



CONFERENCE PROGRAM

ONLINE MODE
(August 03, 2023)

MS Teams Joining (08:30 HRS TO 09:00 HRS)

Venue: CSCE2023 – Room 1 (*Online via MS Teams*)
Coordinator: Engr. M. Waqas Malik
Co-Coordinator: Engr. Naseem Ali

A) Main Session (09:00 HRS TO 10:25 HRS)

INAUGURATION (09:00 HRS TO 09:15 HRS) Venue: CSCE2023 – Room 1 (<i>Online via MS Teams</i>)		
Session Chair: Dr. Muhammad Ashraf Session Co-Chair: Engr. Iqbal Ahmed		
Time	Activity	
09:00 to 09:05	Opening and Recitation	
09:05 to 09:10	Welcome by the Vice Chancellor, CUST	
KEYNOTE LECTURES (09:15 HRS TO 10:25 HRS) Venue: CSCE2023 – Room 1 (<i>Online via MS Teams</i>)		
Session Chair: Dr. Muhammad Ashraf Session Co-Chair: Engr. Iqbal Ahmed		
09:15 to 09:35	Unlocking the Potential of Offsite Construction for Developing Economies	Dr. Wajiha Shahzad <i>School of Built Environment, Massey University, Auckland, New Zealand</i>
09:35 to 09:55	State of the Art Techniques for Structural Health Monitoring of Structures	Dr. Afaq Ahmed <i>University of Memphis, Tennessee, USA</i>
09:55 to 10:15	Sustainable Green Eco-technologies for the Wastewater Treatment	Dr. Hamza Farooq Gabriel <i>Director Regional Centre for Water Tech./Trans-bound. Issues, National University of Science and Technology, Islamabad, Pakistan</i>
10:15 to 10:25	Closing Remarks	Dr. Imtiaz Ahmed Taj <i>Dean, Faculty of Engineering, CUST</i> Dr. Ishtiaq Hassan <i>Head, Department of Civil Engineering, CUST</i>

Morning Break: 10:25 HRS TO 10:45 HRS



B) Oral Presentations - Technical Session I (10:45 HRS TO 13:00 HRS)

B1) Oral Presentations Parallel Session 1-1		
Venue: CSCE2023 – Room 1 (Online via MS Teams)		
MS Teams Re-Joining (10:45 HRS TO 10:50 HRS)		
Session Chair: Dr. Muazzam Ghous Sohail		
Session Co-Chair: Engr. Sohail Afzal		
Time	Paper	First Author
10:55 to 11:15	Seismic Vulnerability Assessment of Unreinforced Masonry Buildings [KEYNOTE LECTURE]	Dr. H. Derakhshan <i>Queensland University of Technology (QUT), Brisbane, Australia</i>
11:15 to 11:30	Concrete Evolution: An Analysis of Recent Advancements and Innovations (Paper ID: 135)	Ali Ajwad <i>University of Salerno, Italy</i>
11:30 to 11:45	Reliability of Cores Test Result at Elevated Temperature in Case of Normal Strength Concrete (Paper ID: 110)	Usman Ali <i>UET, Taxila, Pakistan</i>
11:45 to 12:00	Enhanced Performance of Brick Aggregate Concrete Using Partial Substitution of Sand with Waste Glass and Flax Fiber Intrusion (Paper ID: 124)	Hassan Amjad <i>NUST, Islamabad, Pakistan</i>
12:00 to 12:15	The Behavior of Pre-Treated Crumb Rubber and Polypropylene Fibers Incorporated Mortar Subjected to Elevated Temperatures (Paper ID: 129)	Manahil Shafqat <i>COMSATS Abbottabad, Pakistan</i>
12:15 to 12:30	Improvement of Mechanical Characteristics of Cementitious Mortar at Initial Age by Adding Bio-Char of Santa Maria Feverfew Plant (Paper ID: 104)	Ahmed Kamal Subhani <i>MUST, Mirpur, Pakistan</i>
12:30 to 12:45	Micro Structural Study of Concrete with Indigenous Volcanic Ash (Paper ID: 131)	M. Iqbal Bashir <i>UET, Taxila, Pakistan</i>
12:45 to 13:00	Linear and Non-Linear Regression Analysis on the Prediction of Compressive Strength of Sodium Hydroxide Pre-Treated Crumb Rubber Concrete (Paper ID: 204)	Hamza Aamir, <i>COMSATS Abbottabad, Pakistan</i>



