



3rd Conference on Sustainability in Civil Engineering (CSCE'21)
 Department of Civil Engineering
 Capital University of Science and Technology, Islamabad Pakistan

CONFERENCE PROGRAM

Date: August 11, 2021

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

Platform: CSCE-Session1

Session Chair: Engr. Iqbal Ahmad

Session Co-Chair: Engr. Wajahat Ali Khawaja

Note: All participants are requested to join the online session.

INAUGURATION (09:00 HRS TO 09:15 HRS)		
Platform = CSCE-Session1		
Session Chair: Dr. Ishtiaq Hassan Session Co-Chair: Dr. Muhammad Usman Farooqi		
Time	Activity	
09:00 to 09:05	Opening and Recitation	
09:05 to 09:10	Welcome by VC, CUST	
KEYNOTE LECTURES (09:15 HRS TO 10:35 HRS)		
Platform = CSCE-Session1		
Session Chair: Dr. Syed Shujaa Safdar Gardezi Session Co-Chair: Engr. Mehran Sudheer		
09:15 to 09:35	Towards construction 4.0: Emerging technologies in the modern AEC industry	Dr. Salman Azhar <i>William A. Hunt Endowed Professor Auburn University, Alabama, USA</i>
09:35 to 09:55	Green and sustainable housing: socio-cultural and architectural perspectives and challenges	Dr. Muhammad Jamaluddin Thaheem <i>Postgraduate Course Director Deakin University, Australia</i>
09:55 to 10:15	Towards sustainable development in infrastructure management: Challenges and issues	Dr Nasir Shafiq <i>Professor Universiti Teknologi PETRONAS, Malaysia</i>
10:15 to 10:35	Inflow variability for improved water resources management	Dr Noor Muhammad Khan <i>Director Center of Excellence in Water Resources UET, Lahore, Pakistan</i>



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Oral Presentations - Technical Session I (11:15 HRS TO 13:00 HRS)

Parallel Session 1-1		
Platform = CSCE-Session1		
Session Chair: Engr. Talha Bin Tahir		
Session Co-Chair: Engr. Faiza Khalid		
Time	Paper	First Author
11:15 to 11:30	Impact of chopped basalt fibers on the mechanical properties of concrete (Paper ID: 112)	Rabee Shamass <i>London South Bank University UK</i>
11:30 to 11:45	Mechanical and durability properties of polypropylene concrete containing bentonite and silica fume (Paper ID: 151)	Inzimam Ul Haq <i>UET Taxila, Pakistan</i>
11:45 to 12:00	Effect of carbon black on properties of steel fiber-reinforced concrete (Paper ID: 168)	Abasal Hussain <i>Hong Kong Polytech. Univ. Hong Kong, China</i>
12:00 to 12:15	Workability of banana fibers reinforced concrete for easy pouring (Paper ID: 164)	Muhammad Abrar <i>University of South Asia Lahore, Pakistan</i>
12:15 to 12:30	Electrical properties of carbon nanotube and carbon fiber reinforced cementitious composites (Paper ID: 171)	Oğuzhan Öztürk <i>Konya Technical University Turkey</i>
12:30 to 12:45	Axial compressive behavior of non-bonded natural fiber rope-confined concrete: Experimental study (Paper ID: 140)	Muhammad Waqas Khan <i>UET Taxila, Pakistan</i>
12:45 to 13:00	Compressive toughness and empirical modeling of natural fiber reinforced silica fume-based concrete (Paper ID: 110)	Mehran Khan <i>Dalian Univ. of Technology China</i>



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Parallel Session 1-2		
Platform = CSCE-Session2		
Session Chair: Engr. Abdul Qadeer		
Session Co-Chair: Engr. Usman Hussain		
Time	Paper	First Author
11:15 to 11:30	General overview of safety practices in the construction industry of Pakistan (Paper ID: 317)	Saad Tariq Malik <i>Altunbaş University Turkey</i>
11:30 to 11:45	An overview on firefighting problems in reinforced concrete buildings (Paper ID: 307)	Muhammad Abrar <i>University of South Asia Lahore, Pakistan</i>
11:45 to 12:00	Analysis of mineral wool insulation on residential building (Paper ID: 315)	Danish Adnan <i>University of Central Punjab Lahore, Pakistan</i>
12:00 to 12:15	Barriers to supply chain management in the construction industry of Pakistan (Paper ID: 314)	Sayyeda Shanzay Rahat <i>NUST Islamabad, Pakistan</i>
12:15 to 12:30	Zero energy design: A case study of residential buildings with solar energy as energy solution (Paper ID: 316)	A. Moeez Usman <i>University of Central Punjab Lahore, Pakistan</i>
12:30 to 12:45	Feasibility Study of hybrid timber-concrete tall buildings (Paper ID: 233)	Muhammad Nauman <i>UET Taxila, Pakistan</i>
12:45 to 13:00	Assessing damage grades of buildings and their relationship with seismic risk perception, a case study of Pabbi, Khyber Pakhtunkhwa (Paper ID: 221)	Riazud din <i>UET Taxila, Pakistan</i>



