

## SAMOS (SISAM) Mw 7.0 EARTHQUAKE

(IN MEMORY OF PROF. DR. İBRAHİM DEMİR 1959 – 2021)

### OPENING CEREMONY

Convener: Ercan Yüksel - Director of İTÜ DMİ

09:00-09:10 Welcome

09:10-09:20 İsmail Koyuncu - İTÜ Rector

### STRUCTURAL AND EARTHQUAKE ENGINEERING

Convener: Oğuz Cem Çelik

09:20-10:30 SEISMIC DESIGN AND RETROFIT:  
NEW STRATEGIES AND FUTURE PERSPECTIVES

09:20-09:30 Welcome

09:30-09:50 Fabio Blondini (Politecnico di Milano, Italy)  
*Life-Cycle Seismic Resilience of Bridges and Road Networks*

09:50-10:30 Toru Takeuchi (Tokyo Institute of Technology, Japan)  
*Structural Design Securing Continuous Occupancy*

10:30-10:30 Keh-Chyuan Tsai (National Taiwan University, Taiwan)  
*Seismic Design and Testing of Shear Panel Dampers using Common  
Structural Steel Plates*

10:30-10:50 Ioannis Psycharis (National Technical University of  
Athens, NTUA, Greece)  
*How can We Use Toppled Objects to Draw Conclusions on the Lower  
Threshold of the Ground Acceleration in Places Where There are No  
Recordings?*

10:50-11:10 Hongying Dong (Beijing University of Technology, China)  
*Seismic Behavior of Full-Scale Steel Reinforced Recycled Concrete  
Columns under High Axial Compression Ratio*

11:10-11:20 Break

11:20-11:40 Marina Moretti (National Technical University of Athens,  
NTUA, Greece)  
*Contribution of Infills to the Seismic Performance of Substandard  
Reinforced Concrete Frames*

11:40-12:00 Tatjana Isakovic (University of Ljubljana, Slovenia)  
*Seismic Response of Reinforced Concrete Walls*

12:00-12:20 Kaoshan Dai (Sichuan University, China)  
*Development of Resilient Power Electric Infrastructure with  
Structural Vibration Control Technologies*

12:20-12:40 Mettupalayam Sivaselvan (University at Buffalo, USA)  
*Seismic Response of Interconnection Electrical Substation Equipment*

12:40-13:00 Jerome F. Hajjar (Northeastern University, USA)  
*Seismic Collapse Assessment of Steel and Composite Structures*

13:00-13:50 LUNCH BREAK



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### EARTH SCIENCES

Convener: Tuncay Taymaz

13:50-18:30 SEISMOLOGY, SEISMOTECTONICS, NEOTECTONICS,  
GEDDYNAMICS, TSUNAMIS

13:50-14:00 Welcome

14:00-14:20 Laurent Jolivet (Sorbonne Université, France)  
*Neogene and Active Tectonics in the Eastern Mediterranean:  
Similarities and Differences*

14:20-14:40 Rob Govers (Utrecht University, The Netherlands)  
*Geodynamic Overview of the Aegean Sea Region*

14:40-15:00 Sylvain Barbot (University of Southern California, USA)  
*Connecting Subduction, Extension and Shear Localization Across the  
Aegean Sea and Anatolia*

15:00-15:20 Andreas Fichtner (ETHZ Zurich, Switzerland)  
*Regional Waveform Tomography of the Aegean and Eastern  
Mediterranean Sea Regions*

15:20-15:40 Athanasios Ganas (National Observatory of Athens,  
Greece)  
*Deformation, Strain Patterns and Fault Model of the 30 October 2020  
Mw 7.0 Samos Earthquake, the Aegean Sea*

15:40-16:00 František Gallovič / Jiří Zahradník (Charles University,  
Czech Republic)  
*Earthquake Source Studies in the Aegean and Anatolia*

16:00-16:10 Break

16:10-16:30 Michel Brunauer (University at Buffalo, USA)  
*Resilient Buildings from A Post-Christchurch Earthquake Perspective*

16:30-16:50 Angel Ruiz-Angulo (Institute of Earth Sciences,  
University of Iceland, Iceland)  
*Earthquake-induced Tsunami Simulations in the Aegean Sea*

16:50-17:10 Mehmet Ergin (TÜBİTAK-MAM, Gebze, Turkey)  
*Aftershock Monitoring of the 30 October 2020 Samos-Kuşadası Mw  
7.0 Earthquake, West Turkey*

17:10-17:30 Tuna Eken (Istanbul Technical University, Turkey)  
*Kinematics within Crust-Mantle of Eastern  
Mediterranean and  
Turkey: Geodynamic Implications*

17:30-17:50 Judith M. Conza (Istituto Nazionale di Geofisica e  
Volcanologia, Italy)  
*3D Isotropic P-wave Tomography images Obtained in the Eastern  
Mediterranean Region*

17:50-18:10 Seda Yoşal-Cevikbilien (Istanbul Technical University,  
Turkey)  
*Earthquake Source Modelling and Tsunami Simulations in the Eastern  
Mediterranean Region*

18:10-18:30 Tuncay Taymaz (Istanbul Technical University, Turkey)  
*SUMMARY – Kinematics of the 30 October 2020 Mw 7.0 Neus  
Kuşadası (Samos) Earthquake in the Eastern Aegean Sea: Source  
Characteristics and Dynamic Rupture Simulations*

18:30-18:45 Discussions and Closing Remarks:  
Ercan Yüksel, Tuncay Taymaz, Oğuz Cem Çelik

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