

8 October 2025 Wednesday

OPENING SESSION

MAIN HALL A

10:00 - 10:10	Music Recital
10:10 - 10:45	Opening Speeches
10:45 - 11:15	Prof. Dr. Rifat Yazar Lecture: <i>"Türkiye'nin Deprem Güvenliği Sorunu Çerçevesinde Deprem Yönetmeliği, Yapı Denetim Sistemi ve Yasal Sorumlulukların Genel Değerlendirmesi"</i> Haluk Sucuoğlu
11:15 - 11:30	Break

W1 SESSION

MAIN HALL A

11:30 - 12:00	<i>Keynote Lecture</i> <i>"Earthquake Loss Models for Turkish Insurance Portfolios"</i> Sinan Akkar
12:00 - 12:20	<i>Theme Lecture</i> <i>"Should We Design for Sequential Earthquakes?"</i> Murat Altuğ Erberik
12:20 - 12:35	<i>From Masters</i> <i>"Uzun Periyotlu Deprem Yer Hareketi"</i> Mustafa Erdik
12:35 - 12:50	<i>From Masters</i> <i>"Betonarmenin Doğrusal Olmayan Davranışının Tasarıma Yansıması"</i> Zekai Celep
12:50 - 14:00	Lunch Break

W2 SESSION

MAIN HALL A

14:00 - 14:30	<i>Keynote Lecture</i> <i>"Engineering the Future: How Seismic Risk Models Can Build More Resilient Societies"</i> Helen Crowley
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W3a SESSION

MAIN HALL A

- 14:35-14:50 *"Development of Probabilistic Seismic Risk Assessment Models for Reinforced Concrete Buildings Using the February 6, 2023 Kahramanmaraş Earthquake Data"*
Bekir Oğuz Bartın, Umut Doğan, Taner Yılmaz
- 14:50-15:05 *"Empirical Fragility Curves from Damage Data on Relatively New Low-Rise RC Buildings in Malatya Obtained After 2023 Kahramanmaraş Earthquakes"*
Yigit Berat Kaya, Tolga Cinar, Alper Ilki
- 15:05-15:20 *"Empirical Fragility Functions for Predominant Building Typologies in Türkiye"*
Ufuk Hancılar, Nurullah Açıkgöz
- 15:20-15:35 *"Regional Earthquake Risk Assessment of Bornova District, İzmir"*
Abdullah Niğdelioğlu, Zeynep Tuna Değer, Ertuğrul Taciroğlu
- 15:35-15:50 *"Seismic Risk Assessment for Urban Development: A Case for a City in Kingdom of Saudi Arabia"*
Cüneyt Tüzün, Mine B. Demircioğlu-Tümsa, Miguel Francisco Amaral, Yusuf Batuge, Hadi Chalal, Christian G. Groom, Yasser M. Al-Bogami, Zidan M. Yousef

W3b SESSION

HALL B

- 14:35-14:50 *"Axial Load Behavior of RC Columns Retrofitted with SFRC Plates: Experimental and Numerical Study"*
Omer M. M. Al-Aboosi, Alper Buyukkaragoz
- 14:50-15:05 *"Experimental Investigation of Strengthening Partition Walls with FRCM Type Materials"*
Eyüp Serhan Güven, Cansu Beril Eser, Taha Yasin Altiok, Ali Demir
- 15:05-15:20 *"Innovative Retrofitting Methods to Enhance the Seismic Resilience of Substandard RC Frame School Buildings"*
Ahmet Bal, Selin Koca, Bahadır Özcihan, Oğuz C. Çelik
- 15:20-15:35 *"Experimental Study on the Strengthening of Reinforced Concrete Cantilever Beams with Insufficient Shear Capacity under Cyclic Loads with Mechanical Steel Stitches"*
Youssooufa Mahamadou Sidibe, Yusuf Uysal, Ceyhun Aksoylu, Boğaçhan Başaran, Yasin Onuralp Özkılıç, Musa Hakan Arslan
- 15:35-15:50 *"Flexible Seismic Strengthening Methods for Concrete Frames with Infill Walls: From Research to Practice"*
Arkadiusz Kwiecień, Bernhard Schranz

W3c SESSION

HALL C

- 14:35-14:50 *"Yatay Deprem Etkilerinin Birleştirmesinde İnelastik Hız Spektrumunun Kullanılması: 6 Şubat 2023 Kahramanmaraş Depremleri Örneği (Mw 7.9, 7.8)"*
Oğuz Koz, Asma Yahioai, Oğuz Cem Çelik
- 14:50-15:05 *"2023 Kahramanmaraş Depremleri Sonrası Hatay (Antakya-İskenderun): Yakın-Fay, Zemin Büyütmesi, Basen ve Topografik Etkilerin Değerlendirilmesi"*
İbrahim Can Beziklioğlu, Eren Vuran, Abdullah Can Zülfikar
- 15:05-15:20 *"Balıkesir'de İnşa Edilecek Bir Üretim Tesisi Özelinde Sahaya Özel İvme Spektrumlarının Oluşturulması"*
Sema Tetik, Emel Hacıoğlu Sıkıcı, Serdar Soyöz, Emre Aytulun
- 15:20-15:35 *"Near Field Effects of The February 6, 2023 Kahramanmaraş Earthquake"*
Kemal Beyen
- 15:35-15:50 *"Türkiye Bölgeselleştirilmiş Omurga Yer Hareketi Modelleri"*
Baran Güryuva, Özkan Kale, M. Abdullah Sandıkkaya

