



## **CONFERENCE PROGRAM**

(August 01, 2024)

### **Registration (08:30 HRS TO 09:00 HRS)**

Venue: Beside Block A

Coordinator: Engr. M. Waqas Malik

Co-Coordinator: Engr. Naseem Ali

**Note:** All poster presenters are requested to display their posters at their allocated space in Old Cafeteria (Riverside). All oral presenters are requested to upload their presentations in respective rooms before the session starts. Assistance is available in each room.

### **A) Main Session (09:00 HRS TO 10:05 HRS)**

<b>INAUGURATION (09:00 HRS TO 09:15 HRS)</b>		
<b>Venue: A2</b>		
<b>Session Chair: Dr. Muazzam Ghous Sohail</b> <b>Session Co-Chair: Engr. Shaheed Ullah</b>		
<b>Time</b>	<b>Activity</b>	
09:00 to 09:05	Opening and Recitation	
09:05 to 09:10	Welcome by the Vice Chancellor, CUST	
<b>KEYNOTE LECTURES (09:15 HRS TO 10:05 HRS)</b>		
<b>Venue: A2</b>		
<b>Session Chair: Dr. Muazzam Ghous Sohail</b> <b>Session Co-Chair: Engr. Shaheed Ullah</b>		
09:15 to 09:35	Building a Sustainable Future: The Role of Textile Waste Composites in Civil Engineering	Dr. Noor Aina Misnon <i>Universiti Pertahanan Nasional, Kuala Lumpur, Malaysia</i>
09:35 to 09:55	Alternative Materials for Buildings Construction in Pakistan	Dr. Khan Shahzada <i>Director, PGS, University of Engineering and Technology, Peshawar, Pakistan</i>
09:55 to 10:05	Closing Remarks	Dr. Imtiaz Ahmed Taj <i>Dean, Faculty of Engineering, CUST</i> Dr. Ishtiaq Hassan <i>Head, Department of Civil Engineering, CUST</i>

### **Poster Session and Tea Break: 10:10 HRS TO 10:45 HRS**

Venue: Old Cafeteria (Riverside)

Coordinator: Engr. M. Waqas Malik

Co-Coordinator: Engr. Naseem Ali

**Note:** All poster presenters are requested to stand with their posters at their allocated space in Old Cafeteria (Riverside). Don't forget to enjoy refreshments.



**B) Oral Presentations - Technical Session I (10:50 HRS TO 13:00 HRS)**

<b>B1) Oral Presentations Parallel Session 1-1</b>		
<b>Venue: B1</b>		
<b>Session Chair: Dr. Muazzam Ghous Sohail</b>		
<b>Session Co-Chair: Engr. Sohail Afzal</b>		
<b>Time</b>	<b>Paper</b>	<b>First Author</b>
10:55 to 11:15	<b>Penetrability in Concrete - A Perspective to Develop Durable Concrete for Sewer Environment</b> [KEYNOTE LECTURE]	<b>Dr. Hammad A. Khan</b> <i>University of Sydney, Australia</i>
11:15 to 11:30	Tensile Strength of Textile Waste Composite (Paper ID: 121)	Noor Aina Misnon <i>Universiti P. Nasional Malaysia, Kuala Lumpur, Malaysia</i>
11:30 to 11:45	Rubberized Concrete: Optimum Duration of Pretreatment of Rubber Particles with Alkaline Solutions (Paper ID: 125)	Raja Bilal Nasar Khan <i>MUST, Mirpur (AJK) Pakistan</i>
11:45 to 12:00	Utilization of Industrial Wastes in Bricks and Tuff Tiles (Paper ID: 118)	Khawaja Adeel Tariq <i>UET, Narrowal, Pakistan</i>
12:00 to 12:15	An Experimental Investigation into the Compressive Strength Behavior of Ultra High Performance Concrete (Paper ID: 111)	Muhammad Ubair Javed, <i>The Islamia University, Bahawalpur, Pakistan</i>
12:15 to 12:30	Performance Evaluation of Self-Cured Bio Geo-Polymer Concrete regarding Mechanical Strength and Durability (Paper ID: 119)	Ahmad Ali Sial <i>UET, Taxila, Pakistan</i>
12:30 to 12:45	Enhancing Concrete Mechanical Properties Through Graphite Nano-Micro Platelets (Paper ID: 117)	Hassan Tahir <i>Designmen Cons. Engrs, Islamabad, Pakistan</i>
12:45 to 13:00	Retrofitting of Confined Masonry Structure with Fiber Reinforced Polymer (FRP) (Paper ID: 129)	Ajmal Khan <i>UET, Peshawar, Pakistan</i>