B2) Oral Presentations Parallel Session 1-2		
Venue: CSCE2023 – Room 2 (Online via MS Teams)		
MS Teams Re-Joining (10:45 HRS TO 10:50 HRS)		
Session Chair: Dr. Shuja Safdar		
Session Co-Chair: Engr. Usman Hussain		
Time	Paper	First Author
10:55 to 11:15	Carbon Storage in Building Materials for a Greener Future [KEYNOTE LECTURE]	Dr. Anwar Khitab <i>Ex-dean Faculty of Engineering, MUST, Mirpur, Pakistan</i>
11:15 to 11:30	Critical Factors Influencing the Adoption of the Build Operate Transfer System in the GULF Areas: A Comprehensive Review (Paper ID: 303)	M. Junaid Yamin <i>King Fahd Uni. of Pet. & Minerals, Dhahran, KSA</i>
11:30 to 11:45	Framework for Energy Performance Measurement of Residential Buildings Considering Occupants' Energy Use Behavior (Paper ID: 305)	Nida Azhar <i>NED UET, Karachi, Pakistan</i>
11:45 to 12:00	Application of Plastic Aggregates in Asphalt Mix Paving for Sustainable Environment (Paper ID: 508)	Saad Mehmood <i>UET, Taxila, Pakistan</i>
12:00 to 12:15	Efficiency and Sustainability: Enhancing Mortar Mixtures with Waste Paper Sludge Ash (Paper ID: 122)	Asad Shafique, <i>COMSATS Abbottabad, Pakistan</i>
12:15 to 12:30	Improved Compressive Performance of Bio-Induced Sisal Fibers Reinforced Concrete (Paper ID: 107)	Hassan Amjad <i>NUST, Islamabad, Pakistan</i>
12:30 to 12:45	Developing High Performance Concrete Using Jute Fibers (Paper ID: 108)	Umer Nisar Satti <i>HITECH University, Taxila, Pakistan</i>
12:45 to 13:00	A Review on Effects of Project Management Practices on Cost Overrun in Construction Projects (Paper ID: 304)	Fakhar Hassan Shah <i>Abasyn, Islamabad, Pakistan</i>



B3) Oral Presentations Parallel Session 1-3		
Venue: CSCE2023 – Room 3 (Online via MS Teams)		
MS Teams Re-Joining (10:45 HRS TO 10:50 HRS)		
Session Chair: Dr. Muhammad Usman Farooqi		
Session Co-Chair: Engr. Iqbal Ahmad		
Time	Paper	First Author
10:55 to 11:15	Prosperous Cities Transition - How Do Pakistani Cities Thrive in Future by Adopting Transit Oriented Development Model? [KEYNOTE LECTURE]	Dr. Imran Muhammad <i>Massey University, Palmerston North, NZ</i>
11:15 to 11:30	Model-based Relationship Between Risk-Taking Behavior of Motorcyclists and its Corresponding Factors. A Case Study at Srinagar Highway Islamabad After Making it Signal-Free Alignment (Paper ID: 506)	Haseeb Ahsan <i>UET, Taxila, Pakistan</i>
11:30 to 11:45	Construction, Conflict, Claim, and Compensation (4C) Case Study – Faizabad Highway Interchange Project Islamabad, Pakistan (Paper ID: 502)	Erum Aamir <i>NUST, Islamabad, Pakistan</i>
11:45 to 12:00	Manhole Related Road Accident Prevention Using Sustainable Methods (Paper ID: 505)	Ashar Ahmed <i>NED UET, Karachi, Pakistan</i>
12:00 to 12:15	Investigating the Effect of Shear Rate in the Shear Thinning Behaviour of Waste Plastic-Modified Asphalt Binder (Paper ID: 501)	Muhammad Ziad Bacha <i>UET, Taxila, Pakistan</i>
12:15 to 12:30	Effectiveness of Mono Sand Pile in Soft Cohesive Ground (Paper ID: 607)	Qazi Umar Farooq <i>Islamic Uni. of Madinah, Saudi Arabia</i>
12:30 to 12:45	Soil Improvement Using Waste Polyethylene Terephthalate (PET) (Paper ID: 606)	Tariq Saeed <i>SCET, Taxila, Pakistan</i>
12:45 to 13:00	Impact of Silica Fume and Biochar Treatment on the Mechanical Characteristics of Low Plastic Soils (Paper ID: 601)	Muhammad Waleed <i>NUST, Islamabad, Pakistan</i>