W3d SESSION

HALL D

- 14:35-14:50 *"Taban Yalıtımlı Bir Binanın Deprem Davranışının Zaman Frekans Alanında Araştırılması"*
Ahmet Özenir, Kemal Beyen
- 14:50-15:05 *"Sismik İzolasyon Parametrelerinin Optimizasyonuna Yönelik Yeni Bir Yaklaşım"*
Ali Erdem Çerçevik, Osman Sevindik
- 15:05-15:20 *"Sismik İzolatörlü Binaların Analiz ve Tasarımında Kullanılan Yöntemler Üzerine Bir Değerlendirme"*
Ali Ruzi Özüygür
- 15:20-15:35 *"Yakın Fay Etkisindeki Taban İzolasyonlu Yapıda İlave Sönümleyici Elemanlar ile Davranış İyileştirmesi"*
Batuhan Şahin, Ercan Yüksel
- 15:35-15:50 *"Betonarme Bir Binanın U Şekilli Metalik Sönümleyiciler ile Deprem Performansının İyileştirilmesi"*
Hasan Talha Şahin, Kurtuluş Atasever, Oğuz Cem Çelik
- 15:50-16:05 **Break**

W4 SESSION

MAIN HALL A

- 16:05-16:25 *Theme Lecture*
"Improving School Infrastructure Resilience to Earthquakes and Flooding"
Dina D'Ayala
- 16:25 - 16:40 *From Masters*
"Depremlerde Geoteknik Koşulların Önemi"
Atilla Ansal

W5a SESSION

MAIN HALL A

- 16:45 - 17:00 *"Shake Table Investigation of Tube-in-Tube Buckling-Restrained Braces for Seismic Retrofit of Substandard RC Frames"*
Evrin Oyguc, Resat Oyguc, Abdul Hayir, Onur Seker, Bulent Akbas
- 17:00 -17:15 *"Response Control Retrofit of Prefabricated RC Industrial Buildings using Buckling-Restrained Braces (BRBs)"*
Ahmet Bal, Selin Koca, Oğuz C. Çelik
- 17:15 - 17:30 *"Effect of Filament Count in CFRP Fabrics on the Strengthening of Low-Strength Concrete Cylinders"*
Selin Bazancir, Sener Kolemenoglu, M. Melike Onay, Alper Ilki
- 17:30 - 17:45 *"The Retrofit of Reinforced Concrete Silo with Outside Post-Tensioned Cables"*
Samet Kılıç
- 17:45 - 18:00 *"Retrofitting of A R/C Structure Using Different Type of Passive Damper Simultaneously"*
Suat Yıldırım, Yeşim Demirci
- 18:00 – 18.15 *"Optimisation-Driven Seismic Retrofitting of Buildings Targeting Multiple Objectives"*
Besim Yukselen, Gianrocco Mucedero, Ricardo Monteiro

W5b SESSION

HALL B

- 16:45 - 17:00 *Seismic Fragility Analysis of 100 m³ Elevated Water Tanks in Türkiye: Assessment of Confinement Effect*
Ali Haydar Bayram, Özkan Hakan, Ramazan Livaoğlu
- 17:00 - 17:15 *Derivation of damage fragility curves for prefabricated structures based on the Kahramanmaraş earthquakes*
Ali Haydar Bayram, Özkan Hakan, Mehmet Ömer Timurağaoğlu, Ramazan Livaoğlu
- 17:15 - 17:30 *"Simulated Design of Turkish RC Frame Buildings for Vulnerability Modelling"*
Serkan Hasanoğlu, Volkan Özsarac, Gerard J. O'Reilly
- 17:30 - 17:45 *"Effects of Different Aftershock Scenarios on the Estimated Earthquake Losses: A Case Study for Istanbul"*
Ömer Faruk Kalaycı, Ufuk Yazgan
- 17:45 - 18:00 *"Progressive Collapse Assessment of a Lightweight Steel Structure under Earthquake and Tsunami Effects"*
Meryem Başaran, Furkan Köslü, Ceren Özer Sözdinler, Ahmet Anıl Dindar

W5c SESSION

HALL C

- 16:45 - 17:00 *"Betonarme Kolonlarda Basınç Kuvveti Üst Sınırı İçin Bir İnceleme"*
Cem Aydemir, Müberra Eser Aydemir, Güray Arslan
- 17:00 - 17:15 *"Betonarme Binalarda Yatay Eleman Süreksizliği"*
Rabia Aydın, Cevdet Şentürk, Oğuzhan Şentürk
- 17:15 - 17:30 *"Betonarme Perdeli Çerçeve Binalarda Farklı Döşeme Tiplerinin Doğrusal Olmayan Davranışa Etkisi"*
Alican Küçükbayram, Bilge Doran
- 17:30 - 17:45 *"Kat Seviyeleri Farklı ve Çekiçleme Potansiyeli Bulunan Betonarme Binalar Arasındaki Gerekli Derz Mesafelerinin Belirlenmesi"*
Mehmet İnel, Eşref Deniz, Muhammet Kamal, Bayram Tanık Çaycı, Ahmet Selim Akbıyık
- 17:45 - 18:00 *"TBDY-2018 göre Tasarlanmış Betonarme Bir Yapının Performansının Doğrusal Olmayan Analizlerle 6 Şubat Depremleri Işığında İncelenmesi"*
Selim Atabaş, Cem Yenidoğan

