







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 Üniversity, 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

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Umut Türker Özgür Eren Eriş Uygar

CONGRESS SECRETARIAT

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Yasin FAHJAN İstanbul Technical University

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Yusuf AYVAZ Yıldız Technical University Zafer KÜTÜĞ Yıldız Technical Üniversity

Zalihe N. SEZAİ 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.



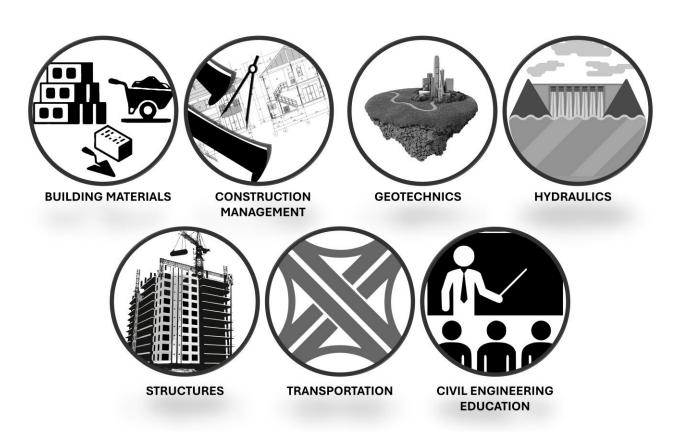
Prof. Dr. Yasin Fahjan,

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 İnsaat 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





CONGRESS VENUE





Rauf Raif Denktaş Culture and Congress Centre

CONGRESS HALLS

BIG HALL







ARSINOE HALL



SALAMIS HALL





GENERAL PROGRAM

DAY 1				
06 SEPTEMBER 2023				
08:00	Registration	1		
10:00 - 11:00	Openin	Opening Ceremony		
Big Hall		ening Speech	nes	
		e Break – 11:15]		
11:15 – 12:00	Keynot	e		
Big Hall	Earthqu	ake Enginee	ering asin Fahjan	
		nch	ioni i digan	
13:15	Poster Pres	- 13:15] entation		
13:15 -		cal Sessions		
14:45			0.1	
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 -		al Sessions		
16:30			0.1	
Big Hall	Small Hall	Arsinoe Hall	Salamis Hall Online	
Structural and Earthquake	Hydraulics	Transportation	Structural and Earthquake Construction Management	
3,	END O	F DAY 1	٠.	

DAY 2				
07 SEPTEMBER 2023				
09:00 Poster Presentation 09:00 - To be a fine from the control of				
10:30 Technical Sessions				
Big	Small	Arsinoe	Salamis	
Hall	Hall	Hall	Hall Online	
Structural and Earthquake	Building Materials	Geotechnics	Geotechnics	
		e Break – 10:45]		
10:45 -		l Session		
12:15 Big	Small	Arsinoe	Salamis	
Hall	Hall	Hall	Hall	
			Online	
Structural and Earthquake	Transportation	Hydraulic	Geotechnical Building Materials	
Lunch [12:30 – 13:30]				
13:30 – 14:15 Keynote				
Big	Hall		Materials	
14:15 -	- 15:00	Prof Dr. Öz	ynote	
	Hall	Prof Dr. Manousos		
8		Valge Break	yrakis	
		- 15:15]		
15:15 -		l Session		
16:45 Big	Small	Arsinoe	Salamis	
Hall	Hall	Hall	Hall	
d)			Online	
Structural and Earthquak	ials	onstruction Management	erial ion s	
Eart	Building Materials	ſana	Mat ortat aulic	
and	M gt	√ uc	ding inspi Iydr	
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JI.	END C	I DAI 2		