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Parallel Session 1-3		
Platform = CSCE-Session3		
Session Chair: Engr. Wajahat Ali Khawaja		
Session Co-Chair: Engr. Muhammad Bilal		
Time	Paper	First Author
11:15 to 11:30	Comparison of actual truck traffic with live load models used for design of bridges in Pakistan (Paper ID: 511)	Asif Jalal <i>North Dakota State University USA</i>
11:30 to 11:45	A diffuse damage model for asphalt concrete (Paper ID: 509)	Awais Ahmed <i>UET Peshawar, Pakistan</i>
11:45 to 12:00	An overview of coastal erosion impacts on road infrastructure (Paper ID: 508)	Umair Ahmed <i>GREN Construction (Pvt.) Ltd. Pakistan</i>
12:00 to 12:15	Assessment of ground to air heat transfer system for local soil conditions (Paper ID: 601)	Muhammad Tayyab Naqash <i>Islamic University of Madinah KSA</i>
12:15 to 12:30	Development of empirical correlations between index and strength properties for indigenous subgrade soils (Paper ID: 614)	Zakirullah <i>UET Taxila, Pakistan</i>
12:30 to 12:45	Development of user-friendly tool for specification of highway works (Paper ID: 513)	Furqan Qamar <i>WSP UK</i>
12:45 to 13:00	Fracture resistance of warm mix asphalt modified with reclaimed asphalt pavement (Paper ID: 515)	Saad Tayyab <i>NUST Islamabad, Pakistan</i>



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Poster Presentations Session 1 (13:05 HRS TO 14:05 HRS)		
Platform = CSCE-Session1		
Session Chair: Engr. Iqbal Ahmed		
Session Co-Chair: Engr. Sohail Afzal		
Time	Paper	First Author
13:05 to 13:10	Evaluating the flexural performance of functionally graded concrete using steel fibres and recycled aggregates (Paper ID: 114)	Sabireen <i>UET Taxila, Pakistan</i>
13:10 to 13:15	Modern Methods of Residual Strength Assessment of Fire Damaged RC Structure-A Review (Paper ID: 214)	Muhammad Sultan Sikandar <i>Lahore Leads University Lahore, Pakistan</i>
13:15 to 13:20	Influential assessment of macro synthetic fibers on mechanical properties of concrete containing E- waste coarse aggregates (Paper ID: 137)	Zeeshan Ahmad <i>UET Taxila, Pakistan</i>
13:20 to 13:25	A Review on FRP Repairing of Fire Damaged RC Members (Paper ID: 103)	Blawal Hasan <i>University of South Asia Lahore, Pakistan</i>
13:25 to 13:30	Numerical Analysis of Compressive Behavior of GFRP Reinforced Hollow Concrete Columns (Paper ID: 228)	Tanwir Ullah <i>UET Taxila, Pakistan</i>
13:30 to 13:35	Effect on workability, compressive, and tensile strength of geopolymer concrete incorporated with quarry rock dust, fly ash, and slag cured at ambient and elevated temperatures (Paper ID: 132)	Khadim Hussain <i>UET Taxila, Pakistan</i>
13:35 to 13:40	Investigation of high strength concrete bridge piers retrofitted with CFRP under seismic loading (Paper ID: 231)	Obaid Shahid Mir <i>UET Taxila, Pakistan</i>
13:40 to 13:45	Evaluating the mechanical and durability performance of concrete utilizing plastic fine aggregate (Paper ID: 133)	Kiffayat Ullah <i>UET Taxila, Pakistan</i>
13:45 to 13:50	Analytical investigation of typical scale down bridge pier retrofitted with CFRP under seismic loading (Paper ID: 232)	Mustahsan Iqbal <i>UET Taxila, Pakistan</i>
13:50 to 13:55	Experimental investigation of the influence of nano graphite platelets on the compressive strength of concrete with recycled plastic aggregates (Paper ID: 134)	Farhan Ahmad <i>UET Taxila, Pakistan</i>



