major experimental facilities for earthquake engineering" in order to include other types of testing facilities such as centrifuges. Alain Pecker will liaise with Adam Crew to discuss this aspect and activate WG7; a co-coordinator should probably be chosen and the membership list should be soon finalised.
- WG8: the work done by WG8 is totally in line with the objectives of WGs: visibility, production of deliverables, website, etc... However the number of members is far too large. During the last ExCo meeting in Istanbul it was suggested that the number of members should not exceed 20±. It is therefore recommended that the coordinator defines a list of the most active members and a complementary list of corresponding members (example of such a scheme is provided by WG11).
- WG9 seems to be on track and is encouraged to continue along the lines outlined in the report. It is suggested that, to increase its visibility, they initiate seminars on the topic in Europe.
- WG11: the work done by WG11 is totally in line with the objectives of WGs: visibility, production of deliverables, website, etc... and it is encouraged to continue along the lines outlined in the report.

Alain Pecker
12/07/2015

Annex 4

Report of the EAEE representative to the ESC

The following points present the highlights of ESC activities over the past year.

- 1) The 26th IUGG General Assembly was held between 22 June and 2 July 2015 in Prague, Czech Republic
- 2) The ESC Annual Executive Committee Meeting was held on Tuesday, 30 June 2015.
- 3) New statutes of the IASPEI are under preparation. They will include individual membership, and each country will need a national representative. Every conference participant will automatically become a member. There will not be a membership fee.
- 4) There was a discussion on the organization of the 35th General Assembly of the ESC in Trieste in 2016.
- 5) A very preliminary estimate of registration fee would be 303 and 136 Euros depending on the number of participants.
- 6) As usual there will be a Young Seismologists' Training Course. It was decided to name the ESC Young Seismologists' Training Course after the late Peter Bormann in order to honour his significant contributions to seismology education over the years.
- 7) It was noted that the 40th anniversary of the Friuli earthquake was going to occur during the next General Assembly year. A special booklet may be published to mark the occasion.
- 8) An award to the best student presentation delivered at the General Assembly was discussed.
- 9) It was agreed on unanimously to commemorate the late Torild van Eck with a permanent memorial session at the ESC General Assemblies.
- 10) The committee were reminded of the ECGS and ESC/EAEE Joint Workshop "Earthquake and Induced Multi-Risk Early Warning and Rapid Response" that will be held in Luxembourg on 18 - 20 November 2015. They were asked to distribute the workshop flyers before the approaching abstract deadline 3 July.
- 11) Ideas about keynote lecturers at the General Assembly should be forwarded as soon as possible.
- 12) Possible host countries for the 2018 General Assembly are Azerbaijan and Malta.
- 13) It was noted that Andreas Kappos, has contacted Stefano Parolai and provided him a document intended to initiate a call for research funding within the Horizon 2020 framework.