W5d SESSION

HALL D

- 16:45 - 17:00 *"Yakın Fay Yönelim Etkilerinin Gözlemsel ve Ampirik Değerlendirmeleri ve Sismik Tehlike Uygulama Önerileri"*
Özkan Kale, M. Abdullah Sandikkaya
- 17:00 -17:15 *"Near Field Effects of the February 6, 2023, Kahramanmaraş Earthquake in The Hatay Region"*
Kemal Beyen
- 17:15 - 17:30 *"Investigation of the Effect of Record Scaling And Matching on The Surface Response Spectrum In 1d/2d/3d Analyses"*
Doğukan Alataş, Kadir Emir Güngör, Emre Erbek, Ozan Bilal
- 17:30 - 17:45 *"Effects of Quakes on Earth and Mars on a Tensegric Structure"*
Yusuf Kaya, İbrahim Bay, Yusuf Cengiz Toklu
- 17:45 - 18:00 *"Dynamic Analysis of a High-Rise Building Under Near-Fault and Far-Fault Loads Considering Soil-Structure Interaction"*
Dilek Kaya, Tufan Cakir, Kasif Furkan Ozturk

9 October 2025 Thursday

T1 SESSION

MAIN HALL A

- 09:30 – 10:00 *Keynote Lecture*
“The 15-Year Legacy of the MAST System: Advancing Seismic Resilience through Hybrid Simulation”
Riyadh Al-Mahaidi
- 10:00 - 10:30 *Keynote Lecture*
“Use of Transverse Grid Reinforcement in Earthquake Resistant Structural Elements”
Murat Saatçioğlu
- 10:30 - 10:45 *From Masters*
“Betonarme Yapılar İçin Düktilite Tek Başına Bir Çare Değildir”
Polat Gülkan
- 10:45 - 11:00 *From Masters*
“Geçmişten Günümüze Köprüler, Depremler ve Şartnameler”
Altok Kurşun
- 11:00 - 11:15 *Break*

T2a SESSION

MAIN HALL A

- 11:15 - 11:30 *“Advancing Domain Generalisability in Pre-trained Convolutional Neural Network Models for Post-earthquake Structural Damage Assessments”*
Kaveesh Guwanindu Abeysuriya, Mihaela Anca Ciupala, Seyed Ali Ghorashi, Alper Ilki
- 11:30 - 11:45 *“Effect of Machine Learning Hyperparameters on the Prediction Performance of the Relationship Between Seismic Input Energy and Displacement”*
Furkan Çalim, Ahmet Güllü, Ercan Yüksel
- 11:45 - 12:00 *“A Machine Learning-Assisted Rapid Seismic Risk Assessment Framework: QuakeAssess”*
Utku Karataş, Mert Can Aydemir, Ziya Muderrisoglu, Hasan Özkaynak
- 12:00 - 12:15 *“Feature Selection for Liquefaction Susceptibility Analysis Using Machine Learning Techniques”*
Wisam Elkamali Mohamed, Murat Ergenekon Selçuk, Özgür Yıldız
- 12:15 - 12:30 *“AI-Driven Anomaly Detection and Advanced Signal Processing in Accelerometer Data: A Real-Time Implementation”*
Mohammad Reza Bagerzadeh Karimi

T2b SESSION

HALL B

- 11:15 - 11:30 *"Seismic Performance of Buckling-Restrained Braced Frames under Kahramanmaraş Earthquake Series"*
Fatma Esra Uz, Barış Serin, Mehmet Bakır Bozkurt
- 11:30 - 11:45 *"Seismic Performance Evaluation of an Inclined-Pile Port Pier in High Seismicity: A Detailed Case Study"*
Sami Arı, Onur Kengil, Caner Soydaş, Yasin Fahjan
- 11:45 - 12:00 *"Multi Input Response of a Reinforced Concrete Building During 6th February 2023 Kahramanmaraş Earthquakes"*
Hasret Gökçen Acar, Kemal Beyen
- 12:00 - 12:15 *"Seismic Performance of Reinforced Concrete Frame Systems for Airfield Structures"*
Uğur Yavuz Balcı, Ahmet Anıl Dindar
- 12:15 - 12:30 *"A Comparative Analysis of Türkiye Airport Structures Earthquake Code 2020 and Türkiye Building Earthquake Code 2018"*
Mehmet Sefa Orak