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13:55 to 14:00	Seismic vulnerability assessment and retrofitting of reinforced concrete bridge by RC jacketing (Paper ID: 235)	Ahsan Khalil <i>UET</i> <i>Taxila, Pakistan</i>
14:00 to 14:05	Effect of jute fiber and recycled coarse aggregates on the compressive strength and porosity of concrete (Paper ID: 136)	Hafiz Kamran Jamil <i>UET</i> <i>Taxila, Pakistan</i>



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Oral Presentations - Technical Session II (14:10 HRS TO 16:00 HRS)

Parallel Session 2-1		
Platform = CSCE-Session1		
Session Chair: Engr. Faiza Khalid		
Session Co-Chair: Engr. Shaheed Ullah		
Time	Paper	First Author
14:10 to 14:30	Assessment process for various bridges as per BS standards (KEYNOTE LECTURE)	Dr. Furqan Qamar <i>WSP UK</i>
14:30 to 14:45	Structural performance of GFRP-reinforced BCJ through finite element analysis (Paper ID: 236)	Anees ur Rehman <i>UET Taxila, Pakistan</i>
14:45 to 15:00	A state-of-the-art review, impact of windstorm on steel structure in East Asia (Paper ID: 227)	Hafiz Muhammad Bilal <i>HH Robertson Pakistan (Pvt.) Ltd. Pakistan</i>
15:00 to 15:15	Predicting the compressive strength of fly ash based geopolymers by ANFIS models (Paper ID: 239)	Zainab Tariq <i>UET Lahore, Pakistan</i>
15:15 to 15:30	Earthquake risk assessment for single storey residential buildings - A overview (Paper ID: 224)	Muhammad Sultan Sikandar <i>Lahore Leads University Lahore, Pakistan</i>
15:30 to 15:45	Design Optimization of steel structures through internal stress diagrams of Low-Rise buildings (Paper ID: 238)	Asif Nazir <i>University of Lahore Lahore, Pakistan</i>
15:45 to 16:00	Fire damage assessment of reinforced concrete structures A-review (Paper ID: 216)	Ali Rehman <i>Comsats Abbottabad, Pakistan</i>



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Parallel Session 2-2		
Platform = CSCE-Session2		
Session Chair: Engr. Talha Bin Tahir		
Session Co-Chair: Engr. Umair Ahmed		
Time	Paper	First Author
14:10 to 14:30	A monte-carlo simulation based earthquake risk assessment framework for developing countries (KEYNOTE LECTURE)	Dr. Shaukat Ali Khan <i>Associate Dean, FoE&C Abasyn University Peshawar, Pakistan</i>
14:30 to 14:45	Predicting the impact of chemical and physical variability in binary and ternary cementitious blends (Paper ID: 135)	Vireen Limbachiya <i>London South Bank University UK</i>
14:45 to 15:00	Experimental investigation of shear strength of sand mixed with tire shred (Paper ID: 609)	Farhan Ahmad <i>UET Taxila, Pakistan</i>
15:00 to 15:15	Utilization of bagasse ash for serviceability enhancement of bituminous pavements (Paper ID: 510)	Asad Zia <i>Zhengzhou University China</i>
15:15 to 15:30	Appraisal of an environment-friendly geopolymer for civil engineering applications (Paper ID: 605)	Tahah Ali Taga <i>UET Taxila, Pakistan</i>
15:30 to 15:45	Modern repairing techniques of RC buildings damaged due to earthquake disaster – A review (Paper ID: 222)	Muhammad Abrar <i>University of South Asia Lahore, Pakistan</i>
15:45 to 16:00	The effect of using jute fiber on deformation resistance of asphalt concrete (Paper ID: 512)	Muhammad Fawad Rashid <i>UET Taxila, Pakistan</i>