<b>B2) Oral Presentations Parallel Session 1-2</b>		
<b>Venue: B2</b>		
<b>Session Chair: Dr. Shuja Safdar</b>		
<b>Session Co-Chair: Engr. Talha Ahmed</b>		
Time	Paper	First Author
10:55 to 11:15	<b>Machine Learning Assisted Iterative Design of Geopolymer Concrete</b> [KEYNOTE LECTURE]	<b>Dr. Jin Cheng Liu</b> <i>Aurecon,</i> <i>Hong Kong</i>
11:15 to 11:30	An Insight into Prospects and Challenges of 3D Printing in Developing Countries <b>(Paper ID: 319)</b>	Sadia Sajid Khan <i>Kinetics Contr. LLC,</i> <i>UAE</i>
11:30 to 11:45	Factors Effecting Stakeholder Engagement in Design Bid Built <b>(Paper ID: 308)</b>	Mehar Ali <i>UET,</i> <i>Taxila, Pakistan</i>
11:45 to 12:00	Optimizing Energy Efficiency in Green Buildings Using BIM-Integrated Energy Analysis Tools <b>(Paper ID: 320)</b>	Muhammad Shoaib <i>UET,</i> <i>Peshawar, Pakistan</i>
12:00 to 12:15	Optimizing Energy Performance of Buildings in Pakistan Using BIM <b>(Paper ID: 304)</b>	Said Haseebullah <i>COMSATS,</i> <i>Abbottabad, Pakistan</i>
12:15 to 12:30	Operations and Maintenance of Green Buildings: A Case Study <b>(Paper ID: 303)</b>	Muhammad Fahad <i>UCP,</i> <i>Lahore, Pakistan</i>
12:30 to 12:45	Sustainable Concrete Production: Utilizing Waste and Green Technologies <b>(Paper ID: 126)</b>	Usman Ilyas <i>UMT,</i> <i>Lahore, Pakistan</i>
12:45 to 13:00	Bond Behavior of Deformed Steel Rebar Embedded in A Recycled Brick Aggregate Concrete <b>(Paper ID: 122)</b>	Muhammad Subhan <i>UET,</i> <i>Lahore, Pakistan</i>



<b>B3) Oral Presentations Parallel Session 1-3</b>		
<b>Venue: B3</b>		
<b>Session Chair: Dr. Muhammad Usman Farooqi</b>		
<b>Session Co-Chair: Engr. Faiza Khalid</b>		
<b>Time</b>	<b>Paper</b>	<b>First Author</b>
10:55 to 11:15	<b>Applications of Centrifuge Modelling in Geotechnical Engineering and Research</b> <b>[KEYNOTE LECTURE]</b>	<b>Dr. Muhammad Shakeel</b> <b>AECOM,</b> <b>Hong Kong</b>
11:15 to 11:30	Bridge Bearings Replacement Challenges – A Review <b>(Paper ID: 242)</b>	Mustafa Zwain <i>WSP,</i> <i>UK</i>
11:30 to 11:45	Examination of the Effect of Illegal Parking on Capacity Reduction of Urban Roads <b>(Paper ID: 514)</b>	Ashar Ahmed <i>NED UET,</i> <i>Karachi, Pakistan</i>
11:45 to 12:00	Assessing the Combined Effects of Steel Speed Humps and Road Studs on Speed Reduction <b>(Paper ID: 507)</b>	Ali Hassan Waraich <i>UET,</i> <i>Taxila, Pakistan</i>
12:00 to 12:15	Physical and Durability Properties of Steel Slag Particles for Use in Road and Concrete Works <b>(Paper ID: 104)</b>	Ahmad Faraz <i>MUST,</i> <i>Mirpur (AJK), Pakistan</i>
12:15 to 12:30	To Assess the Impact of Organophilic Nanoclay on Marshall Properties of Asphalt Material <b>(Paper ID: 504)</b>	Abu Bakar <i>APCoMS,</i> <i>Rawalpindi, Pakistan</i>
12:30 to 12:45	Effect of Aspect Ratio on Bending Moment and Shear Force Distribution of Axially Loaded Piles <b>(Paper ID: 614)</b>	Moez Saqib <i>UOL,</i> <i>Lahore, Pakistan</i>
12:45 to 13:00	Performance Evaluation of Sustainable Compressed Stabilized Earth Bricks <b>(Paper ID: 107)</b>	Shafi Ullah Anjum <i>UET,</i> <i>Peshawar, Pakistan</i>

**Poster Session and Lunch / Prayer Break (13:05 HRS TO 14:00 HRS)**

Venue: Old Cafeteria

Coordinator: Engr. M. Waqas Malik

Co-Coordinator: Engr. Naseem Ali

**Note:**

1. All poster presenters are requested to stand with their posters at their allocated space in Old Cafeteria. Don't forget to enjoy lunch.
2. All participants are requested to collect their certificates and shield from the designated desk.