T2c SESSION

HALL C

- 11:15 - 11:30 *"Investigation of the Second-Order Amplification Factor Method on Reinforced Concrete Buildings"*
Hasim Cayir, Cenk Aksoylar, Zekai Celep
- 11:30 - 11:45 *"Selection of Real Ground Motion Record Sets for Both Horizontal and Vertical Time History Analyses"*
Ali Haydar Kayhan, Mehmet Palanci, Ahmet Demir
- 11:45 - 12:00 *"Investigation of the Directivity Effect of the February 6th Kahramanmaraş Earthquakes Using T_p and Ground Motion Prediction Equations"*
Marwan Darwish, Vesile Hatun Akansel, Ebru Harmandar
- 12:00 - 12:15 *"A Preliminary Study on the Damage Potential of Vertical Ground Motion"*
Lütfü İhsan Akpunar, Mehmet Oruç, Ufuk Yazgan
- 12:15 - 12:30 *"Two-Dimensional Nonlinear Seismic Response and Basin-Edge Effect in the Afyonkarahisar Central Basin"*
Kamil Bekir Afacan, Süleyman Gücek

T2d SESSION

HALL D

- 11:15 - 11:30 *"Post-Seismic Investigation on Steel Buildings Following the 6th, 2023 Earthquakes in Türkiye"*
Cem Haydaroğlu, Sedat Konuklu, Büşra Bıçak, Kağan Yemez, Caner Soydaş
- 11:30 - 11:45 *"Evaluation of Seismic Performance of a Steel Building with Lateral Force Resisting System of Chevron Braced Frames: February 6, 2023 Pazarcık–Kahramanmaraş Earthquake"*
Ahmet Alperen Örgen, Cüneyt Vatansever
- 11:45 - 12:00 *"Moment Aktaran Kaynaklı Birleşimlerde Kullanılan Kaynak Yöntemlerinin Birleşim Performansına Etkisi ve Düşük Çevrimli Yorulma Davranışları"*
Hüdaî Kaya, Barlas Özden Çağlayan
- 12:00 - 12:15 *"Yüksek Performanslı Burkulması Önlenmiş Çaprazın Yön Değiştiren Tekrarlı Yükler Altındaki Davranışı ve Modellenmesi"*
Oğuz Koz, Sinem Güntepe, Tolga Önal, Gen Arakawa, Nasiri Ahmadullah, Oğuz Cem Çelik
- 12:15 - 12:30 *"The Investigation of Damping Method Effects on Steel Industrial Chimney Design"*
Samet Kılıç
- 12:30 - 13:30 **Lunch Break**

T3 SESSION

MAIN HALL A

- 13:30 - 14:00 *Keynote Lecture (Online)*
"Lessons offered by the 2023 Kahramanmaraş Earthquake Sequence and Recent Advances in Seismic Soil Liquefaction Engineering"
Kemal Önder Çetin

T4a SESSION

MAIN HALL A

- 14:05 - 14:20 *"Observations from Gölbaşı/Adıyaman After the February 6 Kahramanmaraş Earthquakes"*
Ayhan Gürbüz, Seyhan Fırat, Nihat Sinan Işık, Berna Unutmaz, Kemal Önder Çetin Erhan Tekin, Kaan Yünkül
- 14:20 - 14:35 *"Study of Seismic Soil Structure Interaction for Buried Pipes Below Groundwater Table Using Numerical Analysis"*
Münire Dülger, Mehmet Muhit Berilgen, Havvanur Kılıç
- 14:35 - 14:50 *"SPT-based Liquefaction Triggering and Surface Manifestation Modelling"*
Bilal Umut Ayhan, Makbule Ilgac, Kemal Onder Cetin
- 14:50 - 15:05 *"Liquefaction Risk in the South Coast Soils of Istanbul by Empirical and Nonlinear Numerical Methods"*
Zeynep Kaygusuz, Nazife Özge Fercan

15:05 - 15:20

"Soil-Structure Interaction Model Tests in Liquefiable Soil Using ETILam Soil Container"
M. Batuhan Kocak, Emre Gönülcü, Yaren Birsen-Dizman, Ozan Alver, Esra Ece Eseller-Bayat, M. Salih Babacan

T4b SESSION

HALL B

14:05 - 14:20

"Effect of Non-Structural Construction Elements on The Performance of Buildings Subjected to Seismic Loads"
Afonso Miguel Solak, Amaya Gómez Yábar, Ahmet Erdem Duran

14:20 - 14:35

"Investigation of a School Building After the Kahramanmaraş Earthquake"
Mehmet Şevik, Taha Yasin Altıok, Ali Demir

14:35 - 14:50

"Performance Evaluation of Existing RC Buildings in Malatya"
Furkan Kanlı, Ülgen Mert

14:50 - 15:05

"Comparison of Soft-Story Definition in Various Seismic Design Codes"
Yunus Demirtaş, Özgür Avşar, Ali Bozer, Ahmet Anıl Dindar

15:05 - 15:20

"Modeling the Seismic Performance of Rocking Columns: A Comparative Approach"
Ebru Toy, Ayşe Edinçliler, Eren Uckan

T4c SESSION

HALL C

14:05 - 14:20

"Betonarme Yapılarda Lifli Polimerler ile Güçlendirme Uygulamalarının Deprem Performansı Açısından Parametrik Analizi"
Selin Bazancir, M. Hüseyin Maslak, Beyza Taşkın

14:20 - 14:35

"Prekast Betonarme Yapıların Deprem Performansının İyileştirilmesi için Yeni Nesil Güçlendirme Yöntemlerinin Kullanıldığı Örnek Tasarımlar"
Gökberk Albay, Onur Ertaş, Şevket Özden, Ercan Yüksel

