

**16<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 01**

**Tall Building Session**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1</a>		
	Meeting ID: 881 0114 7875 Passcode: 672369		
Session Chair 1	Prof. Priyan Mendis	Session Coordinator 1	Mr. Chamath Pigerera
Session Chair 2	Eng. Shiromal Fernando	Session Coordinator 2	Mr. Hashan Thilakarathna
09.00 – 09.10 hrs	Welcome Address	Eng. Shiromal Fernando - CTBUH Sri Lanka	
09:10 - 09:30 hrs	Key Lecture 01	Dr. Damith Mohotti	Predicting transient along wind pressure over a tall building using machine learning
09.30 – 09.45 hrs	Key Lecture 02	Arct. Nirodha Gunadasa	Modern Design Technology of Tall Buildings
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.45 – 10.00 hrs	ICSBE_401	ARTIFICIAL INTELLIGENCE APPLICATION IN ARCHITECTURE AND ENGINEERING <i>R.M.H Liyanage, Shiromal Fernando, Priyan Mendis</i>	
10.00 – 10.15 hrs	ICSBE_295	COMPARATIVE STUDY OF WIND LOADING COMBINATIONS FOR TALL BUILDINGS INCLUDING TORSION: A CFD APPROACH <i>B. Kiriparan, J. A. S. C. Jayasinghe, U. I. Dissanayake, W. J. B. S. Fernando</i>	
10.15 – 10.30 hrs	ICSBE_176	EVALUATION OF EARTHQUAKE DESIGN RESPONSE SPECTRA FOR SRI LANKA CONSIDERING SHORT PERIOD EFFECTS <i>H.A.D.S. Buddika, N.S. Peiris, B.R.D. Peiris</i>	
10.30 – 10.45 hrs	ICSBE_271	IDENTIFICATION OF NATURAL FREQUENCY AND DAMPING RATIO OF TALL BUILDINGS IN SRI LANKA USING AMBIENT WIND VIBRATION DATA <i>H.A.D. Samith Buddika, U.G.K. Prabodya, T.A. Madusanga</i>	
10.45 – 11.00 hrs	ICSBE_282	NUMERICAL STUDY ON EXTERNAL PRESSURE VARIATION OF TALL-BUILDINGS DUE TO INTERFERING EFFECTS <i>E. M. R. Ekanayake, H. M. A. I. Herath, J. A. S. C. Jayasinghe and A. J. Dammika</i>	

**16<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 02**

**IESL Speical Session**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1</a>	
	Meeting ID: 881 0114 7875 Passcode: 672369	
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>
11.30 - 11.40 hrs	Key Lecture	Prof. Ranjith Dissanayake - President IESL
11.40 – 11.50 hrs	Lecture 01	Eng. (Dr.) Kamal Laksiri - Immediate past president
11.50 – 12.00 hrs	Lecture 02	Prof. Priyan Mendis- University of Melbourne
12.00 – 12.10 hrs	Lecture 03	Eng. Sarath Gamini
12.10 - 12.20 hrs	Lecture 04	Prof. Janaka Ekanayaka
12.20 - 12.45 hrs	Panel Discussion	Prof. Janaka Ruwanpura (Moderator)
		Prof. Ranjith Dissanayake, Prof. Priyan Mendis, Eng. Sarath Gamini, Prof. Janaka Ekanayaka
12.45 – 12.50 hrs	Closing remarks	

**16<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 03**

**Concrete Technology and High-Performance Concrete**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1</a>		
	Meeting ID: 881 0114 7875 Passcode:672369		
Session Chair 1	Prof. Hiran yapa	Session Coordinator 1	Mr. Chamath Pigera
Session Chair 2	Dr, Dhammika Abeykoon	Session Coordinator 2	Mr. Hashan Thilakarathna
14.15 - 14.20 hrs	Introduction to Keynote Lecturer	Session Chair 01	
14.20 - 14.45 hrs	Keynote	Assoc. Prof. Sudharshan N. Raman	FEASIBILITY OF COAL BOTTOM ASH AS A SUPPLEMENTARY BINDING MATERIAL IN CEMENT-BASED COMPOSITES
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.45 - 15.00 hrs	ICSBE_72	FUNCTIONAL EVALUATION OF IDENTIFIED RURAL CONCRETE ROADS IN SRI LANKA - A CASE STUDY <i>K. P. Arandara, S. T. Priyadarshana, G. N. Pranavithana, R. B. Mallick, R. Dissanayake</i>	
15.00 - 15.15 hrs	ICSBE_145	EFFECTS OF POROSITY AND DISTRESSES IN CONCRETE ON ULTRASONIC PULSE VELOCITY READINGS <i>M.Mayooran, J.C.P.H.Gamage, E.R.K.Chandratilaka</i>	
15.15 - 15.30hrs	ICSBE_234	DEVELOPMENT OF LIGHTWEIGHT AGGREGATE CONCRETE WITH RECYCLED HDPE PLASTIC PALLETS <i>T.D.B. Nawarathna, K.M.C. Konthesingha, S.M.A. Nanayakkara, H.M.S.C. Rathnasiri, I.R. Upasiri, W.P.H.P. Weerasinghe, P.M.W.P. Kumara, A. Branavan</i>	
15.30 - 15.45 hrs	ICSBE_10	IMPROVING MIXED CONSTRUCTION AND DEMOLITION WASTE USED AS FINE AGGREGATES IN CONCRETE PRODUCTION BY PHYSICAL PRE-TREATMENT <i>R. N. Udarika, C.K. Pathirana</i>	

**16<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 04**

**Sustainable Construction and Green Building Techniques**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1</a>		
	Meeting ID: 881 0114 7875 Passcode: 672369		
Session Chair 1	Dr. Ajith Thambo	Session Coordinator 1	Mr. Chamath Pigera
Session Chair 2	Arct. Nirodha Gunadasa	Session Coordinator 2	Mr. Hashan Thilakarathna
16.35 - 16.40 hrs	Introduction to Keynote Lecturer	Session Chair 01	
16.40- 17.05 hrs	Keynote by	Prof. Lu Aye	NET-ZERO CARBON AND HEALTHY BUILDINGS
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
17.05 - 17.20 hrs	ICSBE_3	SIMULATION OF TIME DEPENDENT BEHAVIOUR OF RESTRAINED RC ELEMENTS <i>S.P.D. Danushka, J.M.C.I. Jayasinghe, H.D. Yapa</i>	
17.20 - 17.35 hrs	ICSBE_27	ANALYSIS OF MIDDLE INCOME HOUSING MARKET IN COLOMBO MUNICIPAL COUNCIL AREA: SOCIO-PSYCHOLOGICAL FACTORS FROM STATE SECTOR PROFESSIONALS' POINT OF VIEWS <i>R.P. Maladugala, R.G. Ariyawansa</i>	
17.35 - 17.50 hrs	ICSBE_37	IMPACTS OF SUSTAINABLE HIGHWAY CONSTRUCTION ON THE ECONOMY OF SRI LANKA: A SYSTEMATIC LITERATURE REVIEW <i>I.H.G.Y.M. Udari Yaparathne, Kavini Guruge</i>	
17.50 - 18.05 hrs	ICSBE_356	HOW GREEN IS WORLD'S GREENEST CITY? <i>Şerban Procheş</i>	
18.05 - 18.20 hrs	ICSBE_174	EXPERIMENTAL INVESTIGATION ON POROUS CONCRETE FOR SUSTAINABLE DRAINAGE SYSTEMS <i>D.R.T. Niwunhella, D.N.S. Kalpadeep, N.G.P.B. Neluwala, A.J. Dammika</i>	
18.20 - 18.35 hrs	ICSBE_77	EMISSION REDUCTION POTENTIAL AND LAND-USE IMPLICATIONS OF DECARBONISING THE POWER SECTOR IN SRI LANKA <i>Lahiru Jayasuriya, Gayan Subasinghe, Mevan Pathirathne, Thusitha Sugathapala</i>	

