EVENT REPORT

SECOND EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING AND SEISMOLOGY (2.ECEES)
Organized by AFAD and Turkish Earthquake Foundation Earthquake Engineering Committee
Co-organized by DPPI SEE
25-29 August 2014, Istanbul/Turkey

1. Topic and Objective of Event and General Information

The conference was Turkey’s contribution to the Disaster Management Training Programme of the Disaster Preparedness and Prevention Initiative for South Eastern Europe (DPPI SEE) for 2014 and was organized by the Republic of Turkey Prime Ministry Disaster and Emergency Management Presidency and Turkish Earthquake Foundation Earthquake Engineering Committee.

The conference was held at İstanbul Congress Center (Lütfi Kirdar Congress Hall) in İstanbul, Turkey.

The official language of the conference was English, simultaneous translation was not provided.

The conference was free of charge for 2 participants per DPPI SEE member country for registration fee, board and lodging, lectures, printed material, social activities according to the programme and transfer from/to the point of arrival to the Dedeman Hotel, İstanbul.

The purpose of the conference was to provide the perfect platform for introducing and discussing Earthquake Engineering and Seismology along with priority issues of global importance.
The scopes and topics of the Second European Conference on Earthquake Engineering and Seismology (2ECEES) are:

1. Seismicity of the European-Mediterranean Area
2. Earthquake Source Physics
3. Earthquake Forecasting and Prediction
4. Engineering Seismology and Seismic Hazard Assessment
5. Acquisition and Analysis of Strong Motion Data
6. Microzonation and Site Effects
7. Geotechnical Earthquake Engineering
8. Earthquake Scenarios, Vulnerability and Loss Assessment Studies
10. Performance-Based Seismic Assessment and Design
11. Seismic Analysis and/or Testing of Structural Elements and/or Systems
12. Seismic Analysis and Design of Tall Buildings
13. Seismic Analysis and Design of Bridges
15. Seismic Analysis and Design of Marine Structures
17. Seismic Analysis and Design of Transportation and Lifeline Systems
18. Seismic Analysis and Design of Active and Passive Structural Control Systems
19. Seismic Performance of Historical Monuments and Structures
20. Earthquake Risk Mitigation Policies and Methodologies
21. Lessons from Recent Earthquakes

2. Lecturers

Lecturers/ keynote speakers were the following:

**EAEE-ESC Joint Keynotes**

1. Robin Spence (Nicholas Ambraseys Lecture): *The full-scale laboratory: the practice of post-earthquake reconnaissance missions and their contribution to earthquake engineering*
2. Shamita Das (Inge Lehmann Lecture): *Supershear earthquake rupture speed*
3. Mustafa Erdik: *Rapid Post-Earthquake Loss Assessment*
4. Mauro Dolce: *Civil Protection Critical Issues in Seismology and Earthquake Engineering Research*
5. Dino Bindi: *From building monitoring to real-time damage forecasting and assessment*

**EAEE Keynotes**

6. Paolo E. Pinto: *Existing buildings: the new Italian provisions for a probabilistic seismic performance assessment*
7. Kyriazis Pitolakis: *Earthquake risk assessment: Certitudes, fallacies, uncertainties and the quest for soundness*
8. Colin Taylor: *A process view of infrastructure system interdependency and resilience*
9. Matej Fischinger: *Seismic response of precast industrial buildings*
ESC Keynotes

10. Marco Mucciarelli: The role of site effects at the boundary between seismology and engineering: lessons from recent earthquakes
11. Adrien Oth: The earthquake source scaling debate: advances, challenges and where we stand today.