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Parallel Session 2-3		
Platform = CSCE-Session3		
Session Chair: Engr. Dr. Shahmir Janjua		
Session Co-Chair: Engr. Huzaifah Zahran		
Time	Paper	First Author
14:10 to 14:30	Water and sanitation services delivery in KP: Challenges and opportunities (KEYNOTE LECTURE)	Dr. Hassan Nasir <i>Chief Executive Officer</i> WSSP <i>Peshawar, Pakistan</i>
14:30 to 14:45	Effect of heavy construction on the ambient environment of Al-Masjid-e-Nabawi (ﷺ) and Harem Al-Madinah (Paper ID: 710)	Qazi Umar Farooq <i>Islamic University of Madinah</i> KSA
14:45 to 15:00	Identifying and ranking of criteria for the sustainable location of waste transfer station: A way out for waste to energy and three R's approach (Paper ID: 707)	Rasool Bux <i>MUET</i> <i>Jamshoro, Pakistan</i>
15:00 to 15:15	Numerical investigation of flow behaviour in a rough bank open channel with vegetation patches (Paper ID: 410)	Muhammad Bilal <i>UET</i> <i>Taxila, Pakistan</i>
15:15 to 15:30	An overview on the causes and impacts of floods on building construction (Paper ID: 404)	Umair Abbas <i>Lahore Leads University</i> <i>Lahore, Pakistan</i>
15:30 to 15:45	Applicability and evaluation of IMERG precipitation product: A systematic review (Paper ID: 405)	Awais Ahmed Awan <i>University of Lahore</i> <i>Islamabad, Pakistan</i>
15:45 to 16:00	GIS-based Identification of River Bank erosion and Flood Water Management (Paper ID: 408)	Ghulam Abbas <i>UET</i> <i>Taxila, Pakistan</i>



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<u>Poster Presentations Session II (16:05 HRS TO 17:15 HRS)</u>		
Platform = CSCE-Session1		
Session Chair: Engr. Iqbal Ahmad		
Session Co-Chair: Engr. Sohail Afzal		
Time	Paper	First Author
16:05 to 16:10	Retrofitting of reinforced concrete columns by NSM reinforcement (Paper ID: 138)	Adam Khan <i>UET Taxila, Pakistan</i>
16:10 to 16:15	Experimental testing, FE modelling and analysis of geopolymer concrete columns with steel reinforcement (Paper ID: 237)	Adal Imtiaz <i>UET Taxila, Pakistan</i>
16:15 to 16:20	Mechanical properties of natural fiber reinforced concrete (Paper ID: 139)	Muhammad Saqib <i>UET Taxila, Pakistan</i>
16:20 to 16:25	Strengthening of ambient cured quarry rock dust incorporated geopolymer concrete beams (Paper ID: 148)	Muhammad Awais <i>UET Taxila, Pakistan</i>
16:25 to 16:30	Effect of carbon nanotubes and fly ash on mechanical and microstructural properties of cement mortars (Paper ID: 144)	Raja Wajahat Zahoor Khan <i>UET Taxila, Pakistan</i>
16:30 to 16:35	To study the behavior of fiber reinforced concrete against fire by using SikaFiber®12 (Paper ID: 145)	Muhammad Abu Bakar <i>UET Taxila, Pakistan</i>
16:35 to 16:40	Performance evaluation of ambient cured quarry rock dust (QRD) incorporated geopolymer concrete (GPC) beams (Paper ID: 147)	Abdul Ghafar <i>UET Taxila, Pakistan</i>
16:40 to 16:45	Evaluation of performance of self-compacting concrete with mineral admixtures by artificial neural networks (Paper ID: 150)	Nauman Shahid <i>UET Taxila, Pakistan</i>
16:45 to 16:50	Workability of rice husk reinforced concrete for easy pouring (Paper ID: 152)	Hafiz Muhammad Bilal <i>HH Robertson Pakistan (Pvt.) Ltd. Pakistan</i>
16:50 to 16:55	An overview on compressive behaviour of coconut fiber reinforced plaster (Paper ID: 120)	Ali Rehman <i>Comsats Abbottabad, Pakistan</i>



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16:55 to 17:00	Building Information Modeling for Historic Structures: A Case Study of Historic Shrines of Multan (Paper ID: 318)	Hafiz Noman Ahmad <i>BZU</i> <i>Multan, Pakistan</i>
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Closing Ceremony (17:00 HRS TO 17:15 HRS)

Platform = CSCE-Session1

Session Chair: Dr. Majid Ali; Session Co-Chair: Dr. Syed Shujaa Safdar Gardezi