**16<sup>th</sup> December 2023**

**Room 2 (Hybrid)/ Session 01**

**RMIT Sri Lanka Joint Research Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09">https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09</a>	
	Meeting ID: 971 4465 7867 Passcode: 816212	
<b>Time</b>	<b>Description</b>	<b>Facilitator(s)</b>
09.00 – 09.20 hrs	Welcome to the plenary session from Conference Chair	Prof. Ranjith Dissanayake
09.20 – 09.35 hrs	Introduction to the joint Ph.D program	Prof. Sujeeva Setunge, Associate Deputy Vice-Chancellor (Research & Innovation), STEM college, RMIT University
09.35 – 09.50 hrs	Future directions and RTP internships	Prof. Denise Cuthbert ADVC Research Training and Development, RMIT University
09.50 – 10.05 hrs	Panel Discussion Academic-Industry forum: Progress, Industry engagement and future opportunities	Panel Chairs UoP: Prof. Nadeeshani Nanayakkara UoM: Senior Prof. Chintha Jayasinghe UoR: Dr. Ruwan Appuhamy UoSJP: Prof. Chaminda Konthesingha
10.05 – 10.20 hrs		UoP: Dr. S. K. Weragoda Director/Joint Research and Demonstration Center for Water Technology (JRDC),
10.20 – 10.35 hrs		UoM: Eng. Dhammika Silva General Manager, Head of Engineering Designs & Design Department, Access Engineering PLC  Design Department Head of Engineering Designs  Design Department
10.35 – 10.50 hrs		UoR: Mr. Lakmal Dharmasena QA/QC Manager, SMS Holdings (Pvt) Ltd;
10.50 - 11.00 hrs		Panel Discussion and Questions from the audience, Closure of plenary session Prof Kevin Zhang, Associate Dean in Civil & Infrastructure Engineering at RMIT University

**16<sup>th</sup> December 2023**

**Room 2 (Hybrid)/ Session 02**

**SECRA/ FOUNTAIN Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmVIMHhEZz09">https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmVIMHhEZz09</a>		
	Meeting ID: 971 4465 7867 Passcode: 816212		
Session Chair 1	Prof. Guttila Jayasinghe	Session Coordinator 1	Mr. Ravindra Ekanayake
Session Chair 2	Prof. Emeritus K. D. N. Weerasinghe	Session Coordinator 2	Mr. Ravindu Udara
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
14.15 - 14.20 hrs	Welcome address	Prof. Roshan D. Yapa	
14.20 - 14.35 hrs	Key Lecture 01	Mr. Migara Amithodhana	
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.35 - 14.50 hrs	ICSBE_297	SPATIAL AND TEMPORAL VARIABILITY OF RAINFALL TRENDS TO INDICATE THE CLIMATE CHANGE AND EXTREME WEATHER EVENTS FOR PAST THREE DECADES – A STUDY IN GALLE DISTRICT FROM 1992 TO 2022 <i>P L C Perera, M Ranagalage , G Y Jayasinghe</i>	
14.50 - 15.05 hrs	ICSBE_283	INVESTIGATING HOW GREEN INFRASTRUCTURE AFFECTS PARTICULATE MATTER CONCENTRATIONS IN URBAN STREET ENVIRONMENTS <i>H.A.T.N. Perera, K.G.N.H. Weerasinghe, R.U. Halwatura, G.Y. Jayasinghe</i>	
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
15.05 - 15.20 hrs	Key Lecture 02	Prof. Ranjith Dissanayake	
15.20 - 15.35 hrs	Key Lecture 03	Eng. Shiromal Fernando	
15.50 - 16.05 hrs	ICSBE_300	AN ASSESSMENT OF ENTREPRENEURIAL RESILIENCE AMONG WOMEN ENTREPRENEURS IN SRI LANKA <i>D.P.Lokuwithana, K.Hemachandra, P.B.R.Dissanayake</i>	
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	

16.35 hrs - 16.50 hrs	Key Lecture 04	Prof. Roshan D. Yapa
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>
16.50 - 17.05 hrs	ICSBE_302	FINANCIAL INSTITUTIONS' READINESS TO SUPPORT SMES AMIDST THE ECONOMIC CRISIS - PERCEPTIONS OF GROUND-LEVEL OFFICERS: A CASE STUDY FROM SRI LANKA <i>S.M.S.N. Senanayake, P.A.N.P. Pandipperuma, J.M.H.M. Upulwehera, P.B.R. Dissanayake, R.P.I.R. Prasanna</i>
17.05 - 17.20 hrs	ICSBE_308	INNOVATION ECOSYSTEMS: SUSTAINING UNIVERSITY-INDUSTRY HARMONY IN THE ASIAN EDUCATIONAL LANDSCAPE <i>S.M.S.N. Senanayake, T.S. Ukwatte, G. Y. Jayasinghe, P.A.N.P. Pandipperuma, J.M.H.M. Upulwehera, M.C. Karunadasa, K.M.C. Tharupath, P.B.R. Dissanayake, Lahiru N. Dissanayake, C. S. Bandara</i>
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>
17.20 - 17.35 hrs	Key Lecture 05	Mr. Chamath Kandambi
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>
17.35 - 17.50 hrs	ICSBE_291	REVISITING LAND USE PLANNING POLICIES FOR RIVERBANK SETTLEMENTS: LESSONS FROM MELAMCHI FLOOD IN NEPAL <i>Sanjaya Uprety, Barsha Shrestha</i>
17.50 - 18.05 hrs	ICSBE_303	THE IMPACT OF CLIMATE CHANGE ON FOOD SECURITY: A REVIEW OF RECENT RESEARCH <i>W.G.M Randika, S.M.T.P Suriyapperuma, G.Y. Jayasinghe</i>
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>
18.05 - 18.30 hrs	Panel Discussion	Moderator · Prof. Roshan D. Yapa, University of Peradeniya Panelists
		Mr. Migara Amithodhana, Co-Founder and CEO MagicBit, Mr. Chamath Kandambi, Founder and CEO 360 Labs, Eng. Shiromal Fernando, Civil & Structural Engineering Consultants (Pvt) Limited
18.30- 18.35 hrs	Closing note	Prof. Chaminda Bandara

**16<sup>th</sup> December 2023**

**Room 3 (Hybrid)/ Session 01**

**Structural Engineering Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVVoZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVVoZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708 Passcode: 182599		
Session Chair 1	Prof. Upul Attanayake	Session Coordinator 1	Mr. Dilan Danushka
Session Chair 2	Prof. Thishan Jayasinghe	Session Coordinator 2	Mr. J A I D Viduranga
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.00 – 09.15 hrs	IABMAS_181	STEEL TRUSS BRIDGE WITH BUCKLING RESTRAINED DAMPERS UNDER SEISMIC LOADING <i>E. Yamaguchi, N. Enkbold, P. Sosorburam</i>	
09.15 – 09.30 hrs	ICSBE_351	A FUZZY ANALYSIS APPROACH FOR EVALUATING THE INFLUENCE OF SUBJECTIVE APPRAISAL ON CONSTRUCTION PRODUCTIVITY DRIVERS <i>Amila Premakumara, Isuri Amarasinghe, Chandana Siriwardana</i>	
09.30 – 09.45 hrs	ICSBE_352	FINITE ELEMENT MODELLING OF FATIGUE CRACK GROWTH OF CSH SUBJECTED TO CYCLIC FLEXURAL LOADING <i>S.Abeygunasekara, J.C.P.H.Gamage, S.Fawzia</i>	
09.45 – 10.00 hrs	ICSBE_353	COMPRESSIVE STRENGTH PREDICTION OF ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE (UHPFRC) USING ARTIFICIAL NEURAL NETWORKS <i>R.S.S.A. Wijesundara, K.K. Wijesundara, N.M.S.H. Bandara</i>	
10.00 – 10.15 hrs	ICSBE_186	REUSABILITY OF CONCRETE STRUCTURAL ELEMENTS AFTER THE SERVICE LIFE – SRI LANKAN PERSPECTIVE <i>S.A.R.B.S. Siriwardhana, G. Tharmarajah</i>	
10.15 – 10.30 hrs	ICSBE_275	SUITABILITY ASSESSMENT OF COMPOSITE CROSSARMS <i>S Bandara, P Rajeev, E Gad</i>	



