



Eastern Mediterranean University



15th

INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

CONGRESS PROGRAM VERSION-3

6 - 8 SEPTEMBER 2023

EASTERN MEDITERRANEAN UNIVERSITY • FAMAGUSTA • NORTH CYPRUS



CONTENTS

Welcome Message	3
Committees	4 – 6
Keynote Speakers	7 – 8
Themes	9
Conference Venue	10
General Program	11
Daily Programmes	12 – 25
Poster Presentations	26
Publications	27
Sponsors	28

WELCOME MESSAGE

Dear Colleagues,

The 15th International Congress on Advances in Civil Engineering- ACE 2023 will be held in Famagusta, North Cyprus, 6-7-8 September 2023. I would like to welcome you all to attend, participate and share your academic & practical knowledge in this prestigious organization, which will also provide plenty of opportunities for networking.

Traditionally, ACE congresses have been organized once every two years by one of the partner universities: Bogaziçi University, Eastern Mediterranean University, Ege University, Istanbul Technical University, Karadeniz Technical University, Middle East Technical University, Yıldız Technical University, supported by Turkish Chamber of Civil Engineers. In 2023, the Cyprus Turkish Chamber of Civil Engineers is also joining as a supporter for the congress.

At ACE congress, we discuss current trends in civil engineering including new technologies, methods, theories, and practices in all branches of civil engineering by bringing together researchers and experts from the industry from all over the world. We have invited Keynote Speakers and planned Social and Cultural Events to take place during the congress, which we hope you will find very interesting.

I am sure that you will enjoy the quality of the congress as well as the nature and tourist places of North Cyprus. We will all be happy to see you here for the congress.



Prof. Dr. Umut Türker

Congress Chair 15th ACE 2023

COMMITTEES

ORGANISING COMMITTEE

Umut Türker
Özgür Eren
Eriş Uygur

CONGRESS SECRETARIAT

Tolga Çelik

STEERING COMMITTEE

Gürkan Yağcıoğlu
Taner Yüzge
Bilge Doran
Cem Avcı
Engin Orakdoğan
Erdem Canbay
Şemsi Yazıcı
Şevket Ateş
Umut Türker

SECRETARIAT ASSISTANTS

Hamza Saeed
Aria Norouzi
Bashar Alibrahim
Hussein A. Moussa
Iman Youssefi
Muhammad Rajab
Oğuz Karayel

SCIENTIFIC COMMITTEE

Abdullah EKİNCİ
Abdulrezak MOHAMMAD
Ahmed ALYOUSIF
Ahmet BİRİNCİ
Ahmet C. ALTUNIŞIK
Ali ATEŞ
Ali KOÇAK
Ali MOSABERPANAH
Ali R. REZAI
Amin RIAZI
Anoosheh IRAVANIAN

Aria A. LANGROUDI
Aslı P. GÜRGÜN
Atakan AKSOY
Aydın ÖZTEMEL
Ayşe DALOĞLU
Ayşe P. BALKIS
Ayşen ERGİN
Bertuğ AKINTUĞ
Cahit YERDELEN
Ceren İNCE
Changiz AHBAB
Cüneyt AYDIN

Middle East Technical University
Conestoga College
University of Toronto
Karadeniz Technical University
Karadeniz Technical University
Bolu Abant İzzet Baysal University
Yıldız Technical University
Cyprus International University
University of Warwick
Seattle University
- Aalto University
- Near East University
University of East London
Yıldız Technical University
Karadeniz Technical University
Cyprus Turkish Chamber of Civil Engineers
Karadeniz Technical University
Cyprus Turkish Chamber of Civil Engineers
Turkish Chamber of Civil Engineers
Cyprus Turkish Chamber of Civil Engineers
Ege University
Middle East Technical University
Eastern Mediterranean University
Atatürk University

SCIENTIFIC COMMITTEE

Ece ÇELİK	Eastern Mediterranean University
Emre GÜRCANLI	İstanbul Technical University
Ertuğ AYDIN	European University of Lefke
Esin ÇEVİK	Yıldız Technical University
Feyza ÇİNİCİOĞLU	Turkish Chamber of Civil Engineers
Giray ÖZAY	Eastern Mediterranean University
Gözde OĞUZ	Cyprus Turkish Chamber of Civil Engineers
Gülay ALTAY	Özyeğin University
Gülben ÇALIŞ	Ege University
Hafzullah AKSOY	Turkish Chamber of Civil Engineers
Hakan YALÇINER	Erzincan Üniversitesi
Halim CEYLAN	Turkish Chamber of Civil Engineers
Hasan ZAIÑOĞLU	Middle East Technical University
Haseeb PAYAB	Drexel University
Hediye TÜYDEŞ	Middle East Technical University
Huriye BİLSEL	Cyprus International University
Hüseyin GÖKÇEKUŞ	Near East University
İbrahim BAY	European University of Lefke
İbrahim YİTMEN	Jönköping University
İman AGHAYAN	Shahrood University of Technology
İrfan COŞKUN	Yıldız Technical University
İsmail SAFKAN	Cyprus Turkish Chamber of Civil Engineers
İsmail ŞAHİN	Yıldız Technical University
Kambiz RAMYAR	Ege University
Kemal D. TÖZER	Cyprus Turkish Chamber of Civil Engineers
Kezban ÖZLÜTAŞ	Girne American University
Khaled MARAR	Eastern Mediterranean University
Mahmood HOSSEINI	Eastern Mediterranean University
Mehmedali EGEMEN	European University of Lefke
Mehmet C. GENEŞ	Eastern Mediterranean University
Mehmet M. KUNT	Eastern Mediterranean University
Melih YANMAZ	Middle East Technical University
Menteş ZORBA	Cyprus Turkish Chamber of Civil Engineers
Metin Hüsem	Karadeniz Technical University
Mohammad F. MOUSAVI	Bahçeşehir Cyprus University
Mohammad GHORBANZADEH	Girne University
Mohammad GOLHASHEM	International Final University
Mürüde ÇELİKAĞ	Eastern Mediterranean University
Mustafa ERGİL	Eastern Mediterranean University

SCIENTIFIC COMMITTEE

Mustafa MAHAMID	-Technion-Israel Institute of Technology -University of Illinois at Chicago
Mustafa TOKYAY	Turkish Chamber of Civil Engineers
Nabi YÜZER	Yıldız Technical University
Nihat KABAY	Yıldız Technical Üniversity
Ninel ALVER	Ege University
Ömer YÜKSEK	Karadeniz Technical University
Oral YAĞCI	İstanbul Technical University
Osman SİVRİKAYA	Karadeniz Technical University
Perviz AHMEDZADE	Ege University
Pınar AKPINAR	Cyprus Turkish Chamber of Civil Engineers
Polen ÇİFTÇİOĞLU	Cyprus Turkish Chamber of Civil Engineers
Rıfat AKBİYİKLİ	Turkish Chamber of Civil Engineers
Rıfat REŞATOĞLU	Near East University
Rouba ELDALATİ	Labanese University
Şakir ERDOĞDU	Karadeniz Technical University
Selim ALTUN	Ege University
Şeref ORUÇ	Karadeniz Technical University
Serhan ŞENSOY	Eastern Mediterranean University
Şerife Ö. SARPER	Eastern Mediterranean University
Şevket C. BOSTANCI	Cyprus Turkish Chamber of Civil Engineers
Shaban GHAT	Near East University
Suat AKBULUT	Yıldız Technical University
Şükrü ÖZÇOBAN	Yıldız Technical Üniversity
Tahir ÇELİK	Cyprus International University
Tayfun DEDE	Karadeniz Technical University
Teoman ÖZER	İstanbul Technical University
Tolga ÇELİK	Eastern Mediterranean University
Tülin AKÇAOĞLU	Eastern Mediterranean University
Umut YILDIRIM	Eastern Mediterranean University
Vedat TOĞAN	Karadeniz Technical University
Yalçın YÜKSEL	Yıldız Technical University
Yasin FAHJAN	İstanbul Technical University
Yeşim GÜRTÜĞ	Marmara University
Yusuf AYVAZ	Yıldız Technical University
Zafer KÜTÜĞ	Yıldız Technical Üniversity
Zalihe N. SEZAI	Eastern Mediterranean University
Zekai CELEP	Turkish Chamber of Civil Engineers
Zeynep IŞIK	Yıldız Technical Üniversity