14:35 - 14:50

"Yetersiz Dayanıma Sahip Mevcut Betonarme Binalar için Yenilikçi Sismik Dış İskelet Sisteminin Tam Ölçekli Deneyleri"
İsmail Ozan Demirel, Uğurhan Akyüz, Simone Galano, Andrea Rossi

14:50 - 15:05

"FRCM Türü Kompozitler ile Güçlendirilen Dolgu Duvarlı Betonarme Çerçevelerin Yatay Yükler Altında İncelenmesi"
Şeyma Üner, Hidayet Özdemir

15:05 - 15:20

"Post-Earthquake Damage Assessment and Seismic Retrofit Details of the Viaducts in the Nurdağı Region of the TAG (Tarsus–Adana–Gaziantep) Motorway After the February 6, 2023, Kahramanmaraş Earthquakes"
Cenan Özkaya, Yunus Emre Kıymaz, Gülden Çetin, Fikret Tulumtaş, Merve Gözütok Gündüz

T4d SESSION

HALL D

- 14:05 - 14:20 *"An Analytical Insight into the Effects of Earthquake-Induced Structural Collapse on Roadway Networks"*
Niyazi Özgür Bezgin, Recep Bilal Sıkar
- 14:20 - 14:35 *"Smart City Solutions for Disaster Risk Reduction Plans: The Case of Kırkkale IRAP Implementation"*
Hakan Gündüz, Tamer Eren
- 14:35 - 14:50 *"Evaluating Multi-Hazard Disaster Preparedness in Şile District of Istanbul through Stress Testing"*
Cağlar Goksu, Seda Kundak, Kerem Yavuz Arslanli, Ahmet Atıl Asici, Duygu Kalkanli, Ali Yilmaz, Cihan Mert Sabah, Esra Kalkan Erten, Betül Ergun Konukcu, Ece Ozden Pak
- 14:50 - 15:05 *"UAV-Based 3D Mapping for Post-Disaster Geospatial Data Generation"*
Merve Bayraktar, Burcu Güldür Erkal
- 15:05 - 15:20 *"Beyond the Shake: Confronting Post-Earthquake Fire as a Systemic Urban Hazard"*
Shahin Dashti, Barlas Ozden Caglayan
- 15:20 - 15:35 **Break**

T5 SESSION

MAIN HALL A

- 15:35 - 15:55 *Theme Lecture*
"A new but old problem in the practical structural design, the current discussion on Soft-First Story failure in Japan"
Koichi Kusunoki
- 15:55 - 16:15 *Theme Lecture*
"Advancements in Sismik Risk Değerlendirmesi of existing structures: insights from analytical models and empirical earthquake data"
Gerard O'Reilly

T6a SESSION

MAIN HALL A

- 16:20 - 16:35 *"An Experimental Investigation of the EMI-Based SHM of RC Structure Under Dynamic Loading"*
George M. Sapidis, Maria C. Naoum, Nikos A. Papadopoulos, Maristella E. Voutetaki, Theodoros C. Rousakis
- 16:35 - 16:50 *"Probability of Detection Approach for Reliability of Acoustic Emission Method in Yapı Sağlığı İzleme"*
Sena Tayfur, Mamady Cisse, Ninel Alver
- 16:50 - 17:05 *"Combined Effect of Stiffness Loss at Different Stories on the Natural Periods of Multi-Story Buildings"*
Emre Gönülcü, Ahmet Anıl Dindar, Engin Orakdöğen

- 17:05 - 17:20 *"Vibration characteristic estimation of Bili-Bili Dam, South Sulawesi, Indonesia using microtremor observation"*
Andi Muhamad Pramadi, Andri Moh. Wahyu Laode, Imelda Fitra Nugrani, Miswar Tumpu, Tri Harianto
- 17:20 - 17:35 *"Planda Oluşan Çıkıntılar Sonucu Oluşan Düzensizliklerin Frekans Tanım Alanında İncelenmesi"*
Ahmet Berkay Mostura

T6b SESSION

HALL B

- 16:20 - 16:35 *"Assessing Earthquake Risk in Istanbul Metropolitan Area: A Multi-Scenario Based Analysis"*
Furkan Narlıtepe, Anirudh Rao, Vitor Silva, Helen Crowley
- 16:35 - 16:50 *The Role of 3D Modeling in Enhancing Seismic Risk Management and Disaster Response"*
Mustafa Korkmaz, A. Can Zulfikar, Sevilay Demirkessen Cakir
- 16:50 - 17:05 *"A Comparative Review of Alternative Methods for Addressing Sustainability and Environmental Impact in Earthquake Engineering"*
Mehmet Oruç, Ufuk Yazgan
- 17:05 - 17:20 *"Sustainable Use of Recycled Concrete Aggregate for Pavement Construction: A Comprehensive Review Bridging Laboratory Insights and Field Performance in Post-Earthquake Scenarios"*
Thomas Ndeya Elago, Emre Akmaz, Aşkın Özocak, Ertan Bol
- 17:20 - 17:35 *"A Holistic Earthquake Risk Model and Urban Resilience Strategies for the Marmara Region Based on Innovative Data Generation Methods"*
Ufuk Hancılar, Emin Y. Menteşe, Karin Şeşetyan, Fatma S. Malcıoğlu, Hakan Süleyman, Erdem Özer, Eser Çaktı