**16<sup>th</sup> December 2023**

**Room 3 (Hybrid)/ Session 02**

**Sustainable Agriculture Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVoZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVoZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708 Passcode: 182599		
Session Chair 1	Prof. Guttila Jayasinghe	Session Coordinator 1	Mr. Dilan Danushka
Session Chair 2	Prof. Champa Nawarathne	Session Coordinator 2	Mr. J A I D Viduranga
Time	Paper ID	Title	
11.30 - 11.45 hrs	ICSBE_84	EVALUATION OF ANTIMICROBIAL AND ANTIOXIDANT EFFECTS OF CHITOSAN-BASED EDIBLE, BIODEGRADABLE FILMS CONTAINING CINNAMON ( <i>Cinnamomum zeylanicum</i> ) ESSENTIAL OIL FOR FOOD PACKAGING <i>K.G. Kaushani, N.P. Katuwavila, R.A. Jayasinghe, A.H.L.R. Nilmini, G. Priyadarshana</i>	
11.45 - 12.00 hrs	ICSBE_52	DESIGN AND DEVELOPMENT OF A HEAVY-DUTY DRONE FOR PEST CONTROL AND NON-HEALTHY TREE IDENTIFICATION IN NUTMEG CULTIVATION IN THE CENTRAL PROVINCE OF SRI LANKA <i>J.K.R.L. Weerawardhana, W.M.H.M. Aththnayaka, M.L. Rankothge</i>	
12.00- 12.15 hrs	ICSBE_254	SUSTAINABLE TEA PLANTATION: A STUDY CONDUCTED ON THE SUSTAINABLE STRATEGIES UNDERTAKEN TO OVERCOME THE IMPACT OF ECONOMIC RECESSION IN WELIMADA TEA ESTATES <i>N. M. S. U. Nissanka</i>	
12.15- 12.30 hrs	ICSBE_219	GREEN FINANCING AS A MEASURE TO BUILD RESILIENCE AMONG FISHERIES COMMUNITIES IN SRI LANKA <i>M.M.S.C. Senevirathne, D.A.M. De Silva, M.Esham, C.N. Pupunawaththa</i>	
12.30 - 12.45 hrs	ICSBE_220	BUSINESS CONTINUATION MECHANISM FOR TEA SMALLHOLDERS: BUILDING RESILIENCE ON CLIMATE-INDUCED DISASTERS <i>M.G.D.N.M. Wijerathne, D.A.M. De Silva</i>	
12.45 - 13.00 hrs	ICSBE_217	SMALL-SCALE FISH PROCESSING ESTABLISHMENTS AND THEIR VULNERABILITY TO CLIMATE HAZARDS <i>W.B.G.S. Welihinda, D.A.M. De Silva</i>	
13.00-13.15 hrs	ICSBE_358	DEVELOPMENT OF LIGHTWEIGHT EXPANDED CLAY AGGREGATES FORMED USING SLUDGE DISCHARGED FROM THE DRINKING WATER TREATMENT PROCESS <i>Sajani H. Kolambage, Dimalka R.M.N, Chathura Sanjeewa W., Pradeep Gajanayake</i>	
13.15-13.30 hrs	ICSBE_65	CHARACTERISTICS OF ESSENTIAL OIL EXTRACTED FROM SPOUTED BED DRIED BLACK PEPPER <i>G.K. Jayatunga, B.M.W.P.K. Amarasinghe</i>	

**16<sup>th</sup> December 2023**

**Room 3 (Hybrid)/ Session 03**

**Fire Safety Engineering Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44eIBhWUhsVGVoZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44eIBhWUhsVGVoZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708    Passcode : 182599		
Session Chair 1	Prof. Priyan Mendis	Session Coordinator 1	Mr. Dilan Danushka
Session Chair 2	Dr. Pasindu Weerasinghe	Session Coordinator 2	Mr. J A I D Viduranga
<b>Time</b>	<b>Paper ID</b>	<b>Facilitator</b>	<b>Title</b>
14.15 - 14.30 hrs	Key lecture 01	Dr. Pasindu Weerasinghe	Introduction to SFPE Sri Lanka
14.30 - 14.50 hrs	Key lecture 02	Prof. Priyan Mendis	MACHINE LEARNING BASED FRAMEWORK FOR PREDICTING THE FIRE-INDUCED SPALLING IN CONCRETE TUNNEL LININGS
14.50 - 15.05 hrs	ICSBE_287	HIDDEN DANGERS OF FIRE SAFETY IN MODULAR CONSTRUCTIONS <i>R.L.P. Godakandage, K. T. Q. Nguyen, T.G.P.L Weerasinghe1, J.C.P.H. Gamage</i>	
15.05 - 15.20 hrs	ICSBE_36	REVIEW OF FIRE RESCUE RESOURCES AND PUBLIC AWARENESS ON THE FIRE SAFETY OF HIGH-RISE BUILDINGS IN SRI LANKA <i>THTN Premanath, KMC Konthesingha, IR Upasiri, HMSC Rathnasiri, WPHP Weerasinghe, THTN Premanath, KMC Konthesingha, IR Upasiri, HMSC Rathnasiri, WPHP Weerasinghe</i>	
15.20 - 15.35 hrs	ICSBE_284	INVESTIGATE THE THERMAL RESPONSE OF DIFFERENT INSTALLATION FORMS OF GLASS PANELS UNDER FIRE LOADING: A NUMERICAL APPROACH <i>R. G. S. S. Perera, J. H. A Ruwanmali, T. Thevega, J. A. S. C. Jayasinghe</i>	
15.35- 15.50 hrs	ICSBE_400	ACTIVE AND PASSIVE FIRE SAFETY SIMULATION FOR OFFICE BUILDINGS <i>R.A.D.M.Kahatapitiya, W. J. B. S. Fernando, Priyan Mendis</i>	
15.50- 16.05 hrs	ICSBE_296	FIRE PERFORMANCE OF POLYMER IN COMPOSITE MATERIALS FOR BUILDING CLADDINGS: A NUMERICAL APPROACH <i>T. Thevega, J. A. S. C. Jayasinghe, D. Robert, C. S. Bandara, E. Kandare, S. Setunge</i>	

**16<sup>th</sup> December 2023**

**Room 3 (Hybrid)/ Session 04**

**An Investigation of the Applicability of the Biomimicry Concept for  
DRR and Social Enterprises**

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVvZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVvZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708 Passcode : 182599		
Session Chair 1	Dr. Nuwan Dias	Session Coordinator 1	Mr. Dilan Danushka
Session Chair 2	Dr. Chethika Abeynayake	Session Coordinator 2	Mr. J A I D Viduranga
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
16.35 - 16.40 hrs	Welcome address	Prof. Ranjith Dissanayake	
16.40 - 16.55 hrs	Keynote	Prof. Janaka Ruwanpura	
16.55 - 17.10 hrs	Key Lecture 01	Dr. Kinkini Hemechandra	
17.10 - 17.25 hrs	Key Lecture 02	Dr. Nuwan Dias	
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
17.25 - 17.40 hrs	ICSBE_403	AN INVESTIGATION OF THE APPLICABILITY OF BIOMIMICRY CONCEPTS IN SOCIAL ENTERPRISES' (ES) RESILIENCE <i>G.R.S.D. Gamage, K. Hemachandra, P.B.R. Dissanayake, D. Amaratunga, R. Haigh</i>	
17.40 - 17.55 hrs	ICSBE_404	REVIEW OF NATURE INSPIRED SOLUTIONS FOR DISASTER RISK REDUCTION <i>Panchali Dias . Nuwan Dias . Ranjith Dissanayake</i>	
17.55 - 18.10 hrs	ICSBE_170	A NATURE-INSPIRED SOLUTION FOR ENHANCED IMPACT RESISTANCE OF STRUCTURES <i>H.M.T. Sajana, P.L.N. Fernando</i>	
18.10 - 18.50 hrs	Panel Discussion 01	Moderate: Dr. Nuwan Dias/ Dr. Chethika Abeynayake Panellists: Prof. Sarath Kotagama Prof. Janaka Ruwanpura Dr, Nimal Wijenayake	
18.50 – 18.55 hrs	Closing Note	Dr. Nuwan Dias	