**C) Oral Presentations - Technical Session II (14:05 HRS TO 16:00 HRS)**

<b>C1) Oral Presentations Parallel Session 2-1</b>		
<b>Venue: B1</b>		
<b>Session Chair: Engr. Faiza Khalid</b>		
<b>Session Co-Chair: Engr. M. Waqas Malik</b>		
<b>Time</b>	<b>Paper</b>	<b>First Author</b>
14:10 to 14:30	<b>Effect of Mortar Type on The Static and Dynamic Behaviour of Masonry Arches</b> [KEYNOTE LECTURE]	<b>Dr. George Wardeh</b> <i>IUT de Cergy-Pontoise, France</i>
14:30 to 14:45	Sustainable Design of a Multi-Story Building Using Waste Marble and Ceramic (Paper ID:247)	M. Haroon Kabir <i>MUST, Mirpur (AJK), Pakistan</i>
14:45 to 15:00	The Development of Fragility Curves for Masonry Building – State of Art Review (Paper ID: 226)	Saif Ur Rehman <i>UET, Peshawar, Pakistan</i>
15:00 to 15:15	A Simplified Numerical Model for Reinforced Concrete Beam-Column Joints (Paper ID: 223)	Muhammad Azeem <i>UET, Peshawar, Pakistan</i>
15:15 to 15:30	Enhancing Structural Integrity and Resilience: A Systematic Approach for Retrofitting Design of a Two-Story Hospital Building in Karachi (Paper ID: 238)	Hassan Tahir <i>Designmen Cons. Engrs, Islamabad, Pakistan</i>
15:30 to 15:45	Enhancing Load-Carrying Capacity of Damaged Geopolymer Concrete Columns by Retrofitting with CFRP Wraps (Paper ID: 115)	Muhammad Ahsan Sami <i>UET, Taxila, Pakistan</i>
15:45 to 16:00	Predicting The Initial Stiffness of Externally Welded CHS-Transverse Plate Joints at Vertical and Horizontal Connections (Paper ID: 225)	Ali Ajwad <i>University of Salerno, Italy</i>



<b>C2) Oral Presentations Parallel Session 2-2</b>		
<b>Venue: B2</b>		
<b>Session Chair: Engr. Talha bin Tahir</b>		
<b>Session Co-Chair: Engr. Sohail Afzal</b>		
<b>Time</b>	<b>Paper</b>	<b>First Author</b>
14:10 to 14:30	<b>3D Printing Concrete: Transforming Construction through Innovative Technology.</b> [KEYNOTE LECTURE]	<b>Dr. Mehran Khan</b> <i>Uni.College Dublin, Ireland</i>
14:30 to 14:45	Plastic Strength of Externally Welded CHS-Transverse Plate T-Joints <b>(Paper ID: 224)</b>	Ali Ajwad <i>University of Salerno, Italy</i>
14:45 to 15:00	A Cross-Sectional Analysis of Sustainable Mobility for Female University Students in Karachi <b>(Paper ID: 513)</b>	Ashar Ahmed <i>NED UET, Karachi, Pakistan</i>
15:00 to 15:15	Optimized Prediction Modeling for Chlorinated Marine Concrete Using Decision Tree <b>(Paper ID: 124)</b>	Muhammad Luqman <i>Barrick Gold Corpor., Quetta, Pakistan</i>
15:15 to 15:30	Strengthening of Unreinforced Masonry Structure with Fiber-Reinforced Polymer <b>(Paper ID: 228)</b>	Ahmad Suboor <i>UET, Peshawar, Pakistan</i>
15:30 to 15:45	Mechanical and Permeation Properties of Concrete Using Indigenous Volcanic Ash as Partial Replacement of Cement <b>(Paper ID: 103)</b>	Munawar Hussain <i>UET, Taxila, Pakistan</i>
15:45 to 16:00	Examining Impact of Group Configuration on Pile Response Using Numerical Method <b>(Paper ID: 615)</b>	M. Awais Yaseen <i>UOL, Lahore, Pakistan</i>



