

Conference Schedule

Day 1: Monday, February 26, 2024

09:00 – 10:00	Registration
10:00 – 10:45	Opening Ceremony (ESB 0037)
Keynote Speaker	(ESB 0037)
10:45 – 11:30	Prof. UEDA Tamon, Distinguished Professor at College of Civil and Transportation Engineering, Shenzhen University and Professor Emeritus of Hokkaido University.
11:30 – 12:00	Coffee Break
(Invited Speakers)	(ESB 0037)
12:00 – 12:30	Mr. Elio Calidori, Director, RINA Consulting Engineering & Management Consulting, Innovation
12:30 – 12: 50	Dr. Samer Al Martini, Abu Dhabi University
12:50 – 13:10	Ms. Nouran Elmesalami, Ph.D. Candidate at NYU- Abu Dhabi
13:10 – 13:30	Dr. Reem Sabouni, Abu Dhabi University
13:30 – 14:30	Lunch
14:30 - 15:50	Session A-1 (Materials and Methods) (ESB 1049)
16:00 – 17:20	Session A-2 (Young Researchers) (ESB 1049)

Day 1: Monday, February 26, 2024

Session A-1 (Materials and Methods) 14:30–15:50		
Session Chair: Dr. Sami Tabsh		Location: ESB 1049
Time	Paper Title	Author(s)
14:30-14:50	Impact Behavior of Rubberized Concrete: An Analysis of Pendulum Impacts on Short F-shaped Barriers	Xin Lyu, Mohamed Elchalakani
14:50-15:10	Stabilization of Sand with Natural and Artificial Geofibers	Magdi El-Emam, Sami W. Tabsh
15:10-15:30	Use of Stabilisation Geogrids in Flexible Pavements Design	Piotr Mazurowski
15:30–15:50	New Generation of Stabilisation Geogrids	Piotr Mazurowski

Session A-2 (Young Researchers) 16:00–17:20		
Session Chair: Dr. Magdi El-Emam		Location: ESB 1049
Time	Paper Title	Author(s)
16:00-16:20	Strengthening of Fiber Reinforced Recycled Aggregate Beams	Ali Al Fakhouri, Mohamed Imbabi, Sherif Yehia, Mohamed Elchalakani, Ahmad Selim
16:20-16:40	Infrastructure Health Monitoring Techniques	Sherif Yehia, Khalid Khalil, Bashar Al-Momani, Akmal Abdelfatah
16:40-17:00	Non-Destructive Techniques and Their Reliability for Bridge Inspection	Omar Salman, Prateek Uppin, Sherif Yehia
17:00-17:20	Evaluation of Compressive Strength for Recycled Aggregate Concrete Reinforced with Polypropylene Fibers	Omar Turk

Day 2: Tuesday, February 27, 2024

Keynote Speakers (ESB 0037)

09:30–10:15	Professor Petr Hájek, Czech Technical University in Prague, Faculty of Civil Engineering Czech Republic
10:15–11:00	Brian Cole
11:00 – 11:30	Coffee Break
11:30 – 12:50	Session B-1 (Concrete Strengthening) (ESB 1049)
13:00 – 14:30	Lunch
14:30 - 15:50	Session B-2 (Infrastructure Evaluation) (ESB 1049)
16:00 – 17:20	Session B-3 (Infrastructure Management) (ESB 1049)
19:00 – 21:00	Gala Dinner and Closing Ceremony

Day 2: Tuesday, February 27, 2024

Session B-1 (Concrete Strengthening) 11:30–12:50		
Session Chair: Dr. Farid Abed		Location: ESB 1049
Time	Paper Title	Author(s)
11:30-11:50	Developing a Sustainable Cement-Free Binder Consisting of Volcanic Ash (VA) and Calcium Carbide Residue (CCR)	Jad Bawab, Amr El Dieb, Hilal El Hassan, Omar Ghunaim, Rashed Alkaabi, Samer Al Antabli
11:50-12:10	Shear Behaviour of Lightweight SCC beams internally reinforced with impregnated CFRP sheet stirrups and GFRP bars	Waleed Nawaz, Mohammad Elchalakani , Sherif Yehia
12:10-12:30	Flexural Response of Concrete Beams Confined with Steel Welded Wire Mesh	Abdelaziz Younes, Sami Tabsh
12:30-12:50	The Use of a Reduced BFRP Tie Spacing in FRP-RC Columns	Nour Ghazal Aswad, Khaled Obeidat, Farid Abed

Session B-2 (Infrastructure Evaluation) 14:30–15:50		
Session Chair: Dr. Tarig Ali		Location: ESB 1049
Time	Paper Title	Author(s)
14:30-14:50	Evaluation of Water Leakage Location through Hydraulic Modelling	Eisa M. Alzarooni, Serter Atabay, Maruf Mortula, Tarig Ali
14:50-15:10	Evaluation of Concrete Bridge Decks through Large-scale Accelerated Structural Testing	Sharef Farrag, Nenad Gucunski, John Braley, Seong-Hoon Kee
15:10-15:30	Development of a Machine Learning Based Smart Water Leak Detection System	Rabab Al Hassani, Maruf Mortula, Tarig Ali
15:30-15:50	Maintenance Strategies and Techniques for Concrete Bridges	Rawan Alrashed, Firas Safadi, Sherif Yehia, Akmal Abdelfatah

Session B-3 (Infrastructure Monitoring) 16:00–17:20		
Session Chair: Dr.		Location: ESB 1049
Time	Paper Title	Author(s)
16:00-16:20	Structural health monitoring of LWC beams with smart ULW-ECC layer incorporating FRP mesh	Zhiheng Hu, Mohamed Elchalakani, Reza Hassanli, Hongyu Ran, Mohamed Ali Sadakkathulla
16:20-16:40	Optimal Policies for Greenhouse Gas Emission Minimization Under Multiple Agency Budget Constraints in Pavement Management	Samer Madanat

16:40-17:00	Impact of calcium content and pH value on MICP crack healing of geopolymer concrete	Yiming Zhou, Mohamed Elchalakani, Mohamed Shahin, Liang Cheng
17:00-17:20	Factors Impacting Bridge Deterioration	Rawan Alrashid, Akmal Abdelfatah, Sherif Yehia