**16<sup>th</sup> December 2023**

**Room 6 (Hybrid)/ Session 01**

**Construction Management Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09">https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09</a>		
	Meeting ID: 972 4114 8173 Passcode: 123782		
Session Chair 1	Prof. Ajith Dolage	Session Coordinator 1	Ms. Sajani Kolombage
Session Chair 2	Dr. Kamal Karunananda	Session Coordinator 2	Ms. Vishmi Gunathunga
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.00 – 09.15 hrs	ICSBE_151	STRATEGIES TO OVERCOME COMMUNICATION DEFICIENCIES IN MANAGEMENT CONTRACTS IN SRI LANKAN CONSTRUCTION INDUSTRY <i>M. Dinujanth, I.S. Gamage, B.C.T.M. Karunaratne</i>	
09.15 – 09.30 hrs	<del>ICSBE_157</del> dag	EFFECT OF CURRENT ECONOMIC CRISIS ON CONSTRUCTION CONTRACTORS IN SRI LANKA: AN EXPLORATORY STUDY ON SMALL-SCALE CONTRACTORS <i>M. T. D. Perera, K. A. N. Gunarathna, B.C.T.M. Karunaratne</i>	
09.30 – 09.45 hrs	ICSBE_244	CONSTRUCTION CONTRACTUAL ISSUES AND PROSPECTS APPLYING OF ALTERNATIVE DISPUTE RESOLUTIONS IN SRI LANKA <i>HN Hikkaduwa</i>	
09.45 – 10.00 hrs	ICSBE_17	STRATEGIC ASSET MANAGEMENT FRAMEWORK FOR CENTRAL ENGINEERING CONSULTANCY BUREAU (CECB) <i>B. H. J. Bulathsinhala, K. K. K. Sylva</i>	

**16<sup>th</sup> December 2023**

**Room 6 (Hybrid)/ Session 02**

**Construction Management Session**

Join Zoom Meeting

<https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWIBQT09>

Meeting ID: 972 4114 8173 Passcode: 123782

Session Chair 1	Dr. Lasitha Rathnayake	Session Coordinator 1	Ms. Sajani Kolombage
Session Chair 2	Dr. Chathurani Chandrasiri	Session Coordinator 2	Ms. Vishmi Gunathunga
Time	Paper ID	Title	
11.30 - 11.45 hrs	ICSBE_347	UNLEASHING POTENTIAL WITH GLASS WASTE IN MASONRY <i>O.M. Hasaranga, C. Jayasinghe, K.P.I.E. Ariyaratne</i>	
11.45 - 12.00 hrs	ICSBE_342	THE INTEGRATION OF CIRCULAR ECONOMY PRINCIPLES WITH BIM-ENABLED MATERIAL PASSPORTS FOR SUSTAINABLE CONSTRUCTION <i>J.M.P.M. Jayawardane, I.H.N. Chathuranga, C.S.A. Siriwardana, Wajiha Shahzad</i>	
12.00- 12.15 hrs	ICSBE_277	DEVELOPMENT OF A CRACK SEVERITY-BASED DAMAGE ASSESSMENT MATRIX FOR MASONRY BUILDINGS <i>Wickramathilake G G T D, Jayasinghe C, Ariyaratne I E</i>	
12.15- 12.30 hrs	ICSBE_227	WHAT DEMOTIVATES HOMEOWNERS TO RETROFIT THEIR HOUSES: A SYSTEMATIC REVIEW <i>C, Panakaduwa, S,P, Coates, M, Munir</i>	
12.30 - 12.45 hrs	ICSBE_348	BEST PRACTICES OF OFF-SITE MANUFACTURING: LESSONS FROM AUSTRALIAN PREFAB MANUFACTURERS <i>J. Jayawardana, J. A. S. C. Jayasinghe, A. K. Kulatunga, M. Sandanayake, G. Zhang</i>	
12.45 - 1.00 hrs	ICSBE_276	ASSESSING THE READINESS FOR DIGITAL TECHNOLOGIES ADOPTION FOR ENHANCING PRODUCTIVITY IN THE SRI LANKAN CONSTRUCTION INDUSTRY <i>I.H.N. Chathuranga, C.S.A. Siriwardana, I.E. Ariyaratne</i>	

**16<sup>th</sup> December 2023**

**Room 6 (Hybrid)/ Session 03**

**Construction Management Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWlBQT09">https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWlBQT09</a>		
	Meeting ID: 972 4114 8173 Passcode :123782		
Session Chair 1	Dr. Chathuranganee Jayakody	Session Coordinator 1	Ms. Sajani Kolombage
Session Chair 2	Dr. Sahan Bandara	Session Coordinator 2	Ms. Vishmi Gunathunga
Time	Paper ID	Title	
14.15 - 14.30 hrs	ICSBE_187	HIDDEN ASPECTS OF PUBLIC OPEN SPACES WHEN MAKING CITIES SUSTAINABLE <i>R.R.J.C Jayakody</i>	
14.30 - 14.45 hrs	ICSBE_74	IMPACTS OF URBAN SPRAWL ON WETLAND LAND COVER DYNAMICS: A SPATIAL AND TEMPORAL ANALYSIS FOR THE CASE OF COLOMBO <i>Christeen S.K.P, Jayasooriya V.M</i>	
14.45 - 15.00 hrs	ICSBE_133	FLEXIBILITY TO INCORPORATE CIRCULAR ECONOMIC PRACTICES WITHIN BUILT ENVIRONMENT PROCUREMENT CONTRACTS IN SRI LANKA <i>R. R. M. M. K. Wadugodapitiya, K. K. K. Sylva, S. M. Dissanayake</i>	
15.00 - 15.15 hrs	ICSBE_168	NEW WORK STRATEGIES TO OVERCOME THE IMPACT OF UNFORSEEN DISRUPTIVE EVENTS FOR CONSTRUCTION CONSULTANTS <i>S Hettiarachchi, C Allis, Y.K Delpachitra</i>	
15.15 - 15.30 hrs	ICSBE_225	A STUDY ON THE MISSED OPPORTUNITIES THROUGH THE SRI LANKAN CONSTRUCTION INDUSTRY TOWARDS A SUSTAINABLE ECONOMIC GROWTH <i>WDBJ Jeewananda, SD Jayasooriya</i>	
15.30- 15.45 hrs	ICSBE_113	ECONOMIC AND ENVIRONMENTAL FEASIBILITY OF PRECAST CONCRETE WALLING SYSTEMS IN MULTI-STORY BUILDING CONSTRUCTION – A LIFE CYCLE PERSPECTIVE <i>B. Rathnayake, C. Jayasinghe, P. Perera</i>	
15.45- 16.00 hrs	ICSBE_158	A BIM-BASED ROAD MAP TO IMPLEMENT LEAN CONSTRUCTION PRINCIPLES TO MINIMIZE WASTE IN CONSTRUCTION PROJECT <i>M.G.D.M.Y. Wickramasinghe, H. Bandara, U.S. Perera, R.M.K. Sandama</i>	
16.00 – 16.15 hrs	ICSBE_109	AWARENESS AND PERCEPTION OF QUANTITY SURVEYORS TOWARD THE SMART CONSTRUCTION CONCEPTS <i>R. S. V. Rajapaksha, K. Devapriya, M. L. S. S. Fernando</i>	

