



Eastern Mediterranean
University



15th

INTERNATIONAL
CONGRESS ON
ADVANCES IN
CIVIL ENGINEERING

**CONGRESS
PROGRAM**

6 – 8 SEPTEMBER 2023

EASTERN MEDITERRANEAN UNIVERSITY • FAMAGUSTA • NORTH CYPRUS



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WELCOME MESSAGE

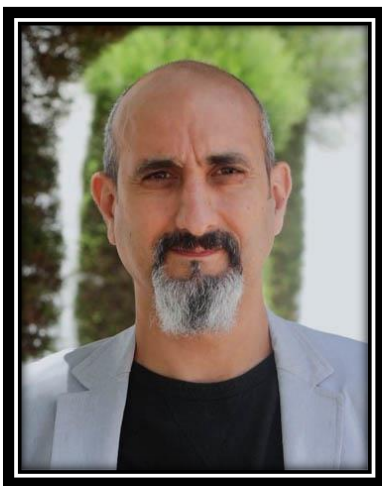
Dear Colleagues,

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 Üniversitesi, 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

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- Aalto University
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Zeynep IŞIK	Yıldız Technical University

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





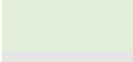
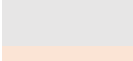


**CIVIL ENGINEERING
EDUCATION**

CONGRESS VENUE



 Rauf Raif Denktaş Culture and Congress Centre

CONGRESS HALLS

	BIG HALL
	SMALL HALL
	ARSINOE HALL
	LAMBOUSA HALL
	SOLI HALL
	SALAMIS HALL

GENERAL PROGRAM

DAY 1				
06 SEPTEMBER 2023				
08:00	Registration			
10:00 – 11:00	Opening Ceremony -Opening Speeches			
	Coffee Break [11:00 – 11:15]			
11:15 – 12:00	Keynote Big Hall Earthquake Engineering Prof Dr. Yasin Fahjan			
	Lunch [12:00 – 13:15]			
13:15	Poster Presentation			
13:15 – 14:45	Technical Sessions			
Big 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			
Arsinoe Hall	Lambousa Hall	Soli 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		
Small Hall	Arsinoe Hall	Lambousa Hall	Salamis Hall Online
Structural and Earthquake	Hydraulics	Transportation	Geotechnis
Coffee Break [10:30 – 10:45]			
10:45 – 12:15	Technical Session		
Small Hall	Arsinoe Hall	Lambousa Hall	Salamis Hall Online
Structural and Earthquake	Transportation	Hydraulic	Geotechnical Building Materials
Lunch [12:30 – 13:30]			
13:30 – 14:15	Keynote		
Big Hall	Building Materials		
	Prof Dr. Özgür Yaman		
14:15 – 15:00	Keynote		
Big Hall	Prof Dr. Manousos Valyrakis		
Coffee Break [15:00 – 15:15]			
15:15 – 16:45	Technical Session		
Small Hall	Arsinoe Hall	Lambousa Hall	Salamis Hall Online
Structural and Earthquake	Building Materials	Construction Management	Materials Transportation
END OF DAY 2			

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

DAILY PROGRAMMES

DAY 1 06 SEPTEMBER 2023		
08:00	On-Site Registration	
10:00 – 11:00	Opening Ceremony Opening Speeches:	BIG HALL
	<ul style="list-style-type: none"> Prof. Dr. <i>Umut Türker</i>, Congress Chairperson, EMU Assoc. Prof. Dr. <i>Eriş Uygar</i>, Chairperson Civil Engineering Department, EMU Prof. Dr. <i>Hüseyin Özkaramanlı</i>, Dean of Engineering Faculty, EMU Prof. Dr. <i>Aykut Hoca'nın</i>, Rector, EMU 	
11:00 – 11:15	COFFEE BREAK	
11:15 – 12:00	KEYNOTE: Earthquake Engineering <i>Prof. Dr. Yasin Fahjan</i> [İstanbul Technical University] Session Chair: Assoc. Prof. Dr. <i>Giray Özyay</i>	BIG HALL
12:00 – 13:15	LUNCH	
13:15	Poster Presentation	
13:15 – 14:45	TECHNICAL SESSION - I Structural & Earthquake Engineering	BIG HALL
Session Chair:	<i>Prof. Dr. Müride 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 Özyay</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>	
14:45 – 15:00	COFFEE BREAK	