EAEE Theme Lecturers and titles

16. Alessandro Martelli: Recent development and application of seismic isolation and energy dissipation and conditions for their correct use
17. Amir Kaynia: Earthquake response of clay and quick clay slopes
18. Andreas Kappos: Performance-based seismic design and assessment of bridges
19. Carlos Sousa Oliveira: Earthquake Risk Reduction: from scenario simulators including systemic interdependency to impact indicators
21. Elizabeth Vintzeleou: Testing of historic masonry structural elements and/or building models
22. Faruk Karadoğan: An algorithm to justify the design of single storey precast structures
23. G. M. Calvi, T.J. Sullivan, D.P. Welch: Simplified Approaches for Seismic Performance Classification
24. George Mylonakis, Raffaelle Di Laora, Alessandro Mandolini: The Role of Pile Diameter on Earthquake-Induced Bending
25. Helen Crowley: Earthquake risk assessment: present shortcomings and future directions
26. Katrin Beyer: Towards performance-based design of modern unreinforced masonry structures
27. K.Önder Çetin: Recent Advances in Seismic Soil Liquefaction Engineering
28. M. De Stefano: Pushover Analysis for Plan Irregular Building Structures
29. Martin Wieland: Seismic hazard and seismic design criteria for large dam projects.
30. Michael Fardis: From the performance- and displacement-based assessment of existing buildings in EC8 to the design of new concrete structures per fib MC2010
31. Nuray Aydinoğlu: Developments in Seismic Design of Tall Buildings
32. Roberto Paolucci: Physics-based earthquake ground shaking scenarios in large urban areas
33. Selçuk Toprak: Seismic Response of Underground Lifeline Systems
34. Sergio Lagomarsino: Seismic Performance of Historical Masonry Structures Through Displacement-Based Assessment Procedures
35. Sinan Akkar: *Recent Developments in Ground Motion Predictive Models and Accelerometric Data Archiving in the Broader European Region*

36. Tatjana Isaković: *Seismic Analysis and Design of Bridges with an Emphasis to Eurocode Standard*

### ESC Theme Lecturers and titles

37. Andrea Rovida: *Archive of historical earthquake data for the European-Mediterranean area*

38. Enrico Lunedei: *Some issues on theory of h/v technique for ambient vibrations*

39. Stefano Solarino: *Increasing the impact of scientific communication in seismology*

40. Christophe Sira: *Macroseismic intervention group: the necessary field observation*

41. Florian Haslinger: *Communicating about seismology: the challenges to provide information to the public’*

42. Alexey Lyubushin: *The field of low-frequency seismic noise at Japan islands before and after Tohoku mega-earthquake on March 11, 2011*

### 3. Participants

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<thead>
<tr>
<th>No.</th>
<th>Name/Surname</th>
<th>Organization</th>
<th>Country</th>
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<tbody>
<tr>
<td>1</td>
<td>Prof. Dr. Beşir ATALAY</td>
<td>Deputy Prime Minister</td>
<td>Turkey</td>
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<td>2</td>
<td>Dr. Fuat OKTAY</td>
<td>AFAD</td>
<td>Turkey</td>
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<td>3</td>
<td>Dr. Murat NURLU</td>
<td>AFAD</td>
<td>Turkey</td>
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<td>4</td>
<td>Filiz Tuba KADİRIOĞLU</td>
<td>AFAD</td>
<td>Turkey</td>
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<td>5</td>
<td>Eren TEPEÜĞÜR</td>
<td>AFAD</td>
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<td>6</td>
<td>Makhule YALIN</td>
<td>AFAD</td>
<td>Turkey</td>
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<td>7</td>
<td>Kerem KUTERDEM</td>
<td>AFAD</td>
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<td>8</td>
<td>Tuğbay KILIÇ</td>
<td>AFAD</td>
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<td>Nazan KILIÇ</td>
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<td>10</td>
<td>Teoman Selçuk KÖKSAL</td>
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<td>11</td>
<td>Ulubey ÇEKEN</td>
<td>AFAD</td>
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<td>12</td>
<td>Bekir Murat TEKİN</td>
<td>AFAD</td>
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<td>Recai Feyiz KARTAL</td>
<td>AFAD</td>
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<td>14</td>
<td>Kenan YANIK</td>
<td>AFAD</td>
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<td>15</td>
<td>Vedat ÖZSARAÇ</td>
<td>AFAD</td>
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<td>16</td>
<td>Murat BEYHAN</td>
<td>AFAD</td>
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<td>17</td>
<td>Sedef KURT</td>
<td>AFAD</td>
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<td>18</td>
<td>Yeliz TEKER</td>
<td>AFAD</td>
<td>Turkey</td>
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<td>19</td>
<td>Ina CECIC</td>
<td>ARSO</td>
<td>Slovenia</td>
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<td>20</td>
<td>Mirnesa SOFTIC</td>
<td>Ministry of Security</td>
<td>Bosnia and Herzegovina</td>
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<td>21</td>
<td>Vesna SIPKA</td>
<td>Hydrometeorological Service of Republic of Surpka</td>
<td>Bosnia and Herzegovina</td>
</tr>
<tr>
<td>22</td>
<td>Dimitar DIMITROV</td>
<td>National Institute of Geophysics, Geodesy and Geograph-BAS</td>
<td>Bulgaria</td>
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4. Social Activities

- 24.08.2014: Welcome dinner and Cocktail for DPPI SEE Participants at Dedemen Hotel
- 25.08.2014: Welcome Cocktail of Conference at ICC
- 27.08.2014: Gala Dinner of Conference at ICC
- 28.08.2014: Dinner for DPPI SEE Participants and evaluation and collaboration meeting at Dedeman Hotel

5. DPPI-SEE Evaluation and Collaboration Meeting

During the conference, beneficial discussion was performed about seismic data exchange between the DPPI-SEE countries. Within this scope; special meeting was held at Dedeman Hotel for DPPI SEE participants in August, 28, 2014. During the meeting, participants who have operated seismic network delivered presentations related to their seismic networks. After the presentations, on behalf of AFAD, Dr. Murat NURLU (Head of Earthquake Department) and Ivana LJUBOJEVIC (Head of DPPI-SEE Secretariat) made evaluation and collaboration speech in respect to the meeting. The following table provides information on topics of each presentation:

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<tr>
<th>No.</th>
<th>Name /Family name</th>
<th>Country</th>
<th>Organization</th>
<th>Presentation Topic</th>
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<tbody>
<tr>
<td>2.</td>
<td>Vesna Sipka</td>
<td>Bosnia and Herzegovina</td>
<td>Republic Hydro meteorological Institute of Republic of Srpska</td>
<td>Earthquake Monitoring and Seismic Network of Republic of Srpska</td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>Country</td>
<td>Institution</td>
<td>Role</td>
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<td>3.</td>
<td>Snjezan Prevolnik</td>
<td>Croatia</td>
<td>Department of Geophysics, Faculty of Science, University of Zagreb</td>
<td>Croatian Seismic Monitoring</td>
</tr>
<tr>
<td>4.</td>
<td>Liliya Dimitrova-Dimitar Dimitrov</td>
<td>Bulgaria</td>
<td>National Institute of Geophysics, Geodesy and Geography</td>
<td>Bulgarian Seismological Network</td>
</tr>
<tr>
<td>5.</td>
<td>Slavica Radovanovic-Branko Dragicevic</td>
<td>Serbia</td>
<td>Seismological Survey of Serbia</td>
<td>Seismic Monitoring in Serbia</td>
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<tr>
<td>6.</td>
<td>Andrej Gosar</td>
<td>Slovenia</td>
<td>Slovenian Environmental Agency of the Republic of Slovenia</td>
<td>Slovenian Seismic Network</td>
</tr>
<tr>
<td>7.</td>
<td>Filiz Tuba Kadirioğlu</td>
<td>Turkey</td>
<td>AFAD</td>
<td>National Seismological Network of Turkey</td>
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<td>8.</td>
<td>Eren Tepeoğlu</td>
<td>Turkey</td>
<td>AFAD</td>
<td>National Strong Motion Network of Turkey</td>
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</table>

**6. Conclusions.**

DPPI SEE representatives have agreed on further strengthening the seismic data exchange with Turkey towards, ideally, establishing a *South Eastern European Seismic Network via AFAD Turkey Earthquake Data Centre*. The relevant official correspondence is to be initiated by AFAD in the days following the conference.