**16<sup>th</sup> December 2023**

**Room 5 (Physical)/ Session 01**

**Sustainable Transport Session**

Session Chair 1	Dr. Tissa Liyanage	Session Coordinator 1	Mr. Kumudu Prabodya
Session Chair 2	Dr. Ganga Samarasekara	Session Coordinator 2	Mr. H A S Malshan
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	<b>Title</b>
09.00 – 09.20 hrs	Key Lecture 01	Dr. Thissa Liyanage	EFFECTIVE USE OF EXISTING TRANSPORT ASSETS AND MANAGING IMPROVED TRANSPORT SYSTEMS TO REGAIN THE ECONOMIC SUSTAINABILITY FOR SRI LANKA
09.20 – 09.40 hrs	Key Lecture 02	Dr. Ganga Samarasekara	REGIONAL TRENDS OF CYCLING IN SRI LANKA
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.40 – 09.55 hrs	ICSBE_324	USE OF GEOSYNTHETICS FOR SUSTAINABLE, ECONOMICAL, AND DURABLE ROAD PAVEMENT STRUCTURES <i>C. Gallage, K. Wimalasena , A. Pathirana</i>	
09.55 – 10.10 hrs	ICSBE_285	A PRICING POLICY FOR VEHICLES AND FUEL FOR SRI LANKA <i>L.S.M. Silva, A.S. Kumarage, M. Mavin De Silva</i>	
10.10 – 10.25 hrs	ICSBE_288	COMPARATIVE ANALYSIS OF THE EFFECT OF CIRCULAR AND HORSESHOE UNDERGROUND TUNNEL SHAPES ON THE REQUIRED SUPPORT PRESSURE IN THE GENERAL GEOLOGICAL CONTEXT OF KANDY CITY <i>M.A.K.V Warnakulasooriya, B. Fernando</i>	
10.25 – 10.40 hrs	ICSBE_289	SRI LANKAN VEHICULAR EMISSION ANALYSIS USING BIG DATA <i>Avishka Lakshan, Amal S. Kumarage, M. Mavin De Silva</i>	
10.40 – 10.55 hrs	ICSBE_270	DEVELOPMENT OF THE TRANSPORTATION SUSTAINABILITY TRADING SYSTEM FOR ROAD CONSTRUCTION PROJECTS IN SRI LANKA <i>C.N.J Samaranyake1*, G.N Samarasekara, K.M.C Konthesingha, W.M.N.R Weerakoon, R.S.M Samarasekara1, R. Dissanayake</i>	
10.55 – 11.10 hrs	ICSBE_406	CELLULAR AUTOMATA MODELING APPROACH TO FORECAST LAND USE CHANGES IN KATUNAYAKE AIRPORT CITY <i>K.D. Herath, P.C.P. De Silva , P.K.S. Mahanama</i>	

**16<sup>th</sup> December 2023**

**Room 5 (Physical)/ Session 02**

**Artificial Intelligence for Sustainable Development: Challenges and Opportunities**

Session Chair 1	Prof. Janaka Ekanayake	Session Coordinator 1	Mr. Kumudu Prabodya
Session Chair 2	Prof. Roshan Godaliyadda	Session Coordinator 2	Mr. H A S Malshan
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
14.15- 14.30 hrs	Key Lecture 01	Prof. Roshan Godaliyadda	
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.30 – 14.45 hrs	ICSBE_286	TRANSFORMING HOUSING RETROFIT: THE POTENTIAL IMPACT OF ARTIFICIAL INTELLIGENCE <i>C, Panakaduwa, S,P, Coates, M, Munir</i>	
14.45 - 15.00 hrs	ICSBE_260	ENHANCING THE FLOOD MODELING ACCURACY UNDER VARYING SPATIAL SCALE FINER RESOLUTION WEATHER DATA <i>Susantha Wanniarachchi, Ranjan Sarukkalige</i>	
15.00 - 15.15 hrs	ICSBE_205	DEVELOPING A MATHEMATICAL MODEL AND MOBILE APP FOR GREENHOUSE MONITORING AND CONTROL USING SENSOR INTEGRATION <i>M.T.U.D.Mallikarathne, A.M.H.M.Abeysinghe, A.P. Wijayawantha</i>	
15.15 - 15.30 hrs	Panel discussion	Prof. Janaka Ekanayake (Moderator)	
		Prof. Roshan Godaliyadda	



**16<sup>th</sup> December 2023**

**Room 7 (Physical)/ Session 01**

**Sustainable Construction and Green Building Techniques**

Session Chair 1	Prof. Chintha Jayasinghe	Session Coordinator 1	Ms. Isuri Sewwandi
		Session Coordinator 2	Ms. Sadeepa Gamage
Time	Paper ID	Title	
09.00 - 09.15 hrs	ICSBE_38	DEVELOPMENT OF GEOPOLYMER PASTE USING BOTTOM ASH AND POTASSIUM HYDROXIDE AS THE PRIMARY POLYMERIZATION MATERIALS <i>G.G.R.N. Ranasinghe, K.M.C. Konthesingha, A. Branavan, I.R. Upasiri, P.M.W.P. Kumara</i>	
09.15 - 09.30 hrs	ICSBE_54	INVESTIGATING SUBSTRATE AMENDMENTS OF EXTENSIVE GREEN ROOFS FOR WATER SENSITIVE URBAN DESIGN <i>B.P.S.A. Premachandra, S. Himanujahn, B.C.L. Athapattu</i>	
09.30 - 09.45 hrs	ICSBE_57	MITIGATING URBAN HEAT ISLAND USING COOL PAVEMENT STRATEGY: A CASE STUDY IN COLOMBO, SRI LANKA <i>D.M.A.M.S.R. Andradi, S. Himanujahn, R.A.K.K. Perera, B.C.L. Athapattu</i>	
09.45 - 10.00 hrs	ICSBE_68	CIRCULAR ECONOMIC APPLICATIONS IN SRI LANKAN ROAD CONSTRUCTION INDUSTRY <i>A.M.U.D.Palukadawala, S. M. Dissanayaka</i>	
10.00 -10.15 hrs	ICSBE_70	BIO-CEMENTATION OF DEMOLITION WASTES AND RECYCLED AGGREGATES FOR SUSTAINABLE PRODUCTION OF PAVING BLOCKS <i>H. N. Muhanna, R. K. M. Niras, U. N. C. Prasadini, S. Gowthaman, T. H. K. Nawarathna, M. Chen, S. Kawasaki</i>	
10.15 -10.30 hrs	ICSBE_91	FLEXURAL RESPONSE OF CEMENT MORTAR WITH ELECTRICAL CABLE WASTE <i>K.D.Y.G. Perera, Y.L.F. Ahamed, H.M.C.C. Somarathna</i>	
10.30 -10.45 hrs	ICSBE_199	OPTIMIZING SOLAR ENERGY HARVESTING THROUGH AI BASED DUAL-AXIS SOLAR TRACKING SYSTEM WITH REMOTE MONITORING <i>M.T.U.D. Mallikarathne, A.M.H.M. Abeyasinghe, W.P.Madhushani Perera G.A.H.K.M. Gamlath</i>	

**16<sup>th</sup> December 2023**

**Room 7 (Physical)/ Session 02**

**Sustainable Construction and Green Building Techniques**

Session Chair 1	Prof. Chaminda Bandara	Session Coordinator 1	Ms. Isuri Sewwandi
Session Chair 2	Dr. Supun Jayasinghe	Session Coordinator 2	Ms. Sadeepa Gamage
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
11.30 - 11.45 hrs	ICSBE_93	MANUFACTURING SUSTAINABLE PAVING BLOCKS USING POLYMER MODIFIED BIO-CEMENTATION <i>N.M. Mustak, H.R.H. Haseeb, R.M.P. Madushanka, A.M.G.G.G. Thilakarathna, T.H.K. Nawarathna, S. Gowthaman</i>	
11.45 - 12.00 hrs	ICSBE_96	A STUDY ON ENHANCING AIR QUALITY AND THERMAL COMFORT USING NATURAL VENTILATION IN A LARGE AUDITORIUM <i>L. K. Gurusinghe, J. S. Manawasinghe, P. B. Boyagoda</i>	
12.00- 12.15 hrs	ICSBE_143	FLEXURAL BEHAVIOUR OF REINFORCED RUBBERIZED CONCRETE BEAM <i>A.P.I Jayanath, J.C.P.H Gamage, E.R.K Chandrathilakae</i>	
12.15- 12.30 hrs	ICSBE_153	FRAMEWORK TO DECIDE ON THE APPROPRIATENESS OF RECYCLED CONCRETE AGGREGATES AS A CONSTRUCTION MATERIAL IN DIFFERENT CONSTRUCTION PROJECTS IN SRI LANKA: WITH AN INSIGHT OF THE COST BENEFIT ANALYSIS <i>A. M. M. Hiranya, T. Wijesinghe, B. K. C. Perera</i>	
12.30 12.50 hrs	ICSBE_407	SUSTAINABLE CONSTRUCTION WITH HEMP – TOWARDS NET ZERO 2050 <i>Chathushika Ekanayake, Priyan Mendis, Shiromal Fernando, Massoud Sofi</i>	