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DAY 3			
		MBER 2023	
09:00 Poste	er Presei	ntation	
11:15	Technic	al Sessions	
Big		Salamis	
Hall		Hall Online	
Structural and Earthquake		ic	
ural	e ·	[ydrau]	
ruct		Hyd	
Str			
Coffee Break			
	[11:15 – 11:30]		
11:15 – 12:00	Keynote	2	
Big Hall	Structur	al Engineering	
Prof. Dr. Abbas Aminmansour			
Lunch			
[12:00 – 13:15]			
13:30 – 16:30 EARTHQUAKE PANEL Big Hall KEYNOTE I:			
Dig Haii	110.	Prof Dr. Yasin Fahjan	
Big Hall	KEY	NOTE II :	
Assoc. Prof. Dr. Zehra Çağnan Ertuğr			
Big Hall KEYNOTE III:			
10:00 22:0	On Class	Prof Dr. Serhan Şensoy sing Cocktail Party at	
19:00 – 22:0		ch Club	
END OF DAY 3			



DAILY PROGRAMMES

		DAY 1 06 SEPTEMBER 2023
08:00 10:00 – 11:00	On-Site Registra	ation
10.00 — 11.00	Opening Speech Prof. Di Assoc. A Mr. Gün Prof. Di	
11:00 - 11:15	COFFEE BREA	K
11:15 — 12:00		Earthquake Engineering BIG HALL r. Yasin Fahjan [İstanbul Technical University]
	•	Assoc. Prof. Dr. Giray Özay
12:00 - 13:15	LUNCH	
13:15	Poster Presenta	tion
10.15 14.45		
13:15 — 14:45	TECHNICAL S	
13:15 – 14:45 Session Chair:	S	ESSION – IA BIG HALL Structural & Earthquake Engineering r. Mürüde Çelikağ
	S	Structural & Earthquake Engineering
Session Chair:	Prof. Di	Structural & Earthquake Engineering r. Mürüde Çelikağ Cost Estimation of Reinforced Concrete Buildings by Using Neural Network and Multi Regression Analysis.
Session Chair: 13:15 – 13:30	Prof. Di ACE2023-008	Structural & Earthquake Engineering T. Mürüde Çelikağ Cost Estimation of Reinforced Concrete Buildings by Using Neural Network and Multi Regression Analysis. Mohamad Abou Rajab, Giray Özay A Computational Model for the Analysis of 2D Beams and Frames Failure Based on Hardening and Softening Behaviors with an Incorporated Damage Model.
Session Chair: 13:15 – 13:30 13:30 – 13:45	Prof. Do ACE2023-008 ACE2023-012	Structural & Earthquake Engineering T. Mürüde Çelikağ Cost Estimation of Reinforced Concrete Buildings by Using Neural Network and Multi Regression Analysis. Mohamad Abou Rajab, Giray Özay A Computational Model for the Analysis of 2D Beams and Frames Failure Based on Hardening and Softening Behaviors with an Incorporated Damage Model. Mourid Elhoucine, Koulli Redhwane, Mamouri Said Effect of Steel Braces on Progressive Collapse Using Applied Element Method.

Damaged Concrete Agricultural Structure.

14:45 - 15:00

COFFEE BREAK

Richard Walls, Anene Oguaka, Gareth Jones

12



		DAY 1
		06 SEPTEMBER 2023
10.15	1.4.45	TECHNICAL CECCONI ID

UO SEP I EMBER 2023			
13:15 - 14:45	TECHNICAL S	ESSION – IB SMALL HAI	LL
		Building Materials Engineering	
Session Chair:	Assoc.	Prof. Dr. Tülin Akçaoğlu	
13:15 – 13:30	ACE2023-001	Surface Treatment of Rubber Particles with Sodium Hy for Use in Cement Bound Base Course. Matija Zvonarić, Martina Zagvozda, Ivana Bari	
13:30 – 13:45	ACE2023-068	Influence of Short Polyethylene Terephthalate Fibres and Physical Properties of Cementitious Mortars. Can Özgün Sayi, Necat Özaşik, Özgür Eren	on Mechanical
13:45 – 14:00	ACE2023-090	A Comparison and Review of Studies on Chemi Admixtures in Concrete. Farzin Asgharpour, Khaled Hamed Marar	cal Accelerator
14:00 – 14:15	ACE2023-114	Development of Low-Carbon Oxalate Cement Using (Baki Aykut Bilginer, Sinan T. Erdoğan	Copper Slag.
14:15 — 14:30	ACE2023-240	Influence of Binary Use of Antifreeze Admixtures or Frost Resistance of Self-Compacting Concretes. Ali Öz, Fatma Karagöl, Rıza Polat, Cemal Karad	