T6c SESSION

HALL C

- 16:20 - 16:35 *"Geotechnical Investigations of the Ground Surface Deformations Associated with Local Soil Conditions during the February 6th Kahramanmaraş Earthquakes"*
Mehmet Barış Can Ülker, Mert Aksu, Ali Yaz
- 16:35 - 16:50 *"Cyclic Response of Adapazarı Silts under Unidirectional Cyclic Direct Simple Shear Loading"*
Atasev Dogukan Tasbasi, Moutasem Zarzour, Ahmed Al-Suheyli, Kadir Kocaman, Ertan Bol, Askin Ozocak, Sedat Sert, Kemal Onder Cetin
- 16:50 - 17:05 *"Investigation of the Effects of Local Soil Class on Base Shear Forces and Overturning Moments According to the Türkiye Building Earthquake Code 2018"*
Mustafa Özer, Ali Osman Ateş, Özgün Bozdoğan
- 17:05 - 17:20 *"Numerical Studies to Investigate the Effects of Cushion Density on Seismic Performance of The Retaining Wall"*

Ayşe Edinçliler, Bilge Sultan Demirtaş

17:20 - 17:35

"Investigation of the Effects of Local Soil Class on Base Shear Forces and Overturning Moments According to the Türkiye Building Earthquake Code 2018"
Mustafa Özer, Ali Osman Ateş, Özgün Bozdoğan

T6d SESSION

HALL D

16:20 - 16:35

"Betonarme Binalarda Kısa Kolon Etkileri"
Cevdet Şentürk, Rabia Aydın, Oğuzhan Şentürk

16:35 - 16:50

"Yumuşak Kat Kusuru Bulunan Betonarme Binaların Deprem Enerjisi Sönümleme Kapasiteleri Üzerinde Kolon-Kiriş Dayanım Oranlarının Etkisinin İncelenmesi"
Nurbanu Demirbaş, Hümeysra Şahin

16:50 - 17:05

"Hatay Kırsalındaki İki Katlı Betonarme Bir Yapının Deprem Davranışı ve İyileştirme Varsayımları"
Bekir Özbay, Anıl Özdemir

17:05 - 17:20

"TDY2007 ve TBDY2018 Deprem Yönetmeliklerine Göre Tasarlanan Bir Binanın TBDY2018 Deprem Yönetmeliğine Göre Zaman Tanım Alanında Doğrusal Olmayan Analiz Yöntemi İle Performanslarının Karşılaştırılması"
Abdullah Tokmak, Onur Avcıoğlu, Engin Orakdöğen

17:20 - 17:35

"Development of an Open-Source Digital Image Correlation System for Structural Engineering Application"
Melike Ekiz, Ahu Kömeç

10 October 2025 Friday

F1 SESSION

MAIN HALL A

09:30 – 10:00

Keynote Lecture

*“Challenges for Strengthening Seismic Resilience in Large Urban Areas:
The Case of Mexico City”*

Sergio Alcocer

F2a SESSION

MAIN HALL A

10:05 - 10:20

10:20 - 10:35

10:35 - 10:50

ATC Special Session

10:50 - 11:05

11:05 - 11:20

F2b SESSION

HALL B

10:05 - 10:20

“Deprem Kaynaklı Şev Deformasyonlarının Belirlenmesi”

Sibel Yalçın Tosunoğlu, Sabriye Banu İkizler, Berna Unutmaz

10:20 - 10:35

“Sıvılaşma Tehlike Analizi ve Potansiyel Haritalarının Oluşturulması: Yalova İl Merkezi”

Selçuk Toprak, Furkan Çiçek, Şeyhmus Can Tunç, Erdal Emirhan Övünç, Merve Bingöl, Fatma Betül Karakoç

10:35 - 10:50

“Mikrotremor Ölçümleri ve Bir Boyutlu Dinamik Analizlerle Sismik Mikrobölgeleme”

Taylan Aksoy, Ozan Subaşı, M. Emre Haşal, Recep İyisan

10:50 - 11:05

“Deprem Yükleri Altında Kum Zeminlerin Sıvılaşma Davranışı: Üst Tabaka Kalınlığının Etkisi”

Burak Okur, Merve Akbaş, Recep İyisan

F2C SESSION

HALL C

10:05 - 10:20

“The Effect of Kahramanmaraş Earthquakes on Historical Buildings: A Case Study in Beşkonaklar”

Fatma Ülker Peker

10:20 - 10:35

“Bir Yığma Yapının Deprem Performansının RYTEİE-2019, ASCE 41-23 ve TBDY-2018 Yönetmeliklerine Göre Karşılaştırmalı Değerlendirmesi”

Mert Hacıemiroğlu, Ahmet Özenir, Cenk Alhan

10:35 - 10:50

“Demir Kenet ve Zivana İçeren Tarihi Taş Duvarların Yapısal Modellenmesi ve Düzlem İçi Davranışlarının İncelenmesi”

Melika Salman, Oğuz Cem Çelik

10:50 - 11:05

“Damage Assessment of Historical Minarets after February 6, 2023 Kahramanmaraş Earthquakes”

Ömer Dabanlı, Elif Tuba Alhan, Alper İlki, Hatice Akgür

11:05 - 11:20 *"Shaking Table Test on Seismic Isolated Loadbearing Earthen Alker Wall"*
Bilge Işık, Neslihan Işık

11:20 - 11:35 *Break*

F3a SESSION

MAIN HALL A

11:35-11:50 *"Lessons Learned from Recent Earthquakes in Türkiye and Mexico – Topics for Future Collaboration"*
Sergio M. Alcocer, Jorge Aguirre, Jorge A. Ávila, Eduardo Botero, Marcos M. Chávez, Efraín Ovando

11:50 -12:05 *"Seismic Evaluation of an Existing Precast Concrete Building with Simplified Lateral Mechanism Analysis Method"*
Çağrı Çetlik, Cem Göksoy, Sadık Can Girgin

12:05 - 12:20 *"Out-of-plane Seismic Behavior of Full-scale Unreinforced AAC Block Infill Walls with In-plane Damages"*
Ömer Faruk Halıcı, Alper İlki

12:20 - 12:35 *"RC frames with isolated/decoupled masonry infills: advantages and benefits for practice"*
Marko Marinković, Christoph Butenweg

F3b SESSION

HALL B

11:35-11:50 *"Seismic Modal Characterization of Miniature Railway Tracks: Assessing S-Type Deformation Risks and the Influence of Sleeper Geometry"*
Ferhat Çeçen, Mehmet Saltan

11:50 -12:05 *"Seismic Performance Assessment of a Bridge Using Nonlinear Analysis Method According to TBEC 2020 Code"*
Esra Namlı Ceman, Murat Cem Dönmez

12:05 - 12:20 *"Depreme Dayanıklı Cam Elyaf Takviyeli Kompozit Boru Bağlantılarının Tasarımı ve Geliştirilmesi"*
Gülüm Tanırcan, Nuri Ersoy, Hasan Emre Demirci, Ayşe Edinçliler, Kaveh Shahidi, Hakan Mis, Ahmet Gülec

12:20 - 12:35 *"Numerical Analysis of Circular Tunnels Under Seismic Effects"*
Burcu Bayraktar, Yasin Fahjan

F3c SESSION

HALL C

- 11:35-11:50 *"Improving the Earthquake Performance of Wharf Structures with Sismik İzolasyon Technology"*
Cüneyt Tüzün, Bahadır Şadan, Mustafa Erdik
- 11:50 -12:05 *"Evaluation of Horizontal and Vertical Earthquake Effects on the Seismic Performance of Base Isolated Buildings Using Double Friction Pendulum Systems"*
Başak Toprak, Seda Öncü Davas
- 12:05 - 12:20 *"Seismic Impact of Fluid Viscous Damper Layouts in Precast RC Industrial Structures"*
Özkan Hakan, Mehmet Ömer Timurağaoğlu, Ramazan Livaoğlu
- 12:20 - 12:35 *"Seismic Design of Buildings Rising On A Common Sismik İzolasyon System"*
İsmail Akkaya, Eren Vuran

F3d SESSION

HALL D

- 11:35-11:50 *"Liquefaction Susceptibility Evaluation Based on Geotechnical & Geophysical Investigations – A Case Study from Yanbu Industrial City, KSA"*
Tahir Yıldız, Tuğba İleri, Hadi Chalal, M. Abdullah Sandıkkaya, Miguel F. Amaral, Christian G. Groom, Yasser M. Al-Bogami, Zaidan M. Yousef
- 11:50 -12:05 *"Flexible Modular Foundation System"*
Gökhan Baykal
- 12:05 - 12:20 *2023 Kahramanmaraş Depremleri Sonrası Su Sistemi Hasarları ve İyileştirme Çalışmaları"*
Selçuk Toprak, Engin Nacaroğlu, Oğuz Dal, Muhammet Ceylan, Adem Eren Şentürk, Şeyhmus Can Tunç, Mehdil Buğra İnce
- 12:20 - 12:35 *Yakın Fay ve Uzak Fay Depremleri Altında Zemin-Boru Etkileşim Sisteminin Düzlem Deformasyon Analizi"*
Kaşif Furkan Öztürk, Tufan Çakır, Dilek Kaya
- 12:35 - 14:00 **Lunch Break**

F4 SESSION

MAIN HALL A

14:00-14:30 *Keynote Lecture*
"Reinforced concrete walls: How well do we consider their behavior in analysis and design?"
Kutay Orakçal

F5a SESSION

MAIN HALL A

14:35 - 14:50 *"Hybrid FRP-Steel Internal Reinforcement for Seismic Resistant Concrete Shear Walls"*
Yağmur Waqar, Murat Saatcioglu, Martin Noel

14:50 - 15:05 *"Determination of Shear Lag in High-Rise Reinforcement Concrete Systems and Its Effect on Analysis and Design"*
Zeynep Bilgenur Avci, Kutlu Darılmaz

15:05 - 15:20 *"Seismic Response and Interaction of Multiple Building Blocks Rising above the Same Foundation Layer, Rigid Basement or Podium Stories"*
Egehan Genç, Eren Vuran