Lunch and Prayer Break (13:00 HRS TO 14:00 HRS)



C) Oral Presentations - Technical Session II (14:00 HRS TO 16:00 HRS)

C1) Oral Presentations Parallel Session 2-1		
Venue: CSCE2023 – Room 1 (Online via MS Teams)		
MS Teams Re-Joining (14:00 HRS TO 14:05 HRS)		
Session Chair: Dr. Nafeesa Shaheen		
Session Co-Chair: Engr. Faiza Khalid		
Time	Paper	First Author
14:10 to 14:30	Sustainable Use of High-Performance-Fiber-Reinforced Cementitious Composites [KEYNOTE LECTURE]	Dr. Mizan Ahmed <i>Curtin University, Perth, Australia</i>
14:30 to 14:45	Flexure Response of Stainless Steel Reinforced Concrete (SSRC) Beams Subjected to Fire (Paper ID: 210)	Javaria Mehwish <i>Brunel University, London, UK</i>
14:45 to 15:00	Comparative Seismic Response Analysis of a Multi-Storey Building With and Without Base Isolators Under High Magnitude Earthquake (Paper ID: 209)	Maliha M. Qambrani <i>BUIITEMS, Quetta, Pakistan</i>
15:00 to 15:15	Assessing the Flexural Strength of a Beam Using Waste Plastic as a Partial Substitute for Coarse Aggregate (Paper ID: 125)	M. H. M. Awan <i>HITECH, Taxila, Pakistan</i>
15:15 to 15:30	Predicting the Residual Flexural Capacity of Fire Exposed Reinforced Concrete Beams Using Gene Expression Programming (Paper ID: 201)	Raheel Asghar <i>COMSATS Abbottabad, Pakistan</i>
15:30 to 15:45	Effect of Bio-Char of Santa Maria Feverfew Plant on Physical Properties of Fresh Mortar (Paper ID: 105)	Waleed Nasir khan <i>MUST, Mirpur, Pakistan</i>
15:45 to 16:00	Behavior of Retrofitted GPC Columns Under Eccentric Loading (Paper ID: 114)	Shahzaib Farooq <i>UET, Taxila, Pakistan</i>



C2) Oral Presentations Parallel Session 2-2		
Venue: CSCE2023 – Room 2 (Online via MS Teams)		
MS Teams Re-Joining (14:00 HRS TO 14:05 HRS)		
Session Chair: Engr. Talha bin Tahir		
Session Co-Chair: Engr. Umair Ahmed		
Time	Paper	First Author
14:10 to 14:30	The Use of Ground Penetrating Radar (GPR) to Improve Sustainability in Pavement Engineering Projects [KEYNOTE LECTURE]	Dr. Robert Evans <i>Nottingham Trent Uni., Nottingham, UK</i>
14:30 to 14:45	Effect of Indigenous Volcanic Ash as Partial Replacement of Cement on Mechanical Properties of Concrete at Elevated Temperature (Paper ID: 112)	Hashmatullah, <i>UET, Taxila, Pakistan</i>
14:45 to 15:00	Composite Fibers in Concrete: Properties, Challenges, and Future Directions (Paper ID: 119)	Samiullah Khan <i>COMSATS Abbottabad, Pakistan</i>
15:00 to 15:15	Evaluation of Seismic Response of 3D Building Frame With and Without Base Isolation using Finite Element Analysis (Paper ID: 208)	Fahad Ali <i>BUIITEMS, Quetta, Pakistan</i>
15:15 to 15:30	Effects of Different Aggregate Gradations on Rutting Susceptibility of Hot Mix Asphalt (HMA) (Paper ID: 504)	Ashar Ahmed <i>NED UET, Karachi, Pakistan</i>
15:30 to 15:45	Response Surface Methodology Based Optimized Mix Design for Self-compacting Concrete Blended with Metakaolin Waste (Paper ID: 109)	Abdul Aziz <i>UET, Taxila, Pakistan</i>
15:45 to 16:00	Utilizing Corn Cob Ash and Bauxite as One Part Geopolymer: A Sustainable Approach for Construction Materials (Paper ID: 117)	Raheel Arif <i>COMSATS Abbottabad, Pakistan</i>