**16<sup>th</sup> December 2023**

**Room 7 (Physical)/ Session 03**

**Sustainable Construction and Green Building Techniques**

Session Chair 1	Dr. Samith Buddhika	Session Coordinator 1	Ms. Isuri Sewwandi
Session Chair 2	Dr. Kamal Karunananda	Session Coordinator 2	Ms. Sadeepa Gamage
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.15 - 14.30 hrs	ICSBE_154	IMPACT ON LARGE-SCALE BUILDERS OF THE CONSTRUCTION INDUSTRY IN SRI LANKA IN THE FACE OF THE CURRENT ECONOMIC CRISIS <i>K. U. Ranjith, K. A. N. Gunarathna, J.U. Kumarathunga</i>	
14.30 - 14.45 hrs	ICSBE_245	A STUDY ON THE SENSE OF COMMUNITY AND BEHAVIOUR PATTERNS OF INHABITANTS IN NUGEGODA COMMERCIAL STREETS <i>M.A.G. Medonza, M.G.P. Manelgama, J. Wijewardana</i>	
14.45 - 15.00 hrs	ICSBE_354	MECHANICAL PROPERTIES OF GREEN CONCRETE CONTAINING POLYPROPYLENE PLASTIC WASTE <i>T. Abirami, K. G. D. I. H. Thilakarathna, W. A. R. U. Weragama, C. S. Bandara, H. D. Yapa, P. B. R. Dissanayake</i>	
15.00 - 15.15 hrs	ICSBE_345	RESETTLEMENT STRATEGIES AND SUSTAINABLE DEVELOPMENT: A CASE STUDY OF THE MORAGOLLA HYDROPOWER PROJECT <i>N. W. Bulathge, C K S Handagama, E M T K Ekanayake</i>	
15.15 - 15.30 hrs	ICSBE_265	HIGHWAY SOLARISATION IN SRI LANKA: A GIS-BASED EVALUATION OF SOLAR ENERGY POTENTIAL ON THE SOUTHERN EXPRESSWAY <i>W.M.S.S. Dias, W.B.M.R.S. Basnayaka</i>	
15.30- 15.45 hrs	ICSBE_214	EFFECT OF THE FLEXURAL STRENGTH ON FINGER-JOINTED WOOD WITH 25mm FINGER LENGTH AND 19 mm FINGER LENGTH <i>C.K. Muthumala, K.D.A. Abeysekara, P.L.A.G. Alwis, Sudhira de Silva , K.K.I.U. Arunakumara</i>	
15.45 – 16.00 hrs	ICSBE_71	A COMPARATIVE STUDY OF THE GOLDEN RATIO AND THE BUDDHIST ARCHITECTURAL PROPORTIONS IN SRI LANKAN RITUAL SPACE <i>C Abeywardana, C Palliyaguru, P Rathnayaka</i>	

**16<sup>th</sup> December 2023**

**Room 7 (Physical)/ Session 03**

**Sustainable Construction and Green Building Techniques**

Session Chair 1	Dr. Chandana Siriwaradana	Session Coordinator 1	Ms. Isuri Sewwandi
Session Chair 2	Dr. Damith Mohotti	Session Coordinator 2	Ms. Sadeepa Gamage
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
16.35 - 16.50 hrs	ICSBE_164	ASSESSMENT OF THERMAL COMFORT LEVELS IN TYPICAL SCHOOL BUILDINGS IN THE SOUTHEASTERN REGION OF SRI LANKA <i>M.N. Nifal, A.M.M. Zeeras, J.A. Thamboo, A.M.A. Saja</i>	
16.50 - 17.05 hrs	ICSBE_188	INVESTIGATION OF PROPERTIES OF CONCRETE RELEVANT TO EARLY-AGE THERMAL CRACKING <i>R.M.S.S. Karunaratna, S.M.A. Nanayakkara</i>	
17.05 - 17.20 hrs	ICSBE_202	KITHUL WOOD REBARS FOR LIGHTLY LOADED ONE-WAY SLABS <i>H.L.I.D. Premathilake, I.S.K. Wijayawardane</i>	
17.20 - 17.35 hrs	ICSBE_235	BALANCING APPROACH BETWEEN CONSTRUCTION INDUSTRY AND ENVIRONMENTAL PROTECTION <i>KNKR Kodithuwakku</i>	
17.35 - 17.50 hrs	ICSBE_210	STRUCTURAL FEASIBILITY OF PRECAST FIBER-REINFORCED LIGHTWEIGHT CONCRETE WALL PANELS <i>S.B.M. Subasinghe, I.S.K. Wijayawardane</i>	

**16<sup>th</sup> December 2023**

**Room 4 (Online)/ Session 01**

**Coastal Engineering Session**

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode : 979488		
Session Chair 1	Mr. Daham Dias	Session Coordinator 1	Mr. Anjana Indunil
Session Chair 2	Dr. Balasubramaniam Janarthanan	Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.00 – 09.15 hrs	ICSBE_101	EXTREME WAVE ANALYSIS WITHIN A CONFINED HARBOR BASIN: A CASE STUDY OF COLOMBO PORT <i>D. P. C. Laknath, I.G.I. K. Kumara, S.S.D.S Gunasekara</i>	
09.15 – 09.30 hrs	ICSBE_102	NUMERICAL MODELLING OF COASTAL PROCESSES FOR ENHANCED NAVIGATION THROUGH NATURALLY FORMED SUBMERGED REEFS <i>D. P. C. Laknath, I.L. Abeygoonasekara, D.E.N. Senarathne, K.K.P.P. Ranaweera</i>	
09.30 – 09.45 hrs	ICSBE_106	HARBOUR DEVELOPMENT IN BALAPITIYA: INSIGHTS FROM NUMERICAL MODELING OF COASTAL PROCESSES <i>D. P. C. Laknath, D.E.N. Senarathne, I.L. Abeygoonasekara, K.K.P.P. Ranaweera</i>	
09.45 – 10.00 hrs	ICSBE_196	CHANGE DETECTION FROM 2017-2022 OF MANGROVE AREA AROUND THAMPALAGAMAM BAY AND ESTIMATION OF CARBON DIOXIDE ABSORPTION OF MANGROVES IN A SELECTED AREA USING GIS AND REMOTE SENSING TECHNIQUES. <i>Jeyapalu Jathushan, V.P.A. Weerasinghe</i>	
10.00 – 10.15 hrs	ICSBE_259	BASIN RESONANCE STUDY FOR COLOMBO SOUTH HARBOR THROUGH LONG-WAVE STUDIES FOR ENHANCED PORT OPERATIONS <i>D. P. C. Laknath, I.G.I. K. Kumara, S.S.D.S Gunasekara</i>	