KEYNOTE SPEAKERS



Prof. Dr. İ. Özgür YAMAN

Middle East Technical University, Ankara, Türkiye.

Dr. İsmail Özgür Yaman received his undergraduate and graduate degrees from the Department of Civil Engineering at METU in 1993 and 1995, and earned his PhD in 2000 at Wayne State University, USA, with his work on the simulation of ultrasonic testing of concrete. He has been continuing his academic activities at METU Department of Civil Engineering since 2003.

Dr. Yaman's main research topics include the use of non-destructive testing methods in concrete; developments in cement and concrete technology. For the last ten years his focus is on concrete road construction technologies.

Having over 100 national and international publications, Dr. Yaman held various positions in international institutions such as TRB and EUPAVE, as well as national professional and research institutions such as IMO, TÜBİTAK, TÜRKÇİMENTO and THBB.



Prof. Dr. Abbas AMINMANSOUR

University of Illinois at Urbana-Champaign, USA.

Dr. Abbas Aminmansour is a member of the Structures Concentration faculty and Chair of the Building Performance Program in the School of Architecture at the University of Illinois at Urbana-Champaign. His areas of research and scholarship interest include design of steel structures as well as design of tall buildings.

Professor Aminmansour is an active member of technical committees in the American Institute of Steel Construction (AISC) and serves on AISC's Committee on Manuals and Technical Committee 4 of the AISC Committee on Specification. His work has been adopted by AISC several times and included in the AISC Manual. His most recent work is what is referred to as the super table in Part Six of the AISC Manual. He is the recipient of the 2015 Special Achievement Award from AISC. Professor Aminmansour is currently developing an integrated cloud-based book and software for the design of structural steel members.

Dr. Aminmansour is a current member and past Chair of the Chicago Committee on High-Rise Buildings (CCHRB). He is also an active member of the Council on Tall Buildings and Urban Habitat (CTBUH) where he serves on the Editorial Board of CTBUH's International Journal of High-Rise Buildings. CTBUH recognized Dr. Aminmansour as one of four 2022 Fellows selected globally for this honor.

KEYNOTE SPEAKERS



Prof. Dr. Manousos Valyrakis

University of Glasgow, UK.

Manos got trained as a Civil Engineer with focus on hydraulics, getting both his MEng and MSc degrees from Aristotle University of Thessaloniki. He got awarded his PhD in river engineering, from Virginia Tech (USA). After a one year postdoc, he joined the University of Glasgow, as an Assistant Professor in Hydraulic Engineering and manager of the Water Engineering Lab, where he has led hydraulics research and teaching, for more than a decade.

He has also held visiting Professor posts in several universities and aspires to help bridge theory with applications, by developing new flow and sediment transport measurement devices that allow to better observe and monitor these highly dynamical processes.

He serves the hydraulic engineering community through active memberships in professional societies, such as the International Association for Hydroenvironment Research (IAHR), the American Society of Civil Engineers (ASCE), the Institute of Civil Engineers (ICE). He has served in IAHR's Experimental Methods and Instrumentation (EMI) leadership team and ICE's Reservoir Safety Advisory Group (ReSRAG) aiming to bridge theory with practice.



Prof. Dr. Yasin Fahjan,

İstanbul Teknik Üniversitesi

İstanbul Teknik Üniversitesi İnşaat Mühendisliği Bölümü'nde Yapı ve Deprem Mühendisliği alanında akademik ve araştırma faaliyetlerin sürdürmektedir. 1992 yılında Doğu Akdeniz Üniversitesi İnşaat Mühendisliği Bölümü'nden Lisans derecesini alan Yasin FAHJAN Master Derecesini 1994 yılında aynı bölümünden almıştır. 1998 yılında Boğaziçi Üniversitesi İnşaat Mühendisliği Bölümünde doktorasını tamamlamıştır. Deprem riski değerlendirmeleri, zemin-yapı etkileşimi, sıvı-yapı Etkileşimi konularında güçlü bir altyapıya sahiptir. Yapısal analizler, hızlı müdahale ve erken uyarı sistemleri, kuvvetli yer hareketi simülasyonları ile ilgili çeşitli eğitimsel ve ticari kodlar ve algoritmalar geliştirmiştir. Türkiye Afet ve Acil Durum Yönetimi Başkanlığı tarafından deprem sonrası kurtarma operasyonları ve ülke çapında risk değerlendirmesi ve yönetimi için işletilen AFAD-RED sisteminin ana geliştiricisidir. Ayrıca Türkiye'de ve yurt dışında birçok öncü mühendislik projesinde deprem mühendisliği danışmanı olarak çalışan Prof. FAHJAN, ulusal ve uluslararası düzeyde birçok araştırma projesinde ekip lideri olarak yöneticilikler yapmıştır. Birçok hakemli dergide ve konferanslarda önemli yayınları bulunmaktadır.

CONGRESS THEMES



BUILDING MATERIALS



**CONSTRUCTION
MANAGEMENT**



GEOTECHNICS



HYDRAULICS



STRUCTURES



TRANSPORTATION



**CIVIL ENGINEERING
EDUCATION**

CONGRESS VENUE



 Rauf Raif Denktaş Culture and Congress Centre

CONGRESS HALLS

GRAND HALL



SMALL HALL



ARSINOE HALL



SALAMIS HALL



GENERAL PROGRAM

DAY 1			
06 SEPTEMBER 2023			
08:00 Registration			
10:00 – 11:00 Opening Ceremony			
Grand Hall • Opening Speeches			
Coffee Break [11:00 – 11:15]			
11:15 – 12:00 Keynote			
Grand Hall Earthquake Engineering Prof Dr. Yasin Fahjan			
Lunch [12:00 – 13:15]			
13:15 Poster Presentation			
13:15 – 14:45 Technical Sessions			
Grand Hall	Small Hall	Arsinoe Hall	Salamis Hall Online
Structural and Earthquake	Building Materials	Geotechnics	Structural and Earthquake
Coffee Break [14:45 – 15:00]			
15:00 – 16:30 Technical Sessions			
Grand Hall	Small Hall	Arsinoe Hall	Salamis Hall Online
Structural and Earthquake	Hydraulics	Transportation	• Structural and Earthquake • Construction Management
END OF DAY 1			

DAY 2			
07 SEPTEMBER 2023			
09:00 Poster Presentation			
09:00 – 10:30 Technical Sessions			
Grand Hall	Small Hall	Arsinoe Hall	Salamis Hall Online
Structural and Earthquake	Building Materials	Geotechnics	Geotechnics
Coffee Break [10:30 – 10:45]			
10:45 – 12:15 Technical Session			
Grand Hall	Small Hall	Arsinoe Hall	Salamis Hall Online
Structural and Earthquake	Transportation	Hydraulic	• Geotechnical • Building Materials
Lunch [12:30 – 13:30]			
13:30 – 14:15 Keynote			
Grand Hall		Building Materials Prof Dr. Özgür Yaman	
14:15 – 15:00 Keynote			
Grand Hall		Prof Dr. Manousos Valyrakis	
Coffee Break [15:00 – 15:15]			
15:15 – 16:45 Technical Session			
Grand Hall	Small Hall	Arsinoe Hall	Salamis Hall Online
Structural and Earthquake	Building Materials	Construction Management	• Building Materials • Transportation • Hydraulics
END OF DAY 2			

DAY 3	
08 SEPTEMBER 2023	
09:00 Poster Presentation	
09:30 – 11:15 Technical Sessions	
Grand Hall	Salamis Hall Online
Structural and Earthquake	Hydraulic
Coffee Break [11:15 – 11:30]	
11:15 – 12:00 Keynote	
Grand Hall	Structural Engineering Prof. Dr. Abbas Aminmansour
Lunch [12:00 – 13:15]	
13:30 – 16:30 EARTHQUAKE PANEL	
Grand Hall	KEYNOTE I : Prof Dr. Yasin Fahjan
Grand Hall	KEYNOTE II : Assoc. Prof. Dr. Zehra Çağnan Ertuğrul
Grand Hall	KEYNOTE III : Prof Dr. Serhan Şensoy
19:00 – 22:00 Closing Cocktail Party at Beach Club	
END OF DAY 3	

DAILY PROGRAMMES

TIME ZONE: NICOSIA, CYPRUS --- GMT +03:00

DAY 1		
06 SEPTEMBER 2023		
08:00	On-Site Registration	
10:00 – 11:00	Opening Ceremony	GRAND HALL
	Opening Speeches:	
	<ul style="list-style-type: none"> • <i>Prof. Dr. Umut Türker</i>, Congress Chair, EMU. • <i>Assoc. Prof. Dr. Eriş Uygur</i>, Chair, Civil Engineering Department, EMU. • <i>Mr. Gürkan Yağcıoğlu</i>, President, Chamber of Civil Engineers, North Cyprus. • <i>Prof. Dr. Hüseyin Özkaramanlı</i>, Dean of Engineering Faculty, EMU. • <i>Prof. Dr. Aykut Hocaan</i>, Rector, EMU. 	
11:00 – 11:15 COFFEE BREAK		
11:15 – 12:00	KEYNOTE: Earthquake Engineering	GRAND HALL
	<i>Prof. Dr. Yasin Fahjan</i> [İstanbul Technical University]	
	Session Chair: <i>Assoc. Prof. Dr. Giray Özay</i>	
12:00 – 13:15 LUNCH		
13:15	Poster Presentation	
13:15 – 14:30	TECHNICAL SESSION – IA	GRAND HALL
	Structural & Earthquake Engineering	
Session Chair:	<i>Prof. Dr. Mürüde Çelikağ</i>	
13:15 – 13:30	ACE2023-008	Cost Estimation of Reinforced Concrete Buildings by Using Neural Network and Multi Regression Analysis. <i>Mohamad Abou Rajab, Giray Özay</i>
13:30 – 13:45	ACE2023-012	A Computational Model for the Analysis of 2D Beams and Frames Failure Based on Hardening and Softening Behaviors with an Incorporated Damage Model. <i>Mourid Elhoucine, Koulli Redhwane, Mamouri Said</i>
13:45 – 14:00	ACE2023-020	Effect of Steel Braces on Progressive Collapse Using Applied Element Method. <i>Laith Hafez, Mehmet Cemal Genes</i>
14:00 – 14:15	ACE2023-032	Wind Tunnel Study of the Roof of a New Railway Station. <i>Roberto Gomez, Raul Sanchez, J. Alberto Escobar</i>
14:15 – 14:30	ACE2023-036	When a Silo Burns for a Month: Structural Assessment of a Severely Damaged Concrete Agricultural Structure. <i>Richard Walls, Anene Oguaka, Gareth Jones</i>
14:30 – 14:45 COFFEE BREAK		

DAY 1
06 SEPTEMBER 2023

13:15 – 14:30

TECHNICAL SESSION – IB

SMALL HALL

Building Materials Engineering

Session Chair:

Assoc. Prof. Dr. Tülin Akçaoğlu

13:15 – 13:30

ACE2023-001

Surface Treatment of Rubber Particles with Sodium Hydroxide Solution for Use in Cement Bound Base Course.

Matija Zvonarić, Martina Zagvozda, Ivana Barišić, Lora Babić

13:30 – 13:45

ACE2023-068

Influence of Short Polyethylene Terephthalate Fibres on Mechanical and Physical Properties of Cementitious Mortars.

Can Özgün Sayı, Necat Özaşık, Özgür Eren

13:45 – 14:00

ACE2023-090

A Comparison and Review of Studies on Chemical Accelerator Admixtures in Concrete.

Farzin Asgharpour, Khaled Hamed Marar

14:00 – 14:15

ACE2023-114

Development of Low-Carbon Oxalate Cement Using Copper Slag.

Baki Aykut Bilginer, Sinan T. Erdoğan

14:15 – 14:30

ACE2023-240

Influence of Binary Use of Antifreeze Admixtures on The Early-Age Frost Resistance of Self-Compacting Concretes.

Ali Öz, Fatma Karagöl, Rıza Polat, Cemal Karaaslan

14:30 – 14:45

COFFEE BREAK

13:15 – 14:30

TECHNICAL SESSION - IC

ARSINOE HALL

Geotechnical Engineering

Session Chair:

Prof. Dr. Huriye Bilsel

13:15 – 13:30

ACE2023-014

Improving Geotechnical Monitoring System Performances by Integrating Advanced Technologies for Data Acquisition and Elaboration.

Andrea Segalini, Alessandro Valletta, Marco Conciatori, Andrea Carri

13:30 – 13:45

ACE2023-048

Linear Equivalent Seismic Response of a Surface Foundation Excited by a Harmonic Rayleigh Wave.

Badreddine Sbartaï, Hamoudi Belkhir

13:45 – 14:00

ACE2023-105

Utilization of Recycled Concrete Sand in Soil Stabilization.

Victor Temiloluwase Ojotisa, Shihab Ibrahim

14:00 – 14:15

ACE2023-127

Stability Analysis of Akiali Landslide (Jebha, North of Morocco).

Houda Merouani, Abdellilah Dekayir, Mohamed Rouai, Mohamed Ben Haddou

14:15 – 14:30

ACE2023-246

Multiple Regression of Compression Index with Different Soil Parameters.

Yeşim Gürtuğ

14:30 – 14:45

COFFEE BREAK

DAY 1
06 SEPTEMBER 2023

13:15 – 14:30 TECHNICAL SESSION – ID SALAMIS HALL (ONLINE)

Structural & Earthquake Engineering

Session Chair: Assoc. Prof. Dr. *Tolga Çelik*

13:15 – 13:30	ACE2023-027	Calculation of Seismic Effects in the LIRA 10 Software Complex. <i>Isaak Ievzerov, Yurii Heraimovych, Dmytro Marchenko</i>
13:30 – 13:45	ACE2023-075	Testing of Concrete Masonry Infill Walls Subjected to In-plane Lateral Load. <i>J. Martin Leal-Graciano, Juan J. Pérez-Gavilán, A. Reyes Salazar, J. L. Rivera Salas</i>
13:45 – 14:00	ACE2023-176	Corroboration of the Pre- and Post-Earthquake Assessment of the Buildings in 2023 Kahramanmaraş Earthquake Using Field Inspections and Street-Level Imagery. <i>Ayşe Elif Özsoy Özbay, Işıl Sanrı Karapınar, Hüseyin Can Ünen</i>
14:00 – 14:15	ACE2023-184	Effect of Mass Irregularity on Seismic Performance of a Base-Isolated RC Building. <i>Gökhan Özdemir, Fatmagül Ağlan, Anıl Gelmez, Barış Dilek, Esengül Çavdar</i>
14:15 – 14:30	ACE2023-192	Finite Element Analysis on Axial Compressive Performance of RHHCFST Short Columns with Longitudinal Stiffeners. <i>Zhijian Yang, Wenzhi Zuo</i>

14:30 – 14:45 COFFEE BREAK

15:00 – 16:30 TECHNICAL SESSION – 2A GRAND HALL

Structural & Earthquake Engineering

Session Chair: Assoc. Prof. Dr. *Giray Özay*

15:00 – 15:15	ACE2023-038	Analysis of Stress Induced Deformation and Evaluation of Performance of Tunnel Boring Machine in Extraordinary Geological Conditions Encountered During Excavation of Head Race Tunnel in Himalaya: A Case Study. <i>Mainak Ghosh Roy, Sajan Moideen, Nirmal Singh, Biswajit Basu</i>
15:15 – 15:30	ACE2023-044	On the Application of Flexible Architecture and Earthquake-Resilient Structure in Creation of Multi-Purpose Self-Help Neighborhood Centers for Post-Earthquake Emergencies. <i>Mona Zaryoun, Mahmood Hosseini, Heniyeh Okhovat</i>
15:30 – 15:45	ACE2023-045	The Effect of Masonry Infills on the Performance of Steel Frames. <i>Elif Nazlı Akbas, Murude Celikag, Ashraf M. L. Milad</i>
15:45 – 16:00	ACE2023-073	A Simple Procedure to Approximate Fundamental Mode Period of Vibration. <i>Abdul Hakim Chikho</i>
16:00 – 16:15	ACE2023-226	Vision-Based Identification of Dynamic Characteristics Using Cameras: A Case Study one of Tehran's Overpass Bridges. <i>Maryam Abazarsa, Mahmood Hosseini</i>

END OF DAY 1 TECHNICAL SESSION

DAY 1
06 SEPTEMBER 2023

15:00 – 16:30

TECHNICAL SESSION – 2B

SMALL HALL

Hydraulics Engineering

Session Chair:

Prof. Dr. Mustafa Ergil

15:00 – 15:15	ACE2023-050	Trends of Standard Duration Maximum Precipitation over the Last 30 Years in Kastamonu Province, Northern Turkey. <i>Fatma Akçay, Betül Mete, Murat Kankal, Adem Bayram</i>
15:15 – 15:30	ACE2023-070	Analysis of the Influencing Factors of Variation in Sediment Concentration in the Lower Değirmendere Basin, Trabzon, Türkiye. <i>Osman Tuğrul Baki, Betül Mete, Ömer Yüksek</i>
15:30 – 15:45	ACE2023-100	Possible Effects of Climate Change on Seawater Temperatures: A Case Study for Sarıyer Meteorological Observation Station, Southwestern Black Sea <i>Sinan Nacar, Betül Mete, Betül Sezanur Tokgöz, Adem Bayram</i>
15:45 – 16:00	ACE2023-125	Tracking Climate Change Impact on Droughts in Northern Cyprus through Standardized Precipitation Index. <i>Ma'in Ghanem, Hasan Zaifoğlu</i>
16:00 – 16:15	ACE2023-137	Estimation of Design Rainfalls in Cyprus Under Nonstationary Conditions. <i>Hasan Zaifoglu</i>

END OF DAY 1 TECHNICAL SESSION

15:00 – 16:15

TECHNICAL SESSION – 2C

ARSINOE HALL

Transportation Engineering

Session Chair:

Assoc. Prof. Dr. Mehmet Metin Kunt

15:00 – 15:15	ACE2023-179	Developing a Decision Support System for Roadside Restraint Systems (RRSs) Design. <i>Ege Cem Saltık, Abdurrahman Sinan Alemdar, Hediye Tuydes-Yaman</i>
15:15 – 15:30	ACE2023-163	An Evaluation of Electric Vehicle Performance in Extreme Weather Conditions and HVAC Use. <i>Hazal Ergül, Hediye Tuydes-Yaman</i>
15:30 – 15:45	ACE2023-155	Investigating the Tensile Properties of Geocell Reinforced Pavement System Using a 2D FE Model <i>Yalcin Karakaya, Dilay Yildirim Uncu, Adem Ozer</i>
15:45 – 16:00	ACE2023-010	Financial and Structural Innovations in Mega Transportation Projects in Türkiye. <i>Efecan Ünal</i>

END OF DAY 1 TECHNICAL SESSION

DAY 1
06 SEPTEMBER 2023

15:00 – 16:00 TECHNICAL SESSION – 2D SALAMIS HALL (ONLINE)

Structural & Earthquake Engineering

Session Chair: Assoc. Prof. Dr. *Tolga Çelik*

- | | | |
|----------------------|--------------------|--|
| 15:00 – 15:15 | ACE2023-212 | Reviewing Prestress Losses in an Aged Spanish Concrete Bridge.
<i>Juan Antonio Mateu-Sánchez, José Rocío Martí-Vargas, Juan Navarro-Gregori</i> |
| 15:15 – 15:30 | ACE2023-243 | Seismic Response and Reliability Analysis of A High-Pier Rigid Frame Bridge.
<i>Liu Zixin</i> |
| 15:30 – 15:45 | ACE2023-034 | Determining the Earthquake Behavior of the Historical Aziziye Mosque Minaret by Considering the 2022 Düzce-Gölyaka (Mw: 5.9) Earthquake.
<i>Murat Çavuşlu</i> |
| 15:45 – 16:00 | ACE2023-162 | Adaptive Sliding Mode for A Semi Active Vibration Control.
<i>Khaled Zizouni, Abdelkrim Saidi, Leyla Fali, Bousserhane Ismail Khalil</i> |

16:00 – 17:30 TECHNICAL SESSION – 2E SALAMIS HALL (ONLINE)

Construction Management Engineering

Session Chair: Assoc. Prof. Dr. *Tolga Çelik*

- | | | |
|----------------------|--------------------|--|
| 16:00 – 16:15 | ACE2023-074 | A Review of the Application of Earn Value Method in Construction Industry.
<i>Muhammad Mubasher, Wei Tong Chen, Theresia Avila Bria, Ferdinan Nikson Liem</i> |
| 16:15 – 16:30 | ACE2023-099 | A Systematic Literature Review on Blockchain Technology for Construction Contract Management.
<i>Ahmet Karacıgan, Beliz Özorhon</i> |
| 16:30 – 16:45 | ACE2023-124 | Quantification of Causes for Rework in Turkish Construction Industry.
<i>Eda Nur Erdem, Gülden Gümüşburun Ayalp</i> |
| 16:45 – 17:00 | ACE2023-203 | Cost Overrun Analysis in Road projects: Insights from ADB Funded Projects.
<i>Iman Youssefi, Tolga Celik</i> |
| 17:00 – 17:15 | ACE2023-069 | Education for the Use of BIM on the Example of Slovenian Higher Education.
<i>Nataša Šuman, Zoran Pučko, Aleksander Srdić, Robert Klinc</i> |

END OF DAY 1 ONLINE TECHNICAL SESSIONS

DAY 2
07 SEPTEMBER 2023

09:00 **Poster Presentation**

09:00 – 10:30

TECHNICAL SESSION – 3A

GRAND HALL

Structural & Earthquake Engineering

Session Chair:

Assoc. Prof. Dr. Mehmet Cemal Genes

09:00 – 09:15

ACE2023-079

Effect of Column-to-Beam Strength Ratio Distribution on the Seismic Behavior of Reinforced Concrete Frame Structures.

Firat Sondilek, Egemen Sönmez, Ali Şahin Taşlıgedik

09:15 – 09:30

ACE2023-097

Using Vertical Seismic Isolation by Dividing the Building's Structure into Interactive Parts.

Samira Yazdani, Mahmood Hosseini, Masoud Nekooei

09:30 – 09:45

ACE2023-113

Seismic Behavior of Corrosion Damaged Reinforced Concrete Columns Under Combined Loadings.

Elif Nazlı Akbas, Serhan Sensoy, Ozgur Eren

09:45 – 10:00

ACE2023-117

Seismic Performance of RC Frame with Different Types of Slabs using Non-linear Time History.

Mahmoud Eissa, Murude Celikag

10:00 – 10:15

ACE2023-129

Identification of the Tensile Properties of Concrete in Pre-Stressed Beams Subjected to Four-Point-Bending Test.

Gabriella Bolzon, Mohammad Hajar, Emanuele Zappa

10:15 – 10:30

ACE2023-025

Effect of Glass Fiber Reinforced Polymer Reinforcement Ratio on the Shear Performance of Ultra High Performance Concrete Deep Beams

Farid Abed

10:30 – 10:45

COFFEE BREAK

09:00 – 10:30

TECHNICAL SESSION – 3B

SMALL HALL

Building Materials Engineering

Session Chair:

Prof. Dr. Khaled Marar

09:00 – 09:15

ACE2023-132

Eco-friendly vs Fire Safe? Conceptualising Fire Risk for Construction Systems Incorporating Plastic, Rubber and Biomass.

Richard Walls, Yohannes Shewalul, Adewumi John Babafemi, Natalia Flores-Quiroz

09:15 – 09:30

ACE2023-130

Structures and Performance of Agro-based Ternary Blends in Concrete – A State of the Art Review.

Christopher Fapohunda, Oluwatoyin Osanyinlokun, Adekunle Abioye

09:30 – 09:45

ACE2023-159

A Review Paper About Test Methods Used/Developed for Fresh and Hardened Properties of High Strength Concrete.

Farzin Asgharpour, Özgür Eren, Efcan Ünal, Yahya Abdullah Mohammed Muaamar

09:45 – 10:00

ACE2023-174

Comparing the Effects of Two Binders, Sulfur and Portland Cement, on the Permeability and Corrosion Rate of Reinforced Concrete.

Omid Deldar, Behnam Rafie, Khaled Marar, Tülin Akçaoğlu

10:30 – 10:45

COFFEE BREAK

DAY 2
07 SEPTEMBER 2023

09:00 **Poster Presentation**

09:00 – 10:30

TECHNICAL SESSION – 3A

ARSINOE HALL

Geotechnical Engineering

Session Chair:

Assist. Prof. Dr. Abdullah Ekinci

09:00 – 09:15

ACE2023-153

Slopes with Groundwater Level Changes by Precipitation Under Different Loads.

Baran Toprak, Murat Pinarlik

09:15 – 09:30

ACE2023-185

Effect of Stress History on Lateral Earth Pressure Coefficient At Rest Analysis Through Discrete Elements Method.

Khellaf Abdelghani, Mansouri Mouloud

09:30 – 09:45

ACE2023-031

Dynamic Response of Shallow Mat Footings on Coir Geotextile Reinforced Sand Under Cyclic Loading

Mohamad Hanafi, Abdullah Ekinci

09:45 – 10:00

ACE2023-215

Seismic Site Response Analysis of the Famagusta Region: Investigation of Amplification and Attenuation Characteristics of the Local Soil Strata.

Hamza Saeed, Eris Uygur, Zalihe Nalbantoglu

10:30 – 10:45

COFFEE BREAK

09:00 – 10:45

TECHNICAL SESSION – 3C

SALAMIS HALL (ONLINE)

Geotechnical Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

09:00 – 09:15

ACE2023-006

Exploring the Effects of Cement and Eggshell Powder Stabilization on the Engineering Characteristics of Expansive Soils: An Experimental Study.

Reem Alqaisi, Thang Minh Le, Hadi Khabbaz

09:15 – 09:30

ACE2023-053

Effect of Colemanite and Glass Fiber on the Compressibility and Swelling Pressure of Bentonite Clay.

Yusuf Batuge, Sukran Gizem Alpaydin, Yeliz Yukselen-Aksoy

09:30 – 09:45

ACE2023-056

Passive Earth Reinforcement for Lateral Equilibrium Optimization.

Tarik Solomon Teshome, Zehra Nil Kutlu, Aykut Şenol, İsmail Emrah Kılıç

09:45 – 10:00

ACE2023-059

An Assessment of Shrinkage Characteristics of Cementitiously Stabilized Granular Material for Pavement Layers.

Samir Saurav, Sanjeev Sinha, Anish Kumar

10:00 – 10:15

ACE2023-089

Active and Passive Pressures Acting on Smooth Circular Shafts.

Abdelmadjid Meftah, Naima Benmebark, Sadok Benmebark

10:15 – 10:30

ACE2023-140

Prediction of the Simple Compressive Strength of Clay Soils Improved by Lime and Gypsum Using the ANN Application.

Yasmina Kellouche, Hamid Gadouri, Walid Teldjoune, Yazid Chetbani

10:30 – 10:45

ACE2023-119

Undrained Spherical Expansion Analysis for Clay.

Vincenzo Silvestri, Claudette Tabib

10:45 – 11:00 COFFEE BREAK

DAY 2
07 SEPTEMBER 2023

10:45 – 12:15

TECHNICAL SESSION – 4A

GRAND HALL

Structural & Earthquake Engineering

Session Chair:

Assist. Prof. Dr. Umut Yildirim

10:45 – 11:00

ACE2023-118

Comparison of the Seismic Behavior of RC Frame with Wide Beam and Deep Beam Non-linear Time History.

Mahmoud Eissa, Murude Celikag

11:00 – 11:15

ACE2023-150

Machine Learning-Based Structural Health Monitoring of Dams.

Gabriella Bolzon, Caterina Nogara

11:15 – 11:30

ACE2023-160

A Nonlinear Study of The Influence of Strong Earthquake Ground Motion from The February 2023 Turkey Sequence (M = 7.8).

Filip Pachla, Tadeusz Tatara, Waseem Aldabbik

11:30 – 11:45

ACE2023-161

A Study on the Safety Assessment of the Base Isolation System Regarding the Ductile Behavior of the Superstructure.

Soheil Ramezani

11:45 – 12:00

ACE2023-165

Analysis of Cable-Net Systems for Glass Facades.

Vitalii Komlev, Josef Machacek

12:00 – 12:15

ACE2023-197

Indicators Affecting the Design of Subway Stations to be More Responsive in Emergencies.

Mahshid Doostmohamadian, Mahmood Hosseini

12:15 – 13:30

LUNCH

10:45 – 12:15

TECHNICAL SESSION – 4B

SMALL HALL

Transportation Engineering

Session Chair:

Assoc. Prof. Dr. Hediye Tüydeş Yaman

10:45 – 11:00

ACE2023-221

Tracing Back the Energy Use in Transportation Systems and Modes: An Energy-Balance Methodology for Turkey.

Hediye Tüydeş Yaman, Gulcin Dalkic-Melek, Egecem Saltik, Kemal Sarica

11:00 – 11:15

ACE2023-152

Development of Pavement Condition Prediction Models in Urban Areas Using Micro PAVER.

Turki I. Al-Suleiman Obaidat, Linda Zaid Abu Ghazaleh

11:15 – 11:30

ACE2023-151

Modelling Shared Bicycle Demand Using Artificial Neural Networks.

Selim DüNDAR, Pelin Alcan Gezginci, Gürkan Günay, Elçin Mert4, Ersoy Soyer

11:30 – 11:45

ACE2023-141

Use of Synthetic Fiber in Asphalt Pavements Mini Review.

Halime Solak, Erol İskender, Atakan Aksoy, Cansu İskender

12:15 – 13:30

LUNCH

DAY 2
07 SEPTEMBER 2023

10:45 – 12:15

TECHNICAL SESSION – 4C

ARSINOE HALL

Hydraulic Engineering

Session Chair:

Chair: Assit. Prof. Dr. Hasan Zaifoglu

10:45 – 11:00

ACE2023-178

Determination of Sediment Transport of Coruh River by Field Observation and RUSLE Method.
Kutay Yılmaz, Saber Habibi Topraghghaleh, Yakup Darama, Nazmi Kağncioğlu

11:00 – 11:15

ACE2023-193

Flood Risk Mapping with Entropy Based Methods.
Filiz Vargün, Türkay Baran, Filiz Barbaros

11:15 – 11:30

ACE2023-230

Daily Rainfall Characteristics in Sudan: Statistical Analysis and Modelling.
Youssef Kassem, Hüseyin Gökçekuş, Mohamed Elmustafa Elmubarak Elawad Hassan

11:30 – 11:45

ACE2023-232

Evaluating Satellite-Based and Reanalysis Precipitation Datasets with Gauge Observed Data and Hydrological Modeling in The Dead Sea Region, Jordan.
Youssef Kassem, Hüseyin Gökçekuş, Nour Alijl

12:15 – 13:30

LUNCH

10:45 – 12:00

TECHNICAL SESSION – 4D

SALAMIS HALL (ONLINE)

Geotechnical Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

10:45 – 11:00

ACE2023-115

Thermal Modeling of the Buffer Around Nuclear Waste Repository.
Esra Güneri, Yeliz Yükselen Aksoy

11:00 – 11:15

ACE2023-126

An Experimental Study on the Usability of Reclaimed Asphalt Pavements or Waste Bricks in the Stone Columns.
Talha Sarici, Bahadır Ok, Nurullah Akbulut, Ahmet Haydar Cenk

11:15 – 11:30

ACE2023-223

Use of Recycled Aggregates from Derived Construction and Demolition Waste in the Highway Base Layer.
Perihan Biçer, Burak Kılıç

11:30 – 11:45

ACE2023-042

Micromechanical Modeling of the Dynamic Response of a Sand Deposit.
Said Derbane, Mouloud Mansouri, Salah Messast, A. El Malki Alaoui

11:45 – 12:00

ACE2023-095

Automated Extraction of Geotechnical Data from PDF Reports and Kriging Application.
Nouhayla Bouayach, Fouzia Kassou, Mustapha Rguig, Hajar Zoubir

12:00 – 12:45

TECHNICAL SESSION – 4E

SALAMIS HALL (ONLINE)

Building Materials Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

12:00 – 12:15

ACE2023-005

Strength and Fresh Properties of Self-Compacting Concrete Containing Coarse Electric Arc Furnace Slag Aggregate.
Saeid Moghimi, Cihat Yüksel, Özge Andiç Çakir, Kambiz Ramyar

12:15 – 12:30

ACE2023-007

Mechanical Properties and Expansion Behaviour of ASR Affected Concrete.
Saeid Moghimi, Cihat Yüksel, Kambiz Ramyar

12:30 – 12:45 ACE2023-102 Influence of Barite Sand on the Strength on Self-Compacting Concrete with Fly Ash.
Ksenija Janković, Marko Stojanović, Dragan Bojović, Anja Terzić1, Srboljub Stanković

12:45 – 13:30 LUNCH

DAY 2
07 SEPTEMBER 2023

13:30 – 14:15 **KEYNOTE I: Building Materials** **GRAND HALL**
Prof Dr. Özgür Yaman [Middle East Technical University]

Session Chair: *Prof. Dr. Özgür Eren*

14:15 – 15:00 **KEYNOTE 2: Hydraulics** **GRAND HALL**
Prof Dr. Manousos Valyrakis [Aristotle University of Thessaloniki]

Session Chair: *Prof. Dr. Mustafa Ergil*

15:00 – 15:15 COFFEE BREAK

15:15 – 16:30 **TECHNICAL SESSION – 5A** **GRAND HALL**

Structural and Earthquake Engineering

Session Chair: *Assoc. Prof. Dr. Giray Özay*

15:15 – 15:30 ACE2023-186 Effects of Configuration Changes on Live Load Carrying Capacity of Steel Railway Bridges with Same Span Length.
Fatih Yilmaz, Mehmet Fatih Yilmaz, Kadir Ozakgul, Barlas Ozden Caglayan

15:30 – 15:45 ACE2023-191 Field Observations of Three Recent Turkish Earthquakes: January 24, 2020 Elazığ-Sivrice, November 30, 2020 Aegean Sea, and February 6, 2023 Kahramanmaraş.
Halit Cenan Mertol, Gökhan Tunç, Tolga Akış

15:45 – 16:00 ACE2023-200 Investigating the Inelastic Performance of a Seismic Code-Compliant Reinforced Concrete Hospital under Long Sequence of Ground Motions Records.
Sasan Babaei, Ahed Habib, Mahmood Hosseini, Umut Yildirim

16:00 – 16:15 ACE2023-210 Shear Buckling of Corrugated Web Beams with Openings.
Hartmut Pasternak, Zheng Li

16:15 – 16:30 ACE2023-213 Seismic Assessment of Bridges Under Aftershock Affects.
M. Fatih Yilmaz, Fatih Yilmaz, Kadir Ozakgul, B. Ozden Caglayan

END OF DAY 2 TECHNICAL SESSION

DAY 2
07 SEPTEMBER 2023

15:15 – 16:15

TECHNICAL SESSION – 5B

SMALL HALL

Building Materials Engineering

Session Chair:

Assoc. Prof. Dr. Ertuğ Aydın

15:15 – 15:30

ACE2023-188

Compressive Strength Assessment of Brick Waste-based Geopolymer Concrete.

Gurkan Yildirim, Musab Alhawat, Emircan Ozcelikli, Ashraf Ashour

15:30 – 15:45

ACE2023-217

Effect of Reactive MgO Substitution on Strength Development and Microstructure Properties of Sodium Carbonate Activated Slag-Based Systems.

Ömer Can Özen, Didem Oktay, Büşra Aktürk

15:45 – 16:00

ACE2023-229

Performance Comparison Between Synthetic and Natural Fiber Reinforced Wood Ash Cement Composite Pastes.

Sevket Can Bostanci, Hasan Dilek

16:00 – 16:15

ACE2023-241

Alternative Approaches for Sustainable Concrete Construction.

Aslı Bardak

END OF DAY 2 TECHNICAL SESSION

15:15 – 17:15

TECHNICAL SESSION – 5C

ARSINOE HALL

Construction Management Engineering

Session Chair:

Prof. Dr. Tahir Çelik

15:15 – 15:30

ACE2023-181

Digital Quality Management System for Construction: The Role of Smart Cameras.

Zanyar Abdullah, Tahir Çelik, Tolga Celik

15:30 – 15:45

ACE2023-158

Supervisor's and Co-workers' Safety Climate of Building Construction Workers.

Serkan Aydınli, Selman Aslan

15:45 – 16:00

ACE2023-138

Resilience in Construction Industry and Its Role in Upgrading the Quality of Post-Earthquake Sheltering and Reconstruction.

Mahmood Hosseini, Yasamin O. Izadkhah, Peyman Pir-Ata

16:00 – 16:15

ACE2023-131

Construction and Demolition Waste Processing for A Circular Construction Model: An Overview and Comparison Between On-Site and Off-Site Recycling.

Hanan Al-Raqeb, Hammadhu H., Seyed Hamidreza Ghaffar, Anjali G.

16:15 – 16:30

ACE2023-081

Identification of Critical Factors in Design for Sustainability of Modular Constructions.

Efkan Efekan, Tolga Celik, Onur B. Tokdemir

16:30 – 16:45

ACE2023-164

Enhancing Students' Comprehension in Building Structures: An Experimental Exploration of Augmented Reality Applications

Salman Azhar, Guangyan Shao

16:45 – 17:00

ACE2023-245

Occupational Health and Safety Practices in North Cyprus.

Murude Celikag, Serife Bozkir, Fatma Cellatoglu

END OF DAY 2 TECHNICAL SESSION

DAY 2
07 SEPTEMBER 2023

15:15 – 16:30 TECHNICAL SESSION – 5D SALAMIS HALL (ONLINE)

Building Materials Engineering

Session Chair:	<i>Assoc. Prof. Dr. Tolga Çelik</i>	
15:15 – 15:30	ACE2023-009	Properties of Ilmenite-Heavyweight Concrete Subjected to Elevated Temperature. <i>Ahmed Mounir, Alaa Mohsen, AbdelMonem Soltan, Mohamed Kohail</i>
15:30 – 15:45	ACE2023-024	Impact of Climate Change on Binder Performance Selection in a Cold Region Environment. <i>Osama A. Abaza, Alexander Litvinchuk, Jesse Batac</i>
15:45 – 16:00	ACE2023-139	Investigation of Rutting Performance of Asphalt Binder Modified with New Boron-Containing Additive. <i>Merve Gülfer Bozdemir, Hacer Yeşilçiçek, Şeref Oruç</i>
16:00 – 16:15	ACE2023-147	Investigation of the Effect of Asphalt Binder Modified with the New Synthesized TOBO Additive on Rutting Performance. <i>Hacer Yeşilçiçek, Şeref Oruç, Merve Gülfer Bozdemir</i>
16:15 – 16:30	ACE2023-110	Alkali Activation of Stabilized Rammed Earth: A State-of-the-Art Review. <i>Maroan Elgallal, Ayse Pekrioglu Balkis</i>

16:30 – 17:45 TECHNICAL SESSION – 5E SALAMIS HALL (ONLINE)

Transportation Engineering

Session Chair:	<i>Assoc. Prof. Dr. Tolga Çelik</i>	
16:30 – 16:45	ACE2023-202	Investigation of the Usability of Basalt and Limestone Aggregates Obtained from Bitlis Region in Porous Asphalt Construction. <i>Alev Akilli El, Mehmet Yilmaz</i>
16:45 – 17:00	ACE2023-108	The Effects of Nano Expanded Vermiculite on Asphalt Binder Properties. <i>Mehmet Saltan, Gizem Kaçaroğlu, Öznur Karadağ</i>
17:00 – 17:15	ACE2023-107	Investigation of the Effect of Bio-char and Activated Carbon on the Physical Properties of Asphalt Binder <i>Mehmet Saltan, Öznur Karadağ, Gizem Kaçaroğlu</i>
17:15 – 17:30	ACE2023-062	Interactions Between Automated Shuttle, Vulnerable Road Users and Regular Vehicles: A Case Study in Bari, Italy. <i>S. Coropulis, N. Berloco, R. Gentile, P. Intini, P. Longo, V. Ranieri</i>
17:30 – 17:45	ACE2023-051	Optimal Pavement Design and Maintenance Approach Using HDM-4. <i>Amarendra Kumar Sandra, Pattabhiram Yegulla, J Janardhan</i>

DAY 2
07 SEPTEMBER 2023

17:45 – 18:45

TECHNICAL SESSION – 5F

SALAMIS HALL (ONLINE)

Hydraulics Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

17:45 – 18:00

ACE2023-071

Extremely High vs Average Climate Forecast: Impact on Thermal Performance in Urban Areas.

Berk Adali, Yigit Can Altan

18:00 – 18:15

ACE2023-092

Nonstationary Modelling of Low Flows in Çoruh Basin.

Muhammet Yılmaz, Fatih Tosunoğlu

18:15 – 18:30

ACE2023-093

Evaluation of low flows in Çoruh Basin.

Muhammet Yılmaz, Fatih Tosunoğlu

18:30 – 18:45

ACE2023-120

Examination of the Long-Term Drought Variability of the Continental Climate Regions Using Discrepancy Precipitation Index: The Case of Karaman Station Data, Türkiye.

Serin Değerli Şimşek, Evren Turhan

END OF DAY 2 ONLINE TECHNICAL SESSIONS

DAY 3
08 SEPTEMBER 2023

09:00 **Poster Presentation**

09:30 – 10:45

TECHNICAL SESSION – 6A

GRAND HALL

Structural & Earthquake Engineering

Session Chair:

Assoc. Prof. Dr. Mehmet Cemal Genes

09:30 – 09:45

ACE2023-238

Systems for Monitoring a Bridge Using Wireless Sensor Networks.

Gokhan Kilic, Gokhan Altindas, Zafer Kutug, Dila Çiğdem

09:45 – 10:00

ACE2023-242

Utilizing Shear Walls Constructed with a Blend of Crushed Waste Tire Rubber for Seismic Assessment and Retrofitting of an Existing RC Building.

Abdullah R. M. Alariyan, Mehmet C. Genes

10:00 – 10:15

ACE2023-244

3D Soil-Structure-Pile Interaction Analysis for Heterogeneous Soil Medium.

Yasin Fahjan, Fatma İlknur Kara

10:15 – 10:30

ACE2023-214

Seismic Performance Assessment of Reinforced Concrete Building Stock Using Artificial Neural Network and Linear Regression Analysis.

Oğuz Karayel, Giray Özay

10:30 – 10:45

ACE2023-220

The Effect of Foundations Uplift on the Seismic Behavior of Multi-Story Regular RC Buildings.

Amir Amirbeygloo, Mahmood Hosseini

10:45 – 11:00

COFFEE BREAK

09:30 – 11:00

TECHNICAL SESSION – 6B

SALAMIS HALL (ONLINE)

Hydraulics Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

09:30 – 09:45

ACE2023-143

Investigation of Interaction Between Pressure Relief Valve and Turbines During a Transient Flow in a Hydropower Plant

Mehmet Ali Çetintaş, Zafer Bozkuş, Kutay Çelebioğlu

09:45 – 10:00

ACE2023-199

Investigating the Efficacy of Large-Scale Particle Image Velocimetry for Controlled Water Resource Management: An Experimental Approach.

Cahit Yerdelen, Mohamed Abdelkader, Ebru Eriş, Ömer Aşikoğlu, Harun Alp

10:00 – 10:15

ACE2023-207

On the Effect of Soil-Structure Interaction on the Seismic Behavior of a Reinforced Concrete Gravity Dam.

Dahmani Amina, Hemsas Miloud, Hentri Mohammed

10:15 – 10:30

ACE2023-047

Evaluating Urban Runoff in a Catchment of Güzelyurt: A Comparative Analysis of Traditional and LID Approaches.

Mirza Mohammed Abdul Basith Baig, Bertuğ Akıntuğ

10:30 – 10:45

ACE2023-142

Introduction of a Computer Software (S-Hammer) Developed to Analyze Fluid Transients in Pipelines.

Saber Habibi Topraghaleh, Zafer Bozkuş

11:00 – 11:15

COFFEE BREAK

DAY 3
08 SEPTEMBER 2023

11:15 – 12:00 **KEYNOTE: Structural Engineering** **GRAND HALL**
Prof. Dr. Abbas Aminmansour [University of Illinois at Urbana-Champaign]

Session Chair: Prof. Dr. *Mahmood Hosseini*

12:00 – 13:15 LUNCH

13:30 – 16:30 **EARTHQUAKE PANEL** **GRAND HALL**

Moderator: Prof. Dr. *Özgür Eren*

KEYNOTE I:

Prof. Dr. Yasin Fahjan [Istanbul Technical University]

KEYNOTE II:

Assoc. Prof. Dr. Zehra Çağnan Ertuğrul [Middle East Technical University]

KEYNOTE III:

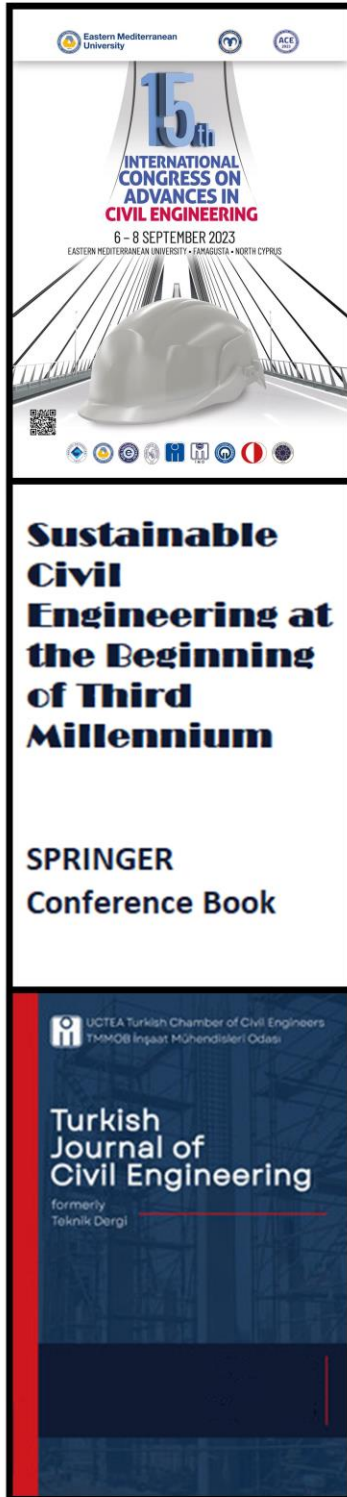
Prof. Dr. Serhan Şensoy [Eastern Mediterranean University]

19:00 – 22:00 **CLOSING COCKTAIL PARTY at BEACH CLUB**

POSTER PRESENTATIONS

DAY1	→	13:15	Poster Presentations	Exhibition Area
DAY 2	→	09:00		
DAY 3	→	09:00		
Building Materials Engineering				
ACE2023-169			Assessment of the Durability of Mortar Containing Treated Granulated Rubber. <i>Kechkar Chiraz, Benamara Fatima Zohra, Nigri Ghania, Hebhoub Houria, Mouloud Belachia</i>	
ACE2023-204			Modified Solutions Obtained by Activation in High-Energy Devices. <i>Oleg Figovsky, Ruslan Ibragimov, Evgenij Korolev, Valentin Ushkov</i>	
Hydraulics Engineering				
ACE2023-123			Water Management on the Croatian Islands: New Challenges and Needs. <i>Igor Ljubenkov</i>	
Structural & Earthquake Engineering				
ACE2023-043			3D Finite Element Modelling of Mechanical Behaviour of Functionally Graded Material Beams. <i>Khaled Boumezbeur, Mourad Khebizi, Mohamed Guenfoud, Ilies Guendouz</i>	
ACE2023-063			A Refined Beam Theory for the Static Analysis of A Thin-Walled Profile. <i>Guendouz Ilies, Guenfoud Hamza, Bakhouché Marwa, Khebizi Mourad, Boumezbeur Khaled, Guenfoud Mohamed</i>	

PUBLICATIONS



Congress Proceedings Book

Springer Conference Book

Turkish Journal of Civil Engineering

SPONSORS



BOĞAZ ENDÜSTRİ ve MADENCİLİK LTD.

BEM (Boğaz Endüstri ve Madencilik LTD)



DAÜ-PERSEN



DAÜ-SEN



Deniz Plaza



Doğu Akdeniz Üniversitesi Rektörlüğü



Ekin Adademir İthalat & İhracat Şirketi



EKOR Un Ürünleri Sanayi Ltd.



Kıbrıs Türk İnşaat Mütcahhitleri Birliğı (KTİMB)



Kıbrıs Türk Kooperatif Merkez Bankası Ltd.



Kıbrıs Türk Otelciler Birliğı



KKTC Merkez Bankası



K.T.M.M.O.B
İNŞAAT MÜHENDİSLERİ ODASI
CHAMBER OF CIVIL ENGINEERS

KTMMOB-İMO (İnşaat Mühendisleri Odası)



Petek Pastahanesi



Tüfekçi Group