14:30 – 14:45 COFFEE BREAK

13:15 – 14:45	TECHNICAL S	ESSION - IC ARSINOE HALL
		Geotechnical Engineering
Session Chair:	Prof. Di	r. 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 Sbartai, Hamoudi Belkhir
13:45 — 14:00	ACE2023-095	Automated Extraction of Geotechnical Data from PDF Reports and Kriging Application.
		Nouhayla Bouayach, Fouzia Kassou, Mustapha Rguig, Haiar Zoubir
14:00 - 14:15	ACE2023-105	Utilization of Recycled Concrete Sand in Soil Stabilization.
		Victor Temiloluwase Ojotisa, Shihab Ibrahim
14:15 – 14:30	ACE2023-127	Stability Analysis of Akiali Landslide (Jebha, North of Morocco). Houda Merouani, Abdellilah Dekayir, Mohamed Rouai, Mohamed Ben Haddou
14:45 – 15:00	COFFEE BREA	K



DAY 1 06 SEPTEMBER 2023

13:15 – 14:45	TECHNICAL SI	ESSION – ID SALAMIS HALL (ONLINE)
Structural & Earthquake Engineering		
Session Chair: Assoc. Prof. Dr. Tolga Çelik		
ocosion Chan.	A330C. 1	Toj. Di. Toiga Çeuk
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. J. Martin Leal-Graciano, Juan J. Pérez-Gavilán, A. Reyes Salazar, J. L. Rivera Salas
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. Ayşe Elif Özsoy Özbay, Işıl Sanrı Karapınar, Hüseyin Can Ünen
14:00 — 14:15	ACE2023-184	Effect of Mass Irregularity on Seismic Performance of a Base-Isolated RC Building. Gökhan Özdemir, Fatmagül Ağlan, Anıl Gelmez, Barış Dilek, Esengül Çavdar
14:15 – 14:30	ACE2023-192	Finite Element Analysis on Axial Compressive Performance of RHHCFST Short Columns with Longitudinal Stiffeners. Zhijian Yang, Wenzhi Zuo
14:45 – 15:00	COFFEE BREA	K
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15:00 - 16:30	TECHNICAL SESSION – 2A	BIG HALL

	S	tructural & Earthquake Engineering
Session Chair:	Assoc. I	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. Mainak Ghosh Roy, Sajan Moideen, Nirmal Singh, Biswajit Basu
15:15 – 15:30	ACE2023-041	CFRP Rope Systems for Enhancing Flexural and Shear Performances of Heat-Damaged Beams. Rami H. Haddad, Ala A. Alsahalen
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. Mona Zaryoun, Mahmood Hosseini, Heniyeh Okhovat
15:45 – 16:00	ACE2023-045	The Effect of Masonry Infills on the Performance of Steel Frames. Elif Nazlı Akbas, Murude Celikag, Ashraf M. L. Milad
16:00 – 16:15	ACE2023-073	A Simple Procedure to Approximate Fundamental Mode Period of Vibration.

END OF DAY 1 TECHNICAL SESSION

Abdul Hakim Chikho



DAY 1 06 SEPTEMBER 2023

06 SEPTEMBER 2023			
15:00 - 16:30	TECHNICAL SI	ESSION – 2B SMALL HALL	
		Hydraulics Engineering	
Session Chair:	Prof. Di	: Mustafa Ergil	
15:00 - 15:15	ACE2023-050	Trends of Standard Duration Maximum Precipitation over the Last 30	
		Years in Kastamonu Province, Northern Turkey.	
		Fatma Akçay, Betül Mete, Murat Kankal, Adem Bayram	
15:15 - 15:30	ACE2023-070	Analysis of the Influencing Factors of Variation in Sediment	
		Concentration in the Lower Değirmendere Basin, Trabzon, Türkiye.	
		Osman Tuğrul Baki, Betül Mete, Ömer Yüksek	
15:30 - 15:45	ACE2023-100	Possible Effects of Climate Change on Seawater Temperatures: A Case	
		Study for Sanyer Meteorological Observation Station, Southwestern	
		Black Sea	
		Sinan Nacar, Betül Mete, Betül Sezanur Tokgöz, Adem Bayram	
15:45 - 16:00	ACE2023-125	Tracking Climate Change Impact on Droughts in Northern Cyprus	
		through Standardized Precipitation Index.	
		Ma'in Ghanem, Hasan Zaifoğlu	
16:00 - 16:15	ACE2023-137	Estimation of Design Rainfalls in Cyprus Under Nonstationary	
		Conditions.	
		Hasan Zaifoglu	

END OF DAY 1 TECHNICAL SESSION

15:00 - 16:30	TECHNICAL SI	ESSION – 2C ARSINOE HALL
		Transportation Engineering
Session Chair:	Assoc. I	Prof. Dr. Mehmet Metin Kunt
15:00 - 15:15	ACE2023-237	Analyzing the Influence of Meteorological Factors on Asphalt Pavement Temperature.
		Tahsin Baykal, Fatih Ergezer, Ekinhan Eriskin, Serdal Terzi
15:15 – 15:30	ACE2023-179	Developing a Decision Support System for Roadside Restraint Systems (RRSs) Design.
		Ege Cem Saltık, Abdurrahman Sinan Alemdar,
		Hediye Tuydes-Yaman
15:30 - 15:45	ACE2023-163	An Evaluation of Electric Vehicle Performance in Extreme Weather
		Conditions and HVAC Use.
		Hazal Ergül, Hediye Tuydes-Yaman
15:45 - 16:00	ACE2023-155	Investigating the Tensile Properties of Geocell Reinforced Pavement
		System Using a 2D FE Model
		Yalcin Karakaya, Dilay Yildirim, Uncu, Adem Ozer
16:00 - 16:15	ACE2023-010	Financial and Structural Innovations in Mega Transportation Projects in Türkiye. Efecan Ünal

END OF DAY 1 TECHNICAL SESSION



DAY 1
06 SEPTEMBER 2023

06 SEPTEMBER 2023				
15:00 - 15:45	TECHNICAL SE	SSION – 2D	SALAMIS HALL (ONLINE)	
	St	ructural & Earthquake Engii	neering	
Session Chair:	Assoc. Prof. Dr. Tolga Çelik			
15:00 – 15:15	ACE2023-212	· ·	es in an Aged Spanish Concrete Bridge. steu-Sánchez, José Rocío Martí-Vargas, egori	
15:15 – 15:30	ACE2023-243	Seismic Response and Re Bridge. <i>Liu Zixin</i>	liability Analysis of A High-Pier Rigid Frame	
15:30 – 15:45	ACE2023-034		uake Behavior of the Historical Aziziye sidering the 2022 Düzce-Gölyaka (Mw: 5.9)	

15:45 — 16:45	TECHNICAL SEC	SSION – 2E SALAMIS HALL (ONLINE) astruction Management Engineering
Session Chair:		rof. Dr. Tolga Çelik
15:45 – 16:00	ACE2023-074	A Review of the Application of Earn Value Method in Construction Industry.
		Muhammad Mubasher, Wei Tong Chen, Theresia Avila Bria, Ferdinan Nikson Liem
16:00 — 16:15	ACE2023-099	A Systematic Literature Review on Blockchain Technology for Construction Contract Management. Ahmet Karacığan, Beliz Özorhon
16:15 – 16:30	ACE2023-124	Quantification of Causes for Rework in Turkish Construction Industry.
		Eda Nur Erdem, Gülden Gümüşburun Ayalp
16:30 – 16:45	ACE2023-203	Cost Overrun Analysis in Road projects: Insights from ADB Funded Projects.
		Iman Youssefi, Tolga Celik

END OF DAY 1 ONLINE TECHNICAL SESSIONS



09:00	Poster	
09:00 - 10:30	TECHNICAL S	
		Structural & Earthquake Engineering
Session Chair:	Assoc.	Prof. Dr. Mehmet Cemal Geneş
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 Hajjar, Emanuele Zappa
10:15 - 10:30	ACE2023-025	Effect of Glass Fiber Reinforced Polymer Reinforcement Ratio on the
10.10 10.00	11012020 020	
10:30 - 10:45	COFFEE BREA	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed
10:30 - 10:45	COFFEE BREA	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K
		Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K ESSION – 3B SMALL HALL
10:30 - 10:45 09:00 - 10:30	COFFEE BREA	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K
10:30 - 10:45 09:00 - 10:30	COFFEE BREA	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K ESSION – 3B SMALL HALL Building Materials Engineering r. Khaled Marar Eco-friendly vs Fire Safe? Conceptualising Fire Risk for Construction Systems Incorporating Plastic, Rubber and Biomass.
10:30 – 10:45 09:00 – 10:30 Session Chair:	COFFEE BREA TECHNICAL S Prof. D.	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K ESSION – 3B SMALL HALL Building Materials Engineering Khaled Marar 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 Structures and Performance of Agro-based Ternary Blends in Concrete – A State of the Art Review. Christopher Fapohunda, Oluwatoyin Osanyinlokun,
10:30 – 10:45 09:00 – 10:30 Session Chair: 09:00 – 09:15	COFFEE BREA TECHNICAL S Prof. D ACE2023-132	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K ESSION – 3B SMALL HALL Building Materials Engineering Khaled Marar 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 Structures and Performance of Agro-based Ternary Blends in Concrete – A State of the Art Review. Christopher Fapohunda, Oluwatoyin Osanyinlokun, Adekunle Abioye A Review Paper About Test Methods Used/Developed for Fresh and Hardened Properties of High Strength Concrete.
10:30 - 10:45 09:00 - 10:30 Session Chair: 09:00 - 09:15 09:15 - 09:30	COFFEE BREA TECHNICAL S Prof. D ACE2023-132 ACE2023-130	Shear Performance of Ultra High Performance Concrete Deep Beams Farid Abed K ESSION – 3B SMALL HALL Building Materials Engineering The Khaled Marar 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 Structures and Performance of Agro-based Ternary Blends in Concrete – A State of the Art Review. Christopher Fapohunda, Oluwatoyin Osanyinlokun, Adekunle Abioye A Review Paper About Test Methods Used/Developed for Fresh and



	DAY 2	
07 SI	EPTEMBER :	2023

07 SEPTEMBER 2023				
09:00 — 10:30	TECHNICAL S	ESSION – 3C ARSINOE HALL		
		Geotechnical Engineering		
Session Chair:	Assist. I	Prof. Dr. Abdullah Ekinci		
09:00 - 09:15	ACE2023-119	Undrained Spherical Expansion Analysis for Clay. Vincenzo Silvestri, Claudette Tabib		
09:15 - 09:30	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		
09:30 - 09:45	ACE2023-153	Slopes with Groundwater Level Changes by Precipitation Under Different Loads.		
		Baran Toprak, Murat Pinarlik		
09:45 — 10:00	ACE2023-185	Effect of Stress History on Lateral Earth Pressure Coefficient At Rest Analysis Through Discrete Elements Method.		
		Khellaf Abdelghani, Mansouri Mouloud		
10:00 - 10:15	ACE2023-031	Dynamic Response of Shallow Mat Footings on Coir Geotextile Reinforced Sand Under Cyclic Loading		
		Mohamad Hanafi, Abdullah Ekinci		
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.		
		Hamza Saeed, Eris Uygar, Zalihe Nalbantoglu		

09:00 - 10:30	TECHNICAL SI	ESSION – 3D SALAMIS HALL (ONLINE)		
Geotechnical Engineering				
Session Chair:	Assoc. I	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		
10:30 - 10:45	COFFEE BREA	K		



		2023
		DAY 2
		07 SEPTEMBER 2023
10:45 - 12:15	TECHNICAL S	ESSION – 4A BIG HALL
		Structural & Earthquake Engineering
Session Chair:	Assist.	Prof. Dr. Umut Yıldırım
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 Komley, 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 S	ESSION – 4B SMALL HALL
10.15 12.15		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.
11:15 – 11:30	ACE2023-151	Turki I. Al-Suleiman Obaidat, Linda Zaid Abu Ghazaleh Modelling Shared Bicycle Demand Using Artificial Neural Networks. Selim Dündar, Pelin Alcan Gezginci, Gürkan Günay, Elçin Mert4,
11:30 - 11:45	ACE2023-141	Ersoy Soyer Use of Synthetic Fiber in Asphalt Pavements Mini Review.
11:45 - 12:00	ACE2023-062	Halime Solak, Erol İskender, Atakan Aksoy, Cansu İskender Interactions Between Automated Shuttle, Vulnerable Road Users and Regular Vehicles: A Case Study in Bari, Italy.
40.00 40.45	A GT10000 CT1	S. Coropulis, N. Berloco, R. Gentile, P. Intini, P. Longo, V. Ranieri

ACE2023-051 Optimal Pavement Design and Maintenance Approach Using HDM-4.

Amarendra Kumar Sandra, Pattabhiram Yegulla, J Janardhan

12:00 - 12:15

12:15 - 13:30

LUNCH



		DAY 2
		07 SEPTEMBER 2023
10:45 - 12:00	TECHNICAL S	ESSION – 4C ARSINOE HALL
		Hydraulic Engineering
Session Chair:	Chair: 1	Asst. Prof. Dr. Hasan Zaifoglu
10:45 – 11:00	ACE2023-178	Determination of Sediment Transport of Coruh River by Field Observation and RUSLE Method.
11:00 – 11:15	ACE2023-193	Kutay Yılmaz, Saber Habibi Topraghghaleh, Yakup Darama, Nazmi Kağnıcıoğlu 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,
11:30 – 11:45	ACE2023-232	Mohamed Elmustafa Elmubarak Elawad Hassan 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 — 11:45	TECHNICAL S	
0 . 01 .	_	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, Bahadir 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 - 12:30	TECHNICAL S	, ,
		Building Materials Engineering
Session Chair:	Assoc.	Prof. Dr. Tolga Çelik
11:45 – 12:00	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
12:00 - 12:15	ACE2023-007	Mechanical Properties and Expansion Behaviour of ASR Affected Concrete.
12:15 – 12:30	ACE2023-110	Saeid Moghimi, Cihat Yüksel, Kambiz Ramyar Alkali Activation of Stabilized Rammed Earth: A State-of-the-Art Review.
		Maroan Elgallal, Ayse Pekrioglu Balkis

12:30 - 13:30

LUNCH



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 SI	ESSION – 5A BIG HALL
	St	ructural and Earthquake Engineering
Session Chair:	Assoc. I	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



15:15 – 16:15	TECHNICAL S	ESSION – 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 Ozcelikci, 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. <i>Aslı Bardak</i>

END OF DAY 2 TECHNICAL SESSION

15:15 — 17:15	TECHNICAL SI	ESSION – 5C ARSINOE HALL	
Construction Management Engineering			
Session Chair:	Prof. Di	: 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	ACE2023-069	Education for the Use of BIM on the Example of Slovenian Higher Education Nataša Šuman, Zoran Pučko, Aleksander Srdić, Robert Klinc	
15:45- 16:00	ACE2023-158	Supervisor's and Co-workers' Safety Climate of Building Construction Workers.	
		Serkan Aydınlı, Selman Aslan	
16:00 — 16:15	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	
16:15 – 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. Hanan Al-Raqeb, Hammadhu H., Seyed Hamidreza Ghaffar, Aniali G.	
16:30 – 16:45	ACE2023-081	Identification of Critical Factors in Design for Sustainability of Modular Constructions. Efkan Efekan, Tolga Celik, Onur B. Tokdemir	
16:45 – 17:00	ACE2023-164	Enhancing Students' Comprehension in Building Structures: An Experimental Exploration of Augmented Reality Applications Salman Azhar, Guangyan Shao	
17:00 – 17:15	ACE2023-245	Occupational Health and Safety Practices in North Cyprus. Murude Celikag, Serife Bozkir, Fatma Cellatoglu	
END OF DAY 2 TECHNICAL SESSION			



15:15 – 16:15		ESSION = 5D			
		ESSION – 5D SALAMIS HALL (ONLINE) Building Materials Engineering			
Session Chair:	Assoc	Prof. Dr. Tolga Çelik			
Session Chair.	A330C. I	1 TOJ. DI. TOISU ÇEIIK			
15:15 – 15:30	ACE2023-009	Properties of Ilmenite-Heavyweight Concrete Subjected to Elevated Temperature.			
		Ahmed Mounir, Alaa Mohsen, AbdelMonem Soltan, Mohamed Kohail			
15:30 – 15:45	ACE2023-024	Impact of Climate Change on Binder Performance Selection in a Cole Region Environment. Osama A. Abaza, Alexander Litvinchuk, Jesse Batac			
15:45 – 16:00	ACE2023-139	Investigation of Rutting Performance of Asphalt Binder Modified wit New Boron-Containing Additive.			
16:00 – 16:15	ACE2023-147	Merve Gülfer Bozdemir, Hacer Yeşilçiçek, Şeref Oruç Investigation of the Effect of Asphalt Binder Modified with the New Synthesized TOBO Additive on Rutting Performance.			
		Hacer Yeşilçiçek, Şeref Oruç, Merve Gülfer Bozdemir			
16:15 – 17:00	TECHNI	CAL SESSION – 5E SALAMIS HALL (ONLINE)			
		Transportation Engineering			
Session Chair:	Assoc.	Prof. Dr. Tolga Çelik			
16:15 – 16:30	ACE2023-202	Investigation of the Usability of Basalt and Limestone Aggregates Obtained from Bitlis Region in Porous Asphalt Construction. Alev Akilli El, Mehmet Yilmaz			
16:30 – 16:45	ACE2023-108	The Effects of Nano Expanded Vermiculite on Asphalt Binder Properties. Mehmet Saltan, Gizem Kaçaroğlu, Öznur Karadağ			
16:45 – 17:00	ACE2023-107	Investigation of the Effect of Bio-char and Activated Carbon on the Physical Properties of Asphalt Binder			
Mehmet Saltan, Öznur Karadağ, Gizem Kaçaroğlu					
17:00 - 18:15	TECHNI	CAL SESSION – 5F SALAMIS HALL (ONLINE)			
		Hydraulics Engineering			
Session Chair:	Assoc.	Prof. Dr. Tolga Çelik			
17:00 — 17:15	ACE2023-071	Extremely High vs Average Climate Forecast: Impact on Thermal Performance in Urban Areas. Berk Adali, Yigit Can Altan			
17:15 – 17:30	ACE2023-092	Nonstationary Low Flow Frequency Analysis in the Çoruh Basin. <i>Muhammet Yılmaz, Fatih Tosunoğlu</i>			
17:30 – 17:45	ACE2023-093	Evolution of Low Flows in the Çoruh Basin. Muhammet Yılmaz, Fatih Tosunoğlu			
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. Serin Değerli Şimşek, Evren Turhan			
18:00 – 18:15	ACE2023-142	Introduction of a Computer Software (S-Hammer) Developed to Analyze Fluid Transients in Pipelines. Saber Habibi Topraghghaleh, Zafer Bozkuş			
	EVID OI	F DAY 2 ONLINE TECHNICAL SESSIONS			