**16<sup>th</sup> December 2023**

**Room 4 (Online)/ Session 02**

**Climate Change Session**

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode :979488		
Session Chair 1	Dr. H. K. B. S. Chamara	Session Coordinator 1	Mr. Anjana Indunil
Session Chair 2	Dr. Danushika Manathunga	Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
11.30 - 11.45 hrs	ICSBE_75	SPATIO-TEMPORAL ANALYSIS OF MODIS-BASED LAND SURFACE TEMPERATURE USING GOOGLE EARTH ENGINE (GEE) IN AMPARA DISTRICT <i>Nuskiya, M.H.F., Zahir, I.L.M., Mohamed Thariq, M.G, Sunethra Thennakoon, Iyoob, A.L, Ameer, M.L.F.</i>	
11.45 - 12.00 hrs	ICSBE_194	ESTIMATION OF ANNUAL ENERGY PRODUCTION AND DEVICE PARAMETER OPTIMISATION IN SRI LANKAN WAVE CLIMATIC CONDITIONS <i>B.H.B.P.D. Baddegamage , R.L.K. Lokuliyana , S.D.G.S.P. Gunawardane, Y.H. Lee</i>	
12.00- 12.15 hrs	ICSBE_267	CLIMATE CHANGE AND PADDY CULTIVATION OF SRI LANKA <i>P.K Hitige, L.Y Hitige</i>	
12.15 - 12.30 hrs	ICSBE_33	ANALYSIS OF THE IMPACT OF THE CLIMATE CHANGE ON STORM SURGES AND GLOBAL EXTREME EVENTS IN THE 21 <sup>st</sup> CENTURY <i>B. Premaratne, F. Inam</i>	

**16<sup>th</sup> December 2023**

**Room 4 (Online)/ Session 03**

**Sustainable Construction and Green Building Techniques**

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode: 979488		
Session Chair 1	Ms. K. A. G. G. K. Kumarasinghe	Session Coordinator 1	Mr. Anjana Indunil
Session Chair 2	Ms. Kamani Sylva	Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.00 - 14.15 hrs	ICSBE_85	EFFICACY OF GREEN BUILDING RATING SYSTEMS TO PROTECT BIODIVERSITY OF SRI LANKA <i>S.U. Navimanager, S.N.C.M Dias, S. Manawadu</i>	
14.15 - 14.30 hrs	ICSBE_103	EFFECT OF ENERGY DEMAND AND THERMAL COMFORT OF LOW INCOME HOUSES; CASE OF MONARAGALA DISTRICT <i>KSKNJ Kudasinghe, H Munasinghe</i>	
14.30 - 14.45 hrs	ICSBE_116	LIFE CYCLE COST ANALYSIS OF GREEN BUILDING PROJECTS IN SRI LANKA <i>CV Rajasekara, DVH Dodangoda, WN Kawmudi</i>	
14.45 - 15.00 hrs	ICSBE_144	DEVELOPMENT OF A NOVEL WASTE BASED INSULATED PLASTER WITH WATER PROOFING ABILITY FOR ROOF SLABS <i>D.D. Weerakkody, J.C.P.H. Gamage, E. R. K. Chandrathilaka, Kajanan Selvaranjan</i>	
15.00 - 15.15 hrs	ICSBE_211	EFFECTIVENESS OF IMPLEMENTING SUSTAINABLE PUBLIC PROCUREMENT (SPP) PRACTICES IN THE SRI LANKAN CONSTRUCTION INDUSTRY <i>E. M. P. G. A Ekanayake, C Jayasinghe, K. P. H Perera, K. V. J. P Ekanayake</i>	
15.15 - 15.30 hrs	ICSBE_231	STUDY ON THE EFFECT OF JOINT THICKNESS ON COMPRESSIVE STRENGTH OF BLOCK MASONRY WALLS CONSTRUCTED WITH MANUFACTURED SAND MORTAR <i>P.L.L.T.D. Alwis, D. Nanayakkara</i>	
15.30 - 15.45 hrs	ICSBE_343	THE EXPRESSION OF HOME AND ITS ARCHITECTURAL MANIFESTATION IN THE SRI LANKAN CONTEXT <i>D.M.C.S.Pieris, J Wijesundara</i>	

16.00 – 16.30 hrs	Tea Break		
Session Chair 1	Dr. Shyanaka Dhananjaya Rathnayake	Session Coordinator 1	Mr. Anjana Indunil
Session Chair 2	Dr. Chamila Gunasekara	Session Coordinator 2	Mr. J A R Kavinda
16.00 - 16.15 hrs	ICSBE_167	FRAGMENTATION ANALYSIS OF PERI-URBAN NATURAL ECOSYSTEM; THE CASE OF BAHIRAWAKANDA TERRAIN, KANDY, SRI LANKA. <i>K.Y.M.Sirimewan , J.H.Dharmasena</i>	
16.15-16.30 hrs	ICSBE_264	UTILIZING MODULARIZATION TO ACHIEVE SUSTAINABLE CONSTRUCTION <i>P.T.P. Jayathunga, B. Edirisooriya, P.C.O. Fernando, N. Herath, K.K. Jayasinghe</i>	
16.40-16.55 hrs	ICSBE_15	TOWARDS SUSTAINABLE BUILDINGS: A REVIEW ON BUILDING MATERIAL SELECTION <i>S. V. Gurupatham, C. Jayasinghe, P. Perera, R. Lepakshi</i>	
16.55 - 17.10 hrs	ICSBE_34	CLIMATE SMART ROOFING MATERIALS AND TECHNOLOGIES IN SRI LANKAN CONSTRUCTION INDUSTRY: SPECIAL ATTENTION TO EASTERN PROVINCE <i>R. Sathurshan, K.B.A. Silva</i>	
17.10 - 17.25 hrs	ICSBE_272	ANALYSING THE DAYLIGHT DISSEMINATION IN HIGH-RISE INTERIORS: A ZONE-SPECIFIC CASE STUDY AT SAINTGITS <i>C. Punnya Brahmanand, M. Dhanyasree, Sajan Thomas, Joselin Herbert, Jacob Thottathil Varghese, Basil George Thomas, Arjun Venugopal, Siju K</i>	
17.25 - 17.40 hrs	ICSBE_228	EXPLORING URBAN WALKABILITY: AN ASSESSMENT OF SIDEWALKS AND PEDESTRIAN FACILITIES IN PUBLIC TRANSPORT DISTRICTS; IN ACCORDANCE WITH THE GREEN SL® RATING SYSTEM FOR SUSTAINABLE CITIES -THE CASE OF PETTAH, SRI LANKA <i>S.R. Dharmasena, K.D.S. Nimashi</i>	
17.40 - 17.55 hrs	ICSBE_223	SUITABILITY OF PLASTIC MODIFIED ASPHALT CONCRETE (PMAC) IN SRI LANKAN CONTEXT <i>N. M. R. S. P. Nawela, Dr. J. Samaranayake</i>	
17.55 – 18.10 hrs	ICSBE_273	THE CURRENT GROWTH OF GREEN ENERGY AND ITS DEVELOPMENT IN INDIA <i>Er. Aditya Singh</i>	