DAY 1
06 SEPTEMBER 2023

13:15 – 14:45	TECHNICAL SESSION - I	SMALL HALL
Building Materials Engineering		
Session Chair:	<i>Assoc. Prof. Dr. Tülin Akçaoğlu</i>	
13:15 – 13:30	ACE2023-001	Surface Treatment of Rubber Particles with Sodium Hydroxide Solution for Use in Cement Bound Base Course. <i>Matija Zvonarić, Martina Zagvozda, Ivana Barišić, Lora Babić</i>
13:30 – 13:45	ACE2023-068	Influence of Short Polyethylene Terephthalate Fibres on Mechanical and Physical Properties of Cementitious Mortars. <i>Can Özgün Sayı, Necat Özaşık, Özgür Eren</i>
13:45 – 14:00	ACE2023-090	A Comparison and Review of Studies on Chemical Accelerator Admixtures in Concrete. <i>Farzin Asgharpour, Khaled Hamed Marar</i>
14:00 – 14:15	ACE2023-114	Development of Low-Carbon Oxalate Cement Using Copper Slag. <i>Baki Aykut Bilginer, Sinan T. Erdoğan</i>
14:15 – 14:30	ACE2023-240	Influence of Binary Use of Antifreeze Admixtures on The Early-Age Frost Resistance of Self-Compacting Concretes. <i>Ali Öz, Fatma Karagöl, Rıza Polat, Cemal Karaaslan</i>
14:30 – 14:45	COFFEE BREAK	

13:15 – 14:45	TECHNICAL SESSION - I	ARSINOE HALL
Geotechnical Engineering		
Session Chair:	<i>Prof. Dr. Huriye Bilsel</i>	
13:15 – 13:30	ACE2023-014	Improving Geotechnical Monitoring System Performances by Integrating Advanced Technologies for Data Acquisition and Elaboration. <i>Andrea Segalini, Alessandro Valletta, Marco Conciatori, Andrea Carri</i>
13:30 – 13:45	ACE2023-048	Linear Equivalent Seismic Response of a Surface Foundation Excited by a Harmonic Rayleigh Wave. <i>Badreddine Sbartaı, Hamoudi Belkhir</i>
13:45 – 14:00	ACE2023-095	Automated Extraction of Geotechnical Data from PDF Reports and Kriging Application. <i>Nouhayla Bouayach, Fouzia Kassou, Mustapha Rguig, Hajar Zoubir</i>
14:00 – 14:15	ACE2023-105	Utilization of Recycled Concrete Sand in Soil Stabilization. <i>Victor Temiloluwase Ojotisa, Shihab Ibrahim</i>
14:15 – 14:30	ACE2023-127	Stability Analysis of Akiali Landslide (Jebha, North of Morocco). <i>Houda Merouani, Abdellilah Dekayir, Mohamed Rouai, Mohamed Ben Haddou</i>
14:45 – 15:00	COFFEE BREAK	

DAY 1
06 SEPTEMBER 2023

13:15 – 14:45	TECHNICAL SESSION - II	SALAMIS HALL (ONLINE)
Structural & Earthquake Engineering		
Session Chair:	<i>Assoc. Prof. Dr. Tolga Çelik</i>	
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>
14:45 – 15:00	COFFEE BREAK	

15:00 – 16:30	TECHNICAL SESSION - III	ARSINOE HALL
Structural & Earthquake Engineering		
Session Chair:	<i>Assoc. Prof. Dr. Giray Özyay</i>	
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, Sajjan Moideen, Nirmal Singh, Biswajit Basu</i>
15:15 – 15:30	ACE2023-041	CFRP Rope Systems for Enhancing Flexural and Shear Performances of Heat-Damaged Beams. <i>Rami H. Haddad, Ala A. Alsahalen</i>
15:30 – 15:45	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 Zaeyoun, Mahmood Hosseini, Heniyeh Okhovat</i>
15:45 – 16:00	ACE2023-045	The Effect of Masonry Infills on the Performance of Steel Frames. <i>Elif Nazlı Akbas, Murude Celikag, Ashraf M. L. Milad</i>
16:00 – 16:15	ACE2023-073	A Simple Procedure to Approximate Fundamental Mode Period of Vibration. <i>Abdul Hakim Chikho</i>

END OF DAY 1 TECHNICAL SESSION

DAY 1
06 SEPTEMBER 2023

15:00 – 16:30	TECHNICAL SESSION - I	LAMBOUSA HALL
Hydraulics Engineering		
Session Chair: Prof. Dr. <i>Mustafa Ergil</i>		
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 Zaifoğlu</i>

END OF DAY 1 TECHNICAL SESSION

15:00 – 16:30	TECHNICAL SESSION - I	SOLI HALL
Transportation Engineering		
Session Chair: Assoc. Prof. Dr. <i>Mehmet Metin Kunt</i>		
15:00 – 15:15	ACE2023-237	Analyzing the Influence of Meteorological Factors on Asphalt Pavement Temperature. <i>Tahsin Baykal, Fatih Ergezer, Ekinhan Eriskin, Serdal Terzi</i>
15:15 – 15:30	ACE2023-179	Developing a Decision Support System for Roadside Restraint Systems (RRSs) Design. <i>Ege Cem Saltık, Abdurrahman Sinan Alemdar, Hediye Tuydes-Yaman</i>
15:30 – 15:45	ACE2023-163	An Evaluation of Electric Vehicle Performance in Extreme Weather Conditions and HVAC Use. <i>Hazal Ergül, Hediye Tuydes-Yaman</i>
15:45 – 16:00	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>
16:00 – 16:15	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 – 15:45 TECHNICAL SESSION - IV 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 Rocio Marti-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 – 16:45 TECHNICAL SESSION - I SALAMIS HALL (ONLINE)

Construction Management Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

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|---------------|-------------|--|
| 15:45 – 16:00 | 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> |
| 16:00 – 16:15 | ACE2023-099 | A Systematic Literature Review on Blockchain Technology for Construction Contract Management.
<i>Ahmet Karacıgan, Beliz Özorhon</i> |
| 16:15 – 16:30 | ACE2023-124 | Quantification of Causes for Rework in Turkish Construction Industry.
<i>Eda Nur Erdem, Gülden Gümüşburun Ayalp</i> |
| 16:30 – 16:45 | ACE2023-203 | Cost Overrun Analysis in Road projects: Insights from ADB Funded Projects.
<i>Iman Youssefi, Tolga Celik</i> |

END OF DAY 1 ONLINE TECHNICAL SESSIONS

DAY 2

07 SEPTEMBER 2023

09:00 Poster Presentation

09:00 – 10:30	TECHNICAL SESSION - V	SMALL HALL
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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. <i>Fırat Sondilek, Egemen Sönmez, Ali Şahin Taşlıgedik</i>
09:15 – 09:30	ACE2023-097	Using Vertical Seismic Isolation by Dividing the Building's Structure into Interactive Parts. <i>Samira Yazdani, Mahmood Hosseini, Masoud Nekooei</i>
09:30 – 09:45	ACE2023-113	Seismic Behavior of Corrosion Damaged Reinforced Concrete Columns Under Combined Loadings. <i>Elif Nazlı Akbas, Serhan Sensoy, Ozgur Eren</i>
09:45 – 10:00	ACE2023-117	Seismic Performance of RC Frame with Different Types of Slabs using Non-linear Time History. <i>Mahmoud Eissa, Murude Celikag</i>
10:00 – 10:15	ACE2023-129	Identification of the Tensile Properties of Concrete in Pre-Stressed Beams Subjected to Four-Point-Bending Test. <i>Gabriella Bolzon, Mohammad Hajjar, Emanuele Zappa</i>
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 <i>Farid Abed</i>

10:30 – 10:45 COFFEE BREAK

09:00 – 10:30	TECHNICAL SESSION - II	ARSINOE HALL
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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. <i>Richard Walls, Yohannes Shewalul, Adewumi John Babafemi, Natalia Flores-Quiroz</i>
09:15 – 09:30	ACE2023-130	Structures and Performance of Agro-based Ternary Blends in Concrete – A State of the Art Review. <i>Christopher Fapohunda, Oluwatoyin Osanyinlokun, Adekunle Abioye</i>
09:30 – 09:45	ACE2023-159	A Review Paper About Test Methods Used/Developed for Fresh and Hardened Properties of High Strength Concrete. <i>Farzin Asgharpour, Özgür Eren, Efekan Ünal, Yahya Abdullah Mohammed Muaamar</i>
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. <i>Omid Deldar, Behnam Rafie, Khaled Marar, Tülin Akçaoğlu</i>

10:30 – 10:45 COFFEE BREAK

DAY 2
07 SEPTEMBER 2023

09:00 – 10:30	TECHNICAL SESSION - II	LAMBOUSA HALL
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Geotechnical Engineering

Session Chair:

Assist. Prof. Dr. Abdullah Ekinici

09:00 – 09:15	ACE2023-119	Undrained Spherical Expansion Analysis for Clay. <i>Vincenzo Silvestri, Claudette Tabib</i>
09:15 – 09:30	ACE2023-140	Prediction of the Simple Compressive Strength of Clay Soils Improved by Lime and Gypsum Using the ANN Application. <i>Yasmina Kellouche, Hamid Gadouri, Walid Teldjoune, Yazid Chetbani</i>
09:30 – 09:45	ACE2023-153	Slopes with Groundwater Level Changes by Precipitation Under Different Loads. <i>Baran Toprak, Murat Pinarlik</i>
09:45 – 10:00	ACE2023-185	Effect of Stress History on Lateral Earth Pressure Coefficient At Rest Analysis Through Discrete Elements Method. <i>Khellaf Abdelghani, Mansouri Mouloud</i>
10:00 – 10:15	ACE2023-031	Dynamic Response of Shallow Mat Footings on Coir Geotextile Reinforced Sand Under Cyclic Loading <i>Mohamad Hanafi, Abdullah Ekinici</i>
10:15 – 10:30	ACE2023-215	Seismic Site Response Analysis of the Famagusta Region: Investigation of Amplification and Attenuation Characteristics of the Local Soil Strata. <i>Hamza Saeed, Eris Uygur, Zalihe Nalbantoglu</i>

10:30 – 10:45	COFFEE BREAK
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09:00 – 10:30	TECHNICAL SESSION - III	SALAMIS HALL (ONLINE)
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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. <i>Reem Alqaisi, Thang Minh Le, Hadi Khabbaz</i>
09:15 – 09:30	ACE2023-053	Effect of Colemanite and Glass Fiber on the Compressibility and Swelling Pressure of Bentonite Clay. <i>Yusuf Batuge, Sukran Gizem Alpaydin, Yeliz Yukselen-Aksoy</i>
09:30 – 09:45	ACE2023-056	Passive Earth Reinforcement for Lateral Equilibrium Optimization. <i>Tarik Solomon Teshome, Zehra Nil Kutlu, Aykut Şenol, İsmail Emrah Kılıç</i>
09:45 – 10:00	ACE2023-059	An Assessment of Shrinkage Characteristics of Cementitiously Stabilized Granular Material for Pavement Layers. <i>Samir Saurav, Sanjeev Sinha, Anish Kumar</i>
10:00 – 10:15	ACE2023-089	Active and Passive Pressures Acting on Smooth Circular Shafts. <i>Abdelmadjid Meftah, Naima Benmebark, Sadok Benmebark</i>

10:30 – 10:45	COFFEE BREAK
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DAY 2
07 SEPTEMBER 2023

10:45 – 12:15	TECHNICAL SESSION - VI	SMALL HALL
Structural & Earthquake Engineering		
Session Chair:	<i>Assist. Prof. Dr. Umut Yıldırım</i>	
10:45 – 11:00	ACE2023-118	Comparison of the Seismic Behavior of RC Frame with Wide Beam and Deep Beam Non-linear Time History. <i>Mahmoud Eissa, Murude Celikag</i>
11:00 – 11:15	ACE2023-150	Machine Learning-Based Structural Health Monitoring of Dams. <i>Gabriella Bolzon, Caterina Nogara</i>
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). <i>Filip Pachla, Tadeusz Tatara, Waseem Aldabbik</i>
11:30 – 11:45	ACE2023-161	A Study on the Safety Assessment of the Base Isolation System Regarding the Ductile Behavior of the Superstructure. <i>Soheil Ramezani</i>
11:45 – 12:00	ACE2023-165	Analysis of Cable-Net Systems for Glass Facades. <i>Vitalii Komlev, Josef Machacek</i>
12:00 – 12:15	ACE2023-197	Indicators Affecting the Design of Subway Stations to be More Responsive in Emergencies. <i>Mahshid Doostmohamadian, Mahmood Hosseini</i>
12:15 – 13:30	LUNCH	

10:45 – 12:15	TECHNICAL SESSION - II	ARSINOE HALL
Transportation Engineering		
Session Chair:	<i>Assoc. Prof. Dr. Hediye Tüye Yaman</i>	
10:45 – 11:00	ACE2023-221	Tracing Back the Energy Use in Transportation Systems and Modes: An Energy-Balance Methodology for Turkey. <i>Hediye Tuydes-Yaman, Gulcin Dalkic-Melek, Egecem Saltik, Kemal Sarica</i>
11:00 – 11:15	ACE2023-152	Development of Pavement Condition Prediction Models in Urban Areas Using Micro PAVER. <i>Turki I. Al-Suleiman Obaidat, Linda Zaid Abu Ghazaleh</i>
11:15 – 11:30	ACE2023-151	Modelling Shared Bicycle Demand Using Artificial Neural Networks. <i>Selim Dünder, Pelin Alcan Gezginci, Gürkan Günay, Elçin Mert4, Ersoy Soyer</i>
11:30 – 11:45	ACE2023-141	Use of Synthetic Fiber in Asphalt Pavements Mini Review. <i>Halime Solak, Erol İskender, Atakan Aksoy, Cansu İskender</i>
11:45 – 12:00	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>
12:00 – 12:15	ACE2023-051	Optimal Pavement Design and Maintenance Approach Using HDM-4. <i>Amarendra Kumar Sandra, Pattabhiram Yegulla, J Janardhan</i>
12:15 – 13:30	LUNCH	

DAY 2
07 SEPTEMBER 2023

10:45 – 12:00	TECHNICAL SESSION - II	LAMBOUSA HALL
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Hydraulic Engineering

Session Chair:

Chair: Asst. Prof. Dr. Hasan Zaifoglu

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|---------------|-------------|--|
| 10:45 – 11:00 | ACE2023-178 | Determination of Sediment Transport of Coruh River by Field Observation and RUSLE Method.
<i>Kutay Yılmaz, Saber Habibi Topraghghaleh, Yakup Darama, Nazmi Kağrıoğlu</i> |
| 11:00 – 11:15 | ACE2023-193 | Flood Risk Mapping with Entropy Based Methods.
<i>Filiz Vargün, Türcay Baran, Filiz Barbaros</i> |
| 11:15 – 11:30 | ACE2023-230 | Daily Rainfall Characteristics in Sudan: Statistical Analysis and Modelling.
<i>Youssef Kassem, Hüseyin Gökçekuş, Mohamed Elmustafa Elmubarak Elawad Hassan</i> |
| 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.
<i>Youssef Kassem, Hüseyin Gökçekuş, Nour Alijl</i> |

12:15 – 13:30	LUNCH	
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10:45 – 11:45	TECHNICAL SESSION - IV	SALAMIS HALL (ONLINE)
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Geotechnical Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

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|---------------|-------------|---|
| 10:45 – 11:00 | ACE2023-115 | Thermal Modeling of the Buffer Around Nuclear Waste Repository.
<i>Esra Güneri, Yeliz Yükselen Aksoy</i> |
| 11:00 – 11:15 | ACE2023-126 | An Experimental Study on the Usability of Reclaimed Asphalt Pavements or Waste Bricks in the Stone Columns.
<i>Talha Sarici, Bahadır Ok, Nurullah Akbulut, Ahmet Haydar Cenk</i> |
| 11:15 – 11:30 | ACE2023-223 | Use of Recycled Aggregates from Derived Construction and Demolition Waste in the Highway Base Layer.
<i>Perihan Biçer, Burak Kılıç</i> |
| 11:30 – 11:45 | ACE2023-042 | Micromechanical Modeling of the Dynamic Response of a Sand Deposit.
<i>Said Derbane, Mouloud Mansouri, Salah Messast, A. El Malki Alaoui</i> |

11:45 – 12:30	TECHNICAL SESSION - III	SALAMIS HALL (ONLINE)
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Building Materials Engineering

Session Chair:

Assoc. Prof. Dr. Tolga Çelik

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|---------------|-------------|---|
| 11:45 – 12:00 | ACE2023-005 | Strength and Fresh Properties of Self-Compacting Concrete Containing Coarse Electric Arc Furnace Slag Aggregate.
<i>Saeid Moghimi, Cihat Yüksel, Özge Andıç Çakır, Kambiz Ramyar</i> |
| 12:00 – 12:15 | ACE2023-007 | Mechanical Properties and Expansion Behaviour of ASR Affected Concrete.
<i>Saeid Moghimi, Cihat Yüksel, Kambiz Ramyar</i> |
| 12:15 – 12:30 | ACE2023-110 | Alkali Activation of Stabilized Rammed Earth: A State-of-the-Art Review.
<i>Maroan Elgallal, Ayse Pekrioglu Balkis</i> |

12:30 – 13:30	LUNCH	
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DAY 2 07 SEPTEMBER 2023

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

Session Chair: *Prof. Dr. Özgür Eren*

14:15 – 15:00 **KEYNOTE 2: Hydraulics** **BIG 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 - VII** **SMALL HALL**

Structural and Earthquake Engineering

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

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 Cenani 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, Ahdad 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 - IV ARSINOE HALL

Building Materials Engineering

Session Chair: Assoc. Prof. Dr. *Ertuğ Aydın*

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|---------------|-------------|--|
| 15:15 – 15:30 | ACE2023-188 | Compressive Strength Assessment of Brick Waste-based Geopolymer Concrete.
<i>Gurkan Yildirim, Musab Alhawati, Emircan Ozcelikci, Ashraf Ashour</i> |
| 15:30 – 15:45 | ACE2023-217 | Effect of Reactive MgO Substitution on Strength Development and Microstructure Properties of Sodium Carbonate Activated Slag-Based Systems.
<i>Ömer Can Özen, Didem Oktay, Büşra Aktürk</i> |
| 15:45 – 16:00 | ACE2023-229 | Performance Comparison Between Synthetic and Natural Fiber Reinforced Wood Ash Cement Composite Pastes.
<i>Sevket Can Bostanci, Hasan Dilek</i> |
| 16:00 – 16:15 | ACE2023-241 | Alternative Approaches for Sustainable Concrete Construction.
<i>Ash Bardak</i> |

END OF DAY 2 TECHNICAL SESSION

15:15 – 17:00 TECHNICAL SESSION - II LAMBOUSA HALL

Construction Management Engineering

Session Chair: Prof. Dr. *Tahir Çelik*

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|---------------|-------------|--|
| 15:15 – 15:30 | ACE2023-181 | Digital Quality Management System for Construction: The Role of Smart Cameras.
<i>Zanyar Abdullah, Tahir Çelik, Tolga Celik</i> |
| 15:30 – 15:45 | 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> |
| 15:45 – 16:00 | ACE2023-158 | Supervisor's and Co-workers' Safety Climate of Building Construction Workers.
<i>Serkan Aydınlı, Selman Aslan</i> |
| 16:00 – 16:15 | ACE2023-138 | Resilience in Construction Industry and Its Role in Upgrading the Quality of Post-Earthquake Sheltering and Reconstruction.
<i>Mahmood Hosseini, Yasamin O. Izadkhah, Peyman Pir-Ata</i> |
| 16:15 – 16:30 | ACE2023-131 | Construction and Demolition Waste Processing for A Circular Construction Model: An Overview and Comparison Between On-Site and Off-Site Recycling.
<i>Hanan Al-Raqeb, Hammadhu H., Seyed Hamidreza Ghaffar, Anjali G.</i> |
| 16:30 – 16:45 | ACE2023-081 | Identification of Critical Factors in Design for Sustainability of Modular Constructions.
<i>Efkan Efehan, Tolga Celik, Onur B. Tokdemir</i> |
| 16:45 – 17:00 | ACE2023-164 | Enhancing Students' Comprehension in Building Structures: An Experimental Exploration of Augmented Reality Applications
<i>Salman Azhar, Guangyan Shao</i> |

END OF DAY 2 TECHNICAL SESSION

DAY 2

07 SEPTEMBER 2023

15:15 – 16:15		TECHNICAL SESSION - V	SALAMIS HALL (ONLINE)
		Building Materials Engineering	
Session Chair:		Assoc. Prof. Dr. <i>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 – 17:00		TECHNICAL SESSION - III	SALAMIS HALL (ONLINE)
		Transportation Engineering	
Session Chair:		Assoc. Prof. Dr. <i>Tolga Çelik</i>	
16:15 – 16:30	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>	
16:30 – 16:45	ACE2023-108	The Effects of Nano Expanded Vermiculite on Asphalt Binder Properties. <i>Mehmet Saltan, Gizem Kaçaroğlu, Öznur Karadağ</i>	
16:45 – 17:00	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>	
17:00 – 18:15		TECHNICAL SESSION - III	SALAMIS HALL (ONLINE)
		Hydraulics Engineering	
Session Chair:		Assoc. Prof. Dr. <i>Tolga Çelik</i>	
17:00 – 17:15	ACE2023-071	Extremely High vs Average Climate Forecast: Impact on Thermal Performance in Urban Areas. <i>Berk Adali, Yigit Can Altan</i>	
17:15 – 17:30	ACE2023-092	Nonstationary Low Flow Frequency Analysis in the Çoruh Basin. <i>Muhammet Yilmaz, Fatih Tosunoğlu</i>	
17:30 – 17:45	ACE2023-093	Evolution of Low Flows in the Çoruh Basin. <i>Muhammet Yilmaz, Fatih Tosunoğlu</i>	
17:45 – 18:00	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. <i>Serin Değerli Şimşek, Evren Turhan</i>	
18:00 – 18:15	ACE2023-142	Introduction of a Computer Software (S-Hammer) Developed to Analyze Fluid Transients in Pipelines. <i>Saber Habibi Topraghghaleh, Zafer Bozkuş</i>	
END OF DAY 2 ONLINE TECHNICAL SESSIONS			

DAY 3 08 SEPTEMBER 2023

09:00	Poster Presentation	
09:30 – 11:15	TECHNICAL SESSION - VIII	SMALL HALL
Structural & Earthquake Engineering		
Session Chair:	Assoc. Prof. Dr. Mehmet Cemal Genes	
09:30 – 09:45	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>
09:45 – 10:00	ACE2023-238	Systems for Monitoring a Bridge Using Wireless Sensor Networks. <i>Gokhan Kilic, Gokhan Altindas, Zafer Kutug, Dila Çiğdem</i>
10:00 – 10:15	ACE2023-242	Utilizing Shear Walls Constructed with a Blend of Crushed Waste Tire Rubber for Seismic Assessment and Retrofitting of an Existing RC Building. <i>Abdullah R. M. Alariyan, Mehmet C. Genes</i>
10:15 – 10:30	ACE2023-244	3D Soil-Structure-Pile Interaction Analysis for Heterogeneous Soil Medium. <i>Yasin Fahjan, Fatma İlknur Kara</i>
10:30 – 10:45	ACE2023-214	Seismic Performance Assessment of Reinforced Concrete Building Stock Using Artificial Neural Network and Linear Regression Analysis. <i>Oğuz Karayel, Giray Özay</i>
10:45 – 11:00	ACE2023-220	The Effect of Foundations Uplift on the Seismic Behavior of Multi-Story Regular RC Buildings. <i>Amir Amirbeygloo, Mahmood Hosseini</i>
11:00 – 11:15	ACE2023-245	Occupational Health and Safety Practices in North Cyprus. <i>Murude Celikag, Serife Bozkir, Fatma Cellatoglu</i>
11:15 – 11:30	COFFEE BREAK	
09:30 – 10:45	TECHNICAL SESSION - IV	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 <i>Mehmet Ali Çetintaş, Zafer Bozkuş, Kutay Çelebioğlu</i>
09:45 – 10:00	ACE2023-199	Investigating the Efficacy of Large-Scale Particle Image Velocimetry for Controlled Water Resource Management: An Experimental Approach. <i>Cahit Yerdelen, Mohamed Abdelkader, Ebru Eriş, Ömer Aşıkoğlu, Harun Alp</i>
10:00 – 10:15	ACE2023-207	On the Effect of Soil-Structure Interaction on the Seismic Behavior of a Reinforced Concrete Gravity Dam. <i>Dahmani Amina, Hemsas Miloud, Hentri Mohammed</i>
10:15 – 10:30	ACE2023-189	Estimation of Basin Water Balance Using SWAT Model. <i>Dineo Mollo, George Ndhlovu, Samuel Tetsoane</i>
10:30 – 10:45	ACE2023-047	Evaluating Urban Runoff in a Catchment of Güzelyurt: A Comparative Analysis of Traditional and LID Approaches. <i>Mirza Mohammed Abdul Basith Baig, Bertuğ Akıntuğ</i>
10:45 – 11:00	COFFEE BREAK	

DAY 3
08 SEPTEMBER 2023

11:15 – 12:00 **KEYNOTE: Structural Engineering** **BIG 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** **BIG HALL**

Moderator: Prof. Dr. *Özgür Eren*

KEYNOTE I:

Prof. Dr. Yasin Farjin [İstanbul Technical University]

KEYNOTE II:

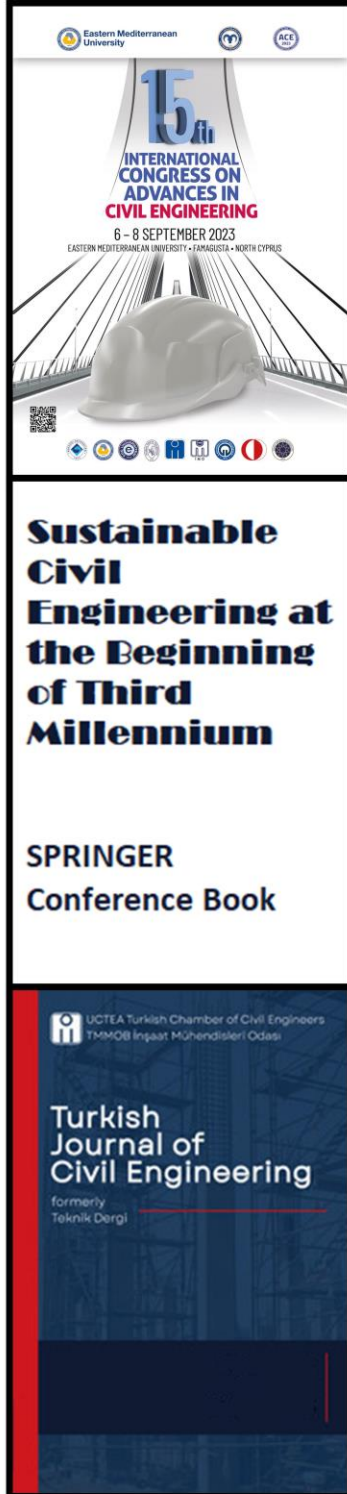
Assoc. Prof. Dr. Zehra Çağrı Ertuğrul [Middle East Technical University]

KEYNOTE III:

Prof. Dr. Serhan Şensoy [Eastern Mediterranean University]

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

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