DAY 3				
		08 SEPTEMBER 2023		
09:00		Presentation		
09:30 - 11:00	TECHNICAL S	ESSION – 6A BIG HALL		
		Structural & Earthquake Engineering		
Session Chair:	Assoc. I	Prof. Dr. Mehmet Cemal Geneş		
09:30 - 09:45	ACE2023-226	Vision-Based Identification of Dynamic Characteristics Using Cameras: A Case Study one of Tehran's Overpass Bridges. Maryam Abazarsa, Mahmood Hosseini		
09:45 - 10:00	ACE2023-238	Systems for Monitoring a Bridge Using Wireless Sensor Networks. Gokhan Kilic, Gokhan Altindas, Zafer Kutug, Dila Çiğdem		
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. Abdullah R. M. Alariyan, Mehmet C. Genes		
10:15 - 10:30	ACE2023-244	3D Soil-Structure-Pile Interaction Analysis for Heterogeneous Soil Medium. Yasin Fahjan, Fatma İlknur Kara		
10:30 - 10:45	ACE2023-214	Seismic Performance Assessment of Reinforced Concrete Building Stock Using Artificial Neural Network and Linear Regression Analysis. Oğuz Karayel, Giray Özay		
10:45 — 11:00	ACE2023-220	The Effect of Foundations Uplift on the Seismic Behavior of Multi-Story Regular RC Buildings. Amir Amirbeygloo, Mahmood Hosseini		
11:15 – 11:30	COFFEE BREA	K		
09:30 — 10:45	TECHNICAL S			
Session Chair:	Assoc. I	Hydraulics Engineering 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 Aşıkoğlu, Harun Alp		
10:00 - 10:15	ACE2023-207			

Estimation of Basin Water Balance Using SWAT Model.

Analysis of Traditional and LID Approaches.

Dineo Mollo, George Ndhlovu, Samuel Tetsoane

Evaluating Urban Runoff in a Catchment of Güzelyurt: A Comparative

Mirza Mohammed Abdul Basith Baig, Bertuğ Akıntuğ

ACE2023-189

ACE2023-047

COFFEE BREAK

10:15 - 10:30

10:30 - 10:45

10:45 - 11:00



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 Fahjan [İstanbul Technical University]

KEYNOTE II:

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

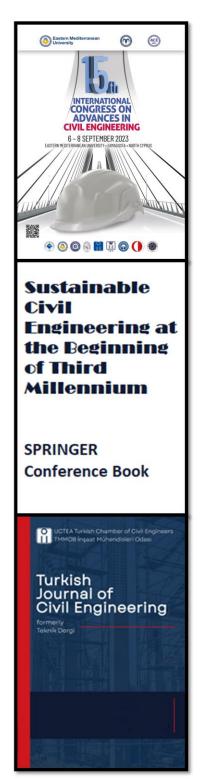
KEYNOTE III:

Prof. Dr. Serhan Şensoy [Eastern Mediterranean University]

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



PUBLICATIONS



Congress Proceedings Book

Springer Conference Book

Turkish Journal of Civil Engineering



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Petek Pastahanesi



Tüfekçi Group



NOTES