17<sup>th</sup> December 2023

Room 1 (Hybrid)/ Session 01

Innovations in Building Materials Session

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUic1xK.1</a>		
	Meeting ID: 881 0114 7875 Passcode: 672369		
Session Chair 1	Prof. Chintha Jayasinghe	Session Coordinator 1	Mr. Chamath Pigera
Session Chair 2	Dr. P. B. G. Dissanayake	Session Coordinator 2	Mr. Hashan Thilakarathna
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
09.00 - 09.05 hrs	Introduction to keynote Lecturer	Session Chair 01	
09.05 - 09.25 hrs	Keynote Lecture	Prof. Chintha Jayasinghe	
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.25 – 09.40 hrs	ICSBE_229	THE SUCCESS OF SUSTAINABLE MATERIALS IN CREATING SUSTAINABLE BUILT ENVIRONMENT: AN INSIGHT FROM LOCAL CONSTRUCTION PRACTICES <i>G.W.J.K.K. Wijesundara</i>	
09.40 – 09.55 hrs	ICSBE_120	THE USE OF WIRE MESH-FLEXIBLE CEMENTITIOUS POLYMER COMPOSITE FOR STRENGTHENING REINFORCED CONCRETE BEAMS <i>M.A.V.H.M. Arachchi, S.P.R.S. Jayasinghe, H.M.C.C. Somarathna, D. Mohotti</i>	
09.55 – 10.10 hrs	ICSBE_131	SYNERGISTIC EFFECTS OF GRAPHENE OXIDE - SILICA NANOHYBRIDS ON THE PROPERTIES OF CEMENT MORTAR <i>Suganthiny Ganesh, S. V. T. Janaka Perera, Charitha Thambiliyagodage, R. K. N. D. Rajapakse</i>	
10.10 – 10.25 hrs	ICSBE_142	BEHAVIOR OF DAMAGED REINFORCED RUBBERIZED CONCRETE BEAMS STRENGTHEN WITH CARBON FIBER REINFORCED POLYMERS <i>R.K.S. Maleesha, J.C.P.H. Gamage, E.R.K. Chandrathilaka</i>	
10.25 – 10.40 hrs	ICSBE_117	ENHANCEING IMPACT RESISTANCE OF MASONRY STRUCTURES WITH FLEXIBLE CEMENTITIOUS POLYMERS COATINGS <i>T.V. Muthukumarana, P.L.D.C. Liyanage, H.M.C.C. Somarathna, S.N. Raman</i>	
10.40 – 10.55 hrs	ICSBE_241	GYPSUM BOARD REINFORCED WITH PINEAPPLE LEAF FIBER <i>T.P. Jagoda, K.M.C. Konthesingha, S.M.A. Nanayakkara, P.M.W.P. Kumara, H.M.S.C. Rathnasiri, I.R. Upasiri, W.P.H.P. Weerasinghe, A. Branavan</i>	
10.55 – 11.10 hrs	ICSBE_119	FEASIBILITY OF USING PALMYRA STRIPS AS REINFORCING MATERIAL IN LIGHTLY LOADED CONCRETE BEAMS <i>R.C. Dissanayake, S. Lusiyashtharsikka, H.M.C.C. Somarathna, B. Kiriparan</i>	

**17<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 02**

**Bridge Design Construction and Maintenance  
(Organized by the IABMAS Sri Lanka Group)**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1</a>	
	Meeting ID: 881 0114 7875 Passcode: 672369	
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>
11.30 - 11.40 hrs	Welcome Address	Prof. Ranjith Dissanayake
11.40 – 11.45 hrs	Introduce Keynote 01 Speaker	
11.45 – 12.10 hrs	Keynote 01	Prof. Mitsuyoshi Akiyama
12.10 – 12.15 hrs	Introduce Keynote 02 Speaker	
12.15 – 12.40 hrs	Keynote 02	Prof. Upul Attanayake
12.40 – 12.50 hrs	Vote of Thanks	Prof. Chaminda Bandara

**17<sup>th</sup> December 2023**

**Room 1 (Hybrid)/ Session 03**

**Bridge Design Construction and Maintenance  
(Organized by the IABMAS Sri Lanka Group)**

Join Zoom Meeting	<a href="https://us06web.zoom.us/j/88101147875?pwd=S2qhrM0Aa40PR7tH3UoxOZUic1xK.1">https://us06web.zoom.us/j/88101147875?pwd=S2qhrM0Aa40PR7tH3UoxOZUic1xK.1</a>		
	Meeting ID: 881 0114 7875 Passcode: 672369		
Session Chair 1	Prof. Chaminda Bandara	Session Coordinator 1	Mr. Chamath Pigera
Session Chair 2	Dr. Dammika Abeykoon	Session Coordinator 2	Mr. Hashan Thilakarathna
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.15 - 14.30 hrs	IABMAS_73	ROTATIONAL FLEXIBILITY OF DOUBLE-ANGLE RIVETED BRIDGE CONNECTIONS <i>B Imam, N Burud, M K Chryssanthopoulos</i>	
14.30 - 14.45 hrs	IABMAS_182	LOAD TESTING AND RATING OF A PC BRIDGE WITHOUT STRUCTURAL PLANS <i>C. Hutchinson, A. Peiris, I. Harik</i>	
14.45 - 15.00 hrs	IABMAS_148	POSTTENSION MODELLING TECHNIQUES FOR A TIE GIRDER OF A NETWORK TIED ARCH BRIDGE <i>B. M. K. L. K. Basnayake, U. B. Attanayake</i>	
15.00 - 15.15 hrs	IABMAS_191	DEVELOPMENT OF EARTHQUAKE RESISTANT DESIGN GUIDELINES FOR BRIDGES IN SRI LANKA <i>M.A.C. Kumara, C.S. Lewangamage</i>	
15.15 - 15.30 hrs	IABMAS_247	A COMPARATIVE STUDY ON APPROACHES TO ESTIMATE LATERAL DISTORTIONAL BUCKLING STRENGTH IN STEEL-CONCRETE COMPOSITE BEAMS <i>W. M. A. D. Wijethunge, A. J. Dammika, C. S. Bandara, J. A. S. C. Jayasinghe</i>	
15.30- 15.45 hrs	IABMAS_257	FINITE ELEMENT MODELLING OF DUCTILE FRACTURE BEHAVIOUR OF THICK-WALLED STEEL HOLLOW BOX PIERS UNDER LATERAL CYCLIC LOADINGS <i>A. C. D. Pigeera, M. Jenothan, J. A. S. C. Jayasinghe, C. S. Bandara, A. J. Dammika</i>	
15.45- 16.00 hrs	IABMAS_132	EVALUATION OF THE DEGREE OF UNCERTAINTY IN ASSESSING DETERIORATED PC I-BEAM END CAPACITY <i>S. K. Bhowmik, Y. Hu1, U. B. Attanayake</i>	
16.00 - 16.15 hrs	IABMAS_134	ULTIMATE LOAD CAPACITY OF SUSPENSION BRIDGE AT MALIBADA, SRI LANKA <i>R.C.S. Jinadasa, P.A.K. Karunananda</i>	
16.15 - 16.30 hrs	IABMAS_135	ADDRESSING SUSTAINABILITY THROUGH INNOVATIVE MIX DESIGNS AND IMPLEMENTATION OF ACCELERATED BRIDGE CONSTRUCTION TECHNIQUES <i>B. M. K. L. K. Basnayake, U. B. Attanayake, M. LaViolette, P. Pakala4, R. Goniwiecha</i>	

16.15 - 16.30 hrs	IABMAS_362	ENGINEERED CEMENTITIOUS COMPOSITE BEAMS IN IMPACT DAMAGE MITIGATION FOR BRIDGE PIERS <i>Kasun Wijesooriya, Shiyao Zhu, Sanket Rawat, Chi-King Lee, Damith Mohotti</i>
16.30-16.45 hrs	IABMAS_361	EXPERIMENTAL INVESTIGATION OF DYNAMIC BEHAVIOR OF PRESTRESSED CONCRETE BRIDGE GIRDERS <i>G.B. Dissanayake, A.J Dammika, C.S. Bandara, J.A.S.C Jayasinghe, P.B.R. Dissanayake</i>

**17<sup>th</sup> December 2023**

**Room 2 (Hybrid)/ Session 01**

**Water Pollution and Water Treatment Technologies Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09">https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09</a>		
	Meeting ID: 971 4465 7867 Passcode :816212		
Session Chair 1	Prof. Ayantha Gomes	Session Coordinator 1	Mr. Ravindra Ekanayake
Session Chair 2	Dr. Lahiru Lindamulla	Session Coordinator 2	Mr. Ravindu Udara
Time	Paper ID	Title	
09.00 - 09.15 hrs	ICSBE_86	SIMULTANEOUS ELECTROCOAGULATION AND ELECTROCHEMICAL OXIDATION FOR REMOVING NATURAL ORGANIC MATERIALS FROM WATER <i>B. U. Kaushalya, P. V. Kahawearachchi, H. G. S. S. U. Priyankara, K. G. N. Nanayakkara</i>	
09.15 - 09.30 hrs	ICSBE_110	MODELLING SIMULATION OF ELECTROCHEMICAL CELