Department of Civil Engineering
Capital University of Science and Technology (CUST), Islamabad, Pakistan

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)

INAUGURATION (09:00 HRS TO 09:15 HRS) Venue: A2				
venue. A2	Session Chair: Dr. Muazza	am Ghous Sohail		
	Session Co-Chair: Engr.	Shaheed Ullah		
Time	Activity			
09:00 to 09:05	Opening	g and Recitation		
09:05 to 09:10	Welcome by the	Vice Chancellor, CUST		
KEYNOTE LEC	TURES (09:15 HRS TO 10:05 HRS)			
Venue: A2				
	Session Chair: Dr. Muazza	nm Ghous Sohail		
	Session Co-Chair: Engr. Shaheed Ullah			
09:15 to 09:35	Building a Sustainable Future: The Role of Textile Waste Composites in Civil Engineering			
09:35 to 09:55	Alternative Materials for Buildings Construction in Pakistan	Dr. Khan Shahzada		
09:55 to 10:05	Closing Remarks	Dr. Imtiaz Ahmed Taj Dean, Faculty of Engineering, CUST Dr. Ishtiaq Hassan Head, Department of Civil Engineering, CUST		

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)

B1) Oral Presentations Parallel Session 1-1 Venue: B1

Session Chair: Dr. Muazzam Ghous Sohail Session Co-Chair: Engr. Sohail Afzal

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

B2) Oral Presentations Parallel Session 1-2 Venue: B2

Session Chair: Dr. Shuja Safdar

Session Co-Chair: Engr. Talha Ahmed

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

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B3) Oral Presentations Parallel Session 1-3 Venue: B3

Session Chair: Dr. Muhammad Usman Farooqi

Session Co-Chair: Engr. Faiza Khalid

Time	Paper	First Author
10:55 to 11:15	Applications of Centrifuge Modelling in Geotechnical Engineering and Research [KEYNOTE LECTURE]	Dr. Muhammad Shakeel AECOM, Hong Kong
11:15 to 11:30	Bridge Bearings Design and Replacement Challenges – A Case Study (Paper ID: 242)	Mustafa Zwain WSP, UK
11:30 to 11:45	Examination of the Effect of Illegal Parking on Capacity Reduction of Urban Roads (Paper ID: 514)	Ashar Ahmed NED UET, Karachi, Pakistan
11:45 to 12:00	Assessing the Combined Effects of Steel Speed Humps and Road Studs on Vehicle Performance (Paper ID: 507)	Ali Hassan Waraich UET, Taxila, Pakistan
12:00 to 12:15	Physical and Durability Properties of Steel Slag Particles for Use in Road and Concrete Works (Paper ID: 104)	Ahmad Faraz MUST, Mirpur (AJK), Pakistan
12:15 to 12:30	To Assess the Impact of Organophilic Nanoclay on Marshall Properties of Asphalt Material (Paper ID: 504)	Abu Bakar APCoMS, Rawalpindi, Pakistan
12:30 to 12:45	Effect of Aspect Ratio on Pile Group Response Under Axial Loading in Layered Soil (Paper ID: 614)	Moeez Saqib UOL, Lahore, Pakistan
12:45 to 13:00	Performance Evaluation of Sustainable Compressed Stabilized Earth Bricks (Paper ID: 107)	Shafi Ullah Anjum UET, Peshawar, Pakistan

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)

C1) Oral Presentations Parallel Session 2-1 Venue: B1

Session Chair: Engr. Faiza Khalid

Session Co-Chair: Engr. M. Waqas Malik

Time	Paper	First Author
14:10 to 14:30	Effect of Mortar Type on The Static and Dynamic Behaviour of Masonry Arches [KEYNOTE LECTURE]	Dr. George Wardeh IUT de Cergy-Pontoise, France
14:30 to 14:45	Sustainable Design of a Multi-Story Building Using Waste Marble and Ceramic (Paper ID:247)	M. Haroon Kabir MUST, Mirpur (AJK), Pakistan
14:45 to 15:00	Development of Fragility Curves for Masonry Building (Paper ID: 226)	Saif Ur Rehman UET, Taxila, Pakistan
15:00 to 15:15	A Simplified Numerical Model for Reinforced Concrete Beam-Column Joints (Paper ID: 223)	Muhammad Azeem UET, Peshawar, Pakistan
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 Designmen Cons. Engrs, Islamabad, Pakistan
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 UET, Taxila, Pakistan
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 University of Salerno, Italy

C2) Oral Presentations Parallel Session 2-2 Venue: B2

Session Chair: Engr. Talha bin Tahir Session Co-Chair: Engr. Sohail Afzal

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

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C3) Oral Presentations Parallel Session 2-3 Venue: B3

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

Time	Paper	First Author
14:10 to 14:30	Challenges and Solutions for the Sustainable Groundwater Management in Pakistan [KEYNOTE LECTURE]	Dr. Khan Zeb Jadoon Dean, FET, IIU, Islamabad, Pakistan
14:30 to 14:45	Experimental Investigation of Bridge Pier Scouring with Rip Rap Enclosed in Mesh (Paper ID: 229)	Fardeen Javaid APCoMS, Rawalpindi. Pakistan
14:45 to 15:00	Assessment of Flow and Mechanical Properties of Geo-Polymer Composite Foam Ceramic Fillers (Paper ID: 112)	Hammad Shaukat UET, Taxila, Pakistan
15:00 to 15:15	Assessment of Ablution Waste Water Quality for Various Mosques in Peshawar City (Paper ID: 402)	Hamad Khan UET, Peshawar, Pakistan
15:15 to 15:30	Enhancing Asphalt Pavement Performance with Phase Change Materials (Paper ID: 503)	M. Usman APCoMS, Rawalpindi, Pakistan
15:30 to 15:45	Optimized Prediction Modeling for TiO ₂ -Catalyzed Photodegradation Rate Constants of Water Contaminants Using Multi-Expression Programming and Artificial Neural Networks (Paper ID: 708)	Majid Khan Barrick Gold Corpor., Quetta, Pakistan
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 UET, Peshawar, Pakistan

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

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D) Poster Presentations

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

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)