



TUESDAY 19.06.2018

09:00-09:45 **Keynote Lecture | Tu.KL01 | Atilla Ansal:** Implications of site specific response analysis (M1.1_Friends of Music Hall)

09:45-10:05 **Coffee Break**

THEME LECTURES

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.4_Maurice Saltiel B | M2.6_Museum Hall |
|-------------|---|---|--|---|
| 10:05-10:35 | Oreste Bursi Tu.TL01: Structural health monitoring for seismic protection of structure and infrastructure systems | Fabrice Cotton Tu.TL02: Knowns and unknowns of ground-motion variability. Lessons learned from recent analysis and implications for seismic hazard assessment | Gopal Madabhushi Tu.TL03: Large scale testing facilities – use of high gravity centrifuge tests to investigate soil liquefaction phenomena | Aspasia Zerva Tu.TL04: Issues with the use of spatially variable seismic ground motions in engineering applications |

CONCURRENT ORAL SESSIONS

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
|-------------|---|--|---|---|--|------------------------|--|---|
| 10:45-13:00 | Tu.OS01: Seismic Design and Analysis of Reinforced Concrete Buildings (III) | Tu.OS02: Laboratory In-Situ Testing and Structural Health Monitoring of Structures (III) | Tu.OS03: Seismic Hazard Engineering Seismology and Strong Ground Motion (III) | Tu.OS04: Site Effects and Microzonation Studies (III) | Tu.OS05: Risk Assessment of Critical Buildings Infrastructures Utility Systems and Industrial Facilities (III) | Tu.OS06: Soil Dynamics | Tu.OS07: Lifeline Earthquake Engineering | Tu.OS08: Performance-Based Design of Structures (III) |

13:00-14:00 **Lunch Break**

THEME LECTURES

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.4_Maurice Saltiel B | M2.6_Museum Hall |
|-------------|---|---|---|---|
| 14:00-14:30 | Iunio Iervolino Tu.TL05: What seismic risk we do design for when we design buildings? | George Gazetas Tu.TL06: Multistory building frames and shear walls founded on “rocking” spread footings | Sinan Akkar Tu.TL07: Implementation of near-fault forward directivity effects in seismic design codes | Paulo Lourenço Tu.TL08: Technologies for seismic retrofitting and strengthening of earthen and masonry structures: assessment and application |

CONCURRENT ORAL SESSIONS

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
|-------------|--|---|--|--|---|--|--|---|
| 14:40-16:40 | Tu.OS09: Seismic Design and Analysis of Reinforced Concrete Buildings (IV) | Tu.OS10: Laboratory In-Situ Testing and Structural Health Monitoring of Structures (IV) | Tu.OS11: Seismic Hazard Engineering Seismology and Strong Ground Motion (IV) | Tu.OS12: Site Effects and Microzonation Studies (IV) | Tu.OS13: Risk Assessment of Critical Buildings Infrastructures Utility Systems and Industrial Facilities (IV) | Tu.OS14: Geotechnical Earthquake Engineering (I) | Tu.OS15: Active and Passive Structural Control Systems (I) | Tu.OS16: Seismic Retrofit and Strengthening of Structures (I) |

16:40-17:30 **Poster Session - Coffee Break**

SPECIAL SESSIONS

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
|-------------|---|---|--|------------------------|---|--|--|--|
| 17:30-19:00 | SS22. Induced seismicity in Groningen area | SS20. Integrated renovation strategies targeting sustainability, safety and resilience of existing buildings | SS02. Resilient cities - Civil protection | | SS16. Seismic risk and resilience of critical infrastructure | SS17. Religious monumental masonry structures in seismic areas: assessment, retrofit, numerical and experimental evaluation | SS13. Advances and applications of inertial, viscous, and regenerative damping devices for the seismic protection of structures | SS14. Recent advances in earthquake protection technologies |
| up to 19:30 | | | | | | | | |

20:00-22:00 **EAAE General Assembly**

21:30 **Young Researchers Party**



09:00-09:45 **Keynote Lecture | We.KL01 | Michael N. Fardis:** From force- to displacement-based seismic design of concrete structures and beyond (M1.1_Friends of Music Hall)

09:30-13:30 **40 Years Commemoration of Thessaloniki 20/6/1978 Earthquake**

09:45-10:05 **Coffee Break**

| THEME LECTURES | | | |
|---|---|--|---|
| M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.4_Maurice Saltiel B | M2.6_Museum Hall |
| Andreas Kappos We.TL01: Seismic design of bridges: present and future | Raffaele Landolfo We.TL02: Seismic design of steel structures: new trends of research and updates of Eurocode 8 | Roberto Paolucci We.TL03: 3D physics-based numerical simulations: Advantages and current limitations of a new frontier to earthquake ground motion prediction. The Istanbul case study | Tiziana Rossetto We.TL04: Advances in the assessment of buildings subjected to earthquakes and tsunamis |

| CONCURRENT ORAL SESSIONS | | | | | | | |
|---|---|--|--|---|---|---|--|
| M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
| We.OS01: Seismic Design and Analysis of Reinforced Concrete Buildings (V) | We.OS02: Geotechnical Earthquake Engineering (II) | We.OS03: Laboratory In-Situ Testing and Structural Health Monitoring of Structures (V) | We.OS04: Seismic Design and Analysis of Steel Structures (I) | We.OS05: Soil- Foundation-Structure Interaction (III) | We.OS06: Seismic Design and Analysis of Bridges (I) | We.OS07: Active and Passive Structural Control Systems (II) | We.OS08: Seismic Retrofit and Strengthening of Structures (II) |

13:00-14:00 **Lunch Break**

| THEME LECTURES | | | |
|--|--|---|--|
| M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.4_Maurice Saltiel B | M2.6_Museum Hall |
| Philippe Bisch We.TL05: Eurocode 8. Evolution or revolution? | Alper Ilki We.TL06: Seismic performance of a full-scale FRP retrofitted sub-standard RC building | Amir Kaynia We.TL07: Earthquake geotechnics in offshore engineering | Dimitris Beskos We.TL08: Seismic analysis and design of composite steel/concrete building structures involving concrete-filled steel tubular columns |

| CONCURRENT ORAL SESSIONS | | | | | | | |
|--|--|---|---|--|--|--|---|
| M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
| We.OS09: Seismic Design and Analysis of Reinforced Concrete Buildings (VI) | We.OS10: Geotechnical Earthquake Engineering (III) | We.OS11: Seismic Design and Analysis of Masonry Buildings (I) | We.OS12: Seismic Design and Analysis of Steel Structures (II) | We.OS13: Soil- Foundation-Structure Interaction (IV) | We.OS14: Seismic Design and Analysis of Bridges (II) | We.OS15: Active and Passive Structural Control Systems (III) | We.OS16: Seismic Retrofit and Strengthening of Structures (III) |

16:40-17:30 **Poster Session - Coffee Break**

| SPECIAL SESSIONS | | | | | | | |
|---|--|---|---|---|--|---|---|
| M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
| SS03. Development of the 2nd generation Eurocode 8 | SS08. New technologies for seismic-resistant bridge columns | SS19. New trends on evaluation and retrofitting of infilled frames under seismic demands | SS07. Residual risk in earthquakes: are current protection levels appropriate? | SS12. Dynamics and seismic response of rocking and self-centering structures | SS23. Software for loss estimation: developments and applications | SS09. Seismic isolation and energy dissipation in civil structures | SS15. Earthquake repair/retrofit costs |

up to 19:30

20:30 **Gala Dinner**



THURSDAY 21.06.2018

09:00-09:45 **Keynote Lecture | Th.KL01 | Sergio Lagomarsino:** Seismic assessment of existing irregular masonry buildings by nonlinear static and dynamic analyses (M1.1_Friends of Music Hall)

09:45-10:05 **Coffee Break**

THEME LECTURES

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.4_Maurice Saltiel B | M2.6_Museum Hall |
|-------------|--|--|---|---|
| 10:05-10:35 | Božidar Stojadinovic Th.TL01: Resilience-based design of communities | Elizabeth Vintzileou Th.TL02: Unreinforced masonry walls subjected to in-plane shear: From tests to codes and vice versa | Nicos Makris Th.TL03: The dynamics of rocking isolation | Stefano Parolai Th.TL04: Bridging the gap between seismology and engineering: towards real-time damage assessment |

CONCURRENT ORAL SESSIONS

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
|-------------|--|--|--|--|---|---|---|---|
| 10:45-13:00 | Th.OS01: Eurocode 8 and Seismic Design Codes | Th.OS02: Seismic Design and Analysis of Special Structures (I) | Th.OS03: Seismic Design and Analysis of Masonry Buildings (II) | Th.OS04: Seismic Design and Analysis of Steel Structures (III) | Th.OS05: Seismic Performance and Retrofit of Historical Monuments (I) | Th.OS06: Geotechnical Earthquake Engineering (IV) | Th.OS07: Seismic Hazard Engineering Seismology and Strong Ground Motion (V) | Th.OS08: Civil Protection and Earthquake Risk Mitigation Policies and Methodologies (I) |

13:00-14:00 **Lunch Break**

THEME LECTURES

| | M2.1_Aimilios Riadis | M1.1_Friends of Music Hall |
|-------------|---|--|
| 14:00-14:30 | Ioannis Psycharis Th.TL05: Seismic vulnerability of classical monuments | Bijan Khazai Th.TL06: Measuring and managing urban disaster resilience |

CONCURRENT ORAL SESSIONS

| | M1.1_Friends of Music Hall | M2.1_Aimilios Riadis | M2.3_Maurice Saltiel A | M2.4_Maurice Saltiel B | M2.5_Maurice Saltiel C | M2.6_Museum Hall | M2.7_Library Hall | M2.8_CR1 |
|-------------|--|---|---|---|--|---|--|--|
| 14:40-16:40 | Th.OS09: Lessons from Recent Earthquakes | Th.OS10: Seismic Design and Analysis of Special Structures (II) | Th.OS11: Seismic Design and Analysis of Masonry Buildings (III) | Th.OS12: Tsunamis and Risk Assessment of Structures and Infrastructures | Th.OS13: Seismic Performance and Retrofit of Historical Monuments (II) | Th.OS14: Economic and Societal Models for Earthquake Loss Assessment and Mitigation | Th.OS15: Seismic Hazard Engineering Seismology and Strong Ground Motion (VI) | Th.OS16: Civil Protection and Earthquake Risk Mitigation Policies and Methodologies (II) |

16:40-17:30 **Poster Session - Coffee Break**

17:30-18:30 **Closing Ceremony**

18:30-19:00 **Farewell**



FRIDAY 22.06.2018

09:00-18:00 **Technical and other tours |** For more information please see pages 38-40