15:20- 15:35 *"Seismic Behavior of Uncoupled and Coupled Shear Walls: A Numerical Investigation"*
Aslıhan Küçük, Zekai Celep

15:35 - 15:50 *"Parametric Evaluation for the Adequate Shear Wall Index in Reinforced Concrete Buildings to be Constructed in High Seismicity Regions"*
M. Huseyin Maslak, Selin Bazancir, Beyza Taskin

F5b SESSION

HALL B

14:35 - 14:50 *"Experimental investigation of Multiple U-Shaped Flexural Plates in a Self-Centering Brace for Seismic Energy Dissipation System"*
Onur Gürler, Özgür Özçelik, Sadık Can Girgin

14:50 - 15:05 *"Experimental Investigation on Infill Walls with Flexible Connections Subjected to Out-of-Plane and In-Plane Loading"*
Cansu Beril Eser, Taha Yasin Altıok, Halil Nohutcu, Ali Demir

15:05 - 15:20 *"Numerical Investigation of Cyclic Behavior of a Reinforced Concrete Column: Blind Prediction Case"*
Sadık Can Girgin

15:20- 15:35 *"Numerical Application of a New Seismic Repair / Strengthening Procedure Based on the Plastic Hinge Relocation Concept"*
Umut Hasgöl, Tamer Birol, Altuğ Yavaş, Erkan Töre, Alper İlki

15:35 - 15:50 *"Analysis of Horizontally Curved Bridges Using Nonlinear Time-History Method and Evaluation of the Results"*
Esra Namlı Ceman, Turgut Öztürk

F5c SESSION

HALL C

- 14:35 - 14:50 *"Yeni Tecrübeler Işığında Betonarme Yapılarda Deprem Sonrası Hasar Derecelendirmesi"*
**Ömer Faruk Halıcı, Cem Demir, Mustafa Cömert, Tuğrul Sezdirmmez,
Erdem Canbay, Bilge Doran, Kutay Orakçal, Alper İlki**
- 14:50 - 15:05 *"Intelligent Transportation Techniques about Unmanned Aerial Vehicle Applications for Earthquakes"*
Elif Çiçek
- 15:05 - 15:20 *"Afet Eğitimi ve Toplumsal Algı: Kahramanmaraş Depremlerinden Elde Edilen İlkel Bulgular"*
**Masako Nagata, Atakan Arslan, Alev Topçular, Zinet Zercan, Gülüm Tanırcan, Risako İde,
Nurcan Meral Özel**
- 15:20- 15:35 *"Farklı Yapısal Özelliklere Sahip Betonarme Binalarda Bir Hızlı Değerlendirme Yönteminin Başarısının İrdelenmesi"*
İlknur Karakuş, Ercan Yüksel, Varol Karayel, Tansu Gökçe, Fatih Şahin
- 15:35 - 15:50 *"Az Katlı Betonarme Binaların Hızlı Görsel Tarama Yöntemleriyle Değerlendirilmesinde Olumsuzluk Puanlarının Karşılaştırmalı İncelemesi"*
Nurbanu Demirbaş, Hümeysra Şahin

F5d SESSION

HALL D

- 14:35 - 14:50 *The Effect of Ground Motion Scaling Methods on Steel Braced Frame System Behavior"*
Merve Güler, Nihan Doğramacı Aksoylar
- 14:50 - 15:05 *"Seismic site-effect characterization of the High Atlas sedimentary basin following the 2023 Al Haouz Earthquake"*
EL Hilali Mohamed, Ahmed Taoufik Ouahabi, Ahniche Mohamed
- 15:05 - 15:20 *"Depremselliğin Yüksek Olduğu Bölgeler İçin Uygun Maliyetli Koruma Sistemlerinin Geliştirilmesi"*
Cem Yenidogan, Ryuta Enokida
- 15:20- 15:35 *"Residual-Based Evaluation of Basin and Basin Edge Effects in Türkiye: Implications for Regional Site Amplification Modeling"*
Abdullah İçen
- 15:50 - 16:05 **Break**

F6 SESSION

MAIN HALL A

16:05-16:25	<i>Theme Lecture</i> <i>"Beyond the Model: Critical Judgment and Holistic Thinking in Earthquake Engineering in the Age of AI"</i> Ufuk Yazgan
16:25 - 16:45	<i>Theme Lecture</i> <i>"Role and Significance of Performance Based Design in Earthquake Geotechnical Engineering Practice"</i> Pelin Özener
16:45 -17:00	<i>From Masters</i> <i>"Deprem Katsayısından Performansa Göre Tasarıma: 60 Yıllık Bir Mühendisin Bakış Açısından Yapısal Deprem Mühendisliğinin Serüveni"</i> M. Nuray Aydınoğlu
17:00 -17:15	<i>From Masters</i> <i>"Yerel Zemin Koşulları ve Temel Sisteminin Yapısal Hasara Etkisi"</i> Kutay Özaydın
17:15 - 17:30	<i>From Masters</i> <i>"Deprem Sorununun En Çetin Boyutu"</i> Tuğrul Tankut
17:30 - 17:45	<i>Closing</i>