**C3) Oral Presentations Parallel Session 2-3**

**Venue: B3**

**Session Chair: Engr. Talha Ahmed**  
**Session Co-Chair: Engr. Shaheed Ullah**

<b>Time</b>	<b>Paper</b>	<b>First Author</b>
14:10 to 14:30	<b>Challenges and Solutions for the Sustainable Groundwater Management in Pakistan</b> [KEYNOTE LECTURE]	<b>Dr. Khan Zeb Jadoon</b> <i>Dean, FET, IIU,</i> <i>Islamabad, Pakistan</i>
14:30 to 14:45	Experimental Investigation of Bridge Pier Scouring with Rip Rap Enclosed in Mesh (Paper ID: 229)	Fardeen Javaid <i>APCoMS,</i> <i>Rawalpindi, Pakistan</i>
14:45 to 15:00	Assessment of Flow and Mechanical Properties of Geo-Polymer Composite Foam Ceramic Fillers (Paper ID: 112)	Hammad Shaukat <i>UET,</i> <i>Taxila, Pakistan</i>
15:00 to 15:15	Assessment of Ablution Waste Water Quality for Various Mosques in Peshawar City (Paper ID: 402)	Hamad Khan <i>UET,</i> <i>Peshawar, Pakistan</i>
15:15 to 15:30	Enhancing Asphalt Pavement Performance with Phase Change Materials (Paper ID: 503)	M. Usman <i>APCoMS,</i> <i>Rawalpindi, Pakistan</i>
15:30 to 15:45	Optimized Prediction Modeling for TiO <sub>2</sub> -Catalyzed Photo-degradation Rate Constants of Water Contaminants using Machine Learning (Paper ID: 708)	Ayesha Noreen <i>UET,</i> <i>Peshawar, Pakistan</i>
15:45 to 16:00	Evaluation of Energy Content in Municipal Solid Waste of Low-Income Area Tehkal and High-Income Area Hayatabad of Peshawar K.P.K Pakistan (Paper ID: 711)	Muhammad Shahid Khan <i>UET,</i> <i>Peshawar, Pakistan</i>

**Poster Session and Tea Break: 16:05 HRS TO 16:40 HRS**

Venue: Old Cafeteria

Coordinator: Engr. Talha bin Tahir

Co-Coordinator: Engr. Naseem Ali

*Note: All poster presenters are requested to stand with their posters at their allocated space in Old Cafeteria. Don't forget to enjoy refreshments.*





### **D) Poster Presentations**

<b>Paper</b>	<b>First Author</b>
Performance of Concrete Containing Steel Waste Fibers <b>(Paper ID: 101)</b>	Muhammad Fiaz Tahir <i>UET, Taxila, Pakistan</i>
Conventional Empirical and Machine Learning Models: A Review of Chloride Concentration in Marine Concrete <b>(Paper ID: 128)</b>	Muhammad Arif <i>Barrick Gold Corpor., Quetta, Pakistan</i>
A Case Study on Remedial Measures for Fire-Damaged Structure <b>(Paper ID: 212)</b>	M. Dawood Ali <i>Rk ECS, Islamabad, Pakistan</i>
Sustainable Rehabilitation of Fire-Damaged Low-Rise RC Structures: Assessment, Retrofitting, and Bamboo Fiber Solutions <b>(Paper ID: 220)</b>	Faheem Ahmad Gul <i>NIT, China</i>
Assessing Structural Behaviour of FRP-Confined CFST Columns Through Finite Element Methods <b>(Paper ID: 230)</b>	Muhammad Azan Iqbal <i>UET, Taxila, Pakistan</i>
A Review on Fire Damage Assessment of Reinforced Concrete Structures of a Building <b>(Paper ID: 239)</b>	Ghazanfar Ali Anwar <i>CAiRS, H.K Sci Park, Hong Kong</i>
Design and Analysis of Green High-Rise Building using Recycled Materials <b>(Paper ID: 245)</b>	M Bilal Subhani <i>MUST, Mirpur (AJK), Pakistan</i>
Enhancing Structural Design Efficiency in Pakistan: A Case Study on The Impact of BIM Integration <b>(Paper ID: 246)</b>	Hassan Tahir <i>Designmen Cons. Engrs, Islamabad, Pakistan</i>
An Overview on Fire Damage Quantification and Retrofitting of Low-Rise Reinforced Concrete Structures <b>(Paper ID: 248)</b>	Javeria Mehwish <i>Brunel University, London, UK</i>
The Impact of Gypsum on the Stabilization of Peat Soil <b>(Paper ID: 602)</b>	Affaq Arif Gill <i>APCoMS, Rawalpindi, Pakistan</i>
Investigating Load Transfer Behaviour of Bored Piles in Layered Soil <b>(Paper ID: 616)</b>	Muhammad Ammar <i>UOL, Lahore, Pakistan</i>

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

Venue: **B1**

Session Chair: Dr. Majid Ali (*Conference Chair*)

Session Co-Chair: Engr. Minhas Shah (*Conference Secretary*)