C3) Oral Presentations Parallel Session 2-3		
Venue: CSCE2023 – Room 3 (Online via MS Teams)		
MS Teams Re-Joining (14:00 HRS TO 14:05 HRS)		
Session Chair: Engr. Muhammad Zaheer		
Session Co-Chair: Engr. Talha Ahmed		
Time	Paper	First Author
14:10 to 14:30	Role of Civil Engineering in Sustainable Development [KEYNOTE LECTURE]	Dr. S. Sreedhar Reddy <i>University of Nizwa,</i> <i>Nizwa, Oman</i>
14:30 to 14:45	Validation of Chlorine Decay Equation for Water Quality Analysis in Distribution Networks (Paper ID: 406)	Rehan Jamil <i>Universiti Sains</i> <i>Malaysia</i>
14:45 to 15:00	Designing the Remote and Sustainable Water Management System (Paper ID: 402)	Hadia Tariq <i>NUST,</i> <i>Islamabad, Pakistan</i>
15:00 to 15:15	Application of Nonstationary in Climate Variability – A Case Study of South Punjab, Pakistan (Paper ID: 401)	M. Usman Khan <i>UET,</i> <i>Lahore, Pakistan</i>
15:15 to 15:30	Exploring the Potential of Moss Concrete as an Eco-Friendly Solution to Mitigate Urban Heat Island Effect (Paper ID: 116)	Muhammad Awais <i>COMSATS</i> <i>Abbottabad, Pakistan</i>
15:30 to 15:45	Treatment of Domestic Wastewater with Anaerobic Fluidized Membrane Bioreactor (An-FMBR) and Control of Membrane Fouling With Addition of GAC (Paper ID: 705)	Kamran Manzoor <i>NUST,</i> <i>Islamabad, Pakistan</i>
15:45 to 16:00	Scour Reduction Around Bridge Abutments Using Industrial By-Products as a Countermeasures - An Experimental Approach (Paper ID: 405)	Rana Adnan Amir <i>UET,</i> <i>Taxila, Pakistan</i>

Afternoon Break: 16:00 HRS TO 16:10 HRS



D) Poster Presentations - Technical Session III (16:10 HRS TO 16:45 HRS)

D1) Poster Presentations Parallel Session 3-1		
Venue: CSCE2023 – Room 1 (Online via MS Teams)		
MS Teams Re-Joining (16:10 HRS TO 16:15 HRS)		
Session Chair: Engr. Usman Hussain		
Session Co-Chair: Engr. Sohail Afzal		
Time	Paper	First Author
16:15 to 16:20	Innovative Solutions for Sustainable Building Strengthening: Glass Fiber Reinforced Concrete (Paper ID: 214)	Faheem Ahmed Gul <i>Nanchang Inst. of Tech. Jiangxi, China</i>
16:20 to 16:25	The Effect of Plastic Fibers on the Mechanical Properties, Ductility and Environmental Performance of Concrete – A Review (Paper ID: 113)	Arshad Qayyum <i>COMSATS Abbottabad, Pakistan</i>
16:25 to 16:30	Synthesis and Dispersion Mechanism of Nanomaterials in Cement-Based Composites: A State of the Art Review (Paper ID: 106)	Hassan Amjad <i>NUST, Islamabad, Pakistan</i>
16:30 to 16:35	Project Management Practices in Construction Projects and their Role in Achieving Sustainability - A Comprehensive Review (Paper ID: 306)	Fakhar Hassan Shah <i>Abasyn, Islamabad, Pakistan</i>
16:35 to 16:40	Strength Prediction of Various Beams Through the Artificial Neural Network (Paper ID: 202)	M. Mahtab Ahmad <i>UET, Taxila, Pakistan</i>
16:40 to 16:45	Exploring Vibration Measurement Precision: A Comparative Analysis of a DIY, Low-Cost Acceleration Measurement Unit versus a Premium Standard Accelerometer System (Paper ID: 206)	Usama bin Tariq <i>UET, Taxila, Pakistan</i>



D2) Poster Presentations Parallel Session 3-2		
Venue: CSCE2023 – Room 2 (Online via MS Teams)		
MS Teams Re-Joining (16:10 HRS TO 16:15 HRS)		
Session Chair: Engr. Faiza Khalid		
Session Co-Chair: Engr. Talha bin Tahir		
Time	Paper	First Author
16:15 to 16:20	Effect of Bentonite & Polypropylene Fibers on Fresh and Hardened Properties of Fly Ash Based Geopolymer Concrete (Paper ID: 128)	Shahid Zaman <i>UET, Taxila, Pakistan</i>
16:20 to 16:25	Effect of Heat on Self-Compacting Concrete with Partial Substitution of Foundry Sand as Fine Aggregate and Addition of Propylene Fibers (Paper ID: 133)	Rizwan Ghafoor <i>UET, Taxila, Pakistan</i>
16:25 to 16:30	Performance of Self-Compacting Concrete with Incorporation of Silica Fume And Coal Bottom Ash (Paper ID: 130)	M. Shawaiz Hassan <i>UET, Taxila, Pakistan</i>
16:30 to 16:35	Structural Performance of E-waste Concrete Reinforced with different fibres (Paper ID: 111)	M Safwan Naeem <i>UET, Taxila, Pakistan</i>
16:35 to 16:40	Durability characteristics of self-compacting concrete with partial substitution of foundry sand as fine aggregate and addition of propylene fibers (Paper ID: 137)	M Umer Malik <i>UET, Taxila, Pakistan</i>
16:40 to 16:45	Bacterial Self-Healing for Sustainable Concrete: A Comparative Study of Vegetative and Spore-Forming Bacteria (Paper ID: 126)	M Abdullah Akmal <i>UET, Taxila, Pakistan</i>



D3) Poster Presentations Parallel Session 3-3		
Venue: CSCE2023 – Room 3 (Online via MS Teams)		
MS Teams Re-Joining (16:10 HRS TO 16:15 HRS)		
Session Chair: Engr. Muhammad Zaheer		
Session Co-Chair: Engr. Umair Ahmed		
Time	Paper	First Author
16:15 to 16:20	Bridge Pier Scour Reduction Investigation Using Different Vegetation Elements as Countermeasure (Paper ID: 407)	Sajjad Hussain <i>UET, Taxila, Pakistan</i>
16:20 to 16:25	Experimental Investigation of Square-shaped Sacrificial piles on Scour Depth of Compound bridge Pier (Paper ID: 408)	M. Nawaz Sharif <i>UET, Taxila, Pakistan</i>
16:25 to 16:30	Optimizing Traffic Flow at Sangjani Toll Plaza in Islamabad: A Simulation Study using Different Lane Patterns (Paper ID: 510)	Umer Sabahuddin Gill <i>UET, Taxila, Pakistan</i>
16:30 to 16:35	Slope Stability Analysis and Design using Numerical Techniques: A Case Study (Paper ID: 605)	Ahsan Javed <i>UET, Taxila, Pakistan</i>
16:35 to 16:40	Evaluation of Strength Parameter of Indigenous Soil Under Varying Surcharge Load (Paper ID: 609)	Hazrat Bilal <i>UET, Taxila, Pakistan</i>

E) Closing Ceremony (16:45 HRS TO 17:00 HRS)

Venue: CSCE2023 – Room 1 (Online via MS Teams)

Session Chair: Dr. Majid Ali (Conference Chair)

Session Co-Chair: Engr. Shaheed Ullah (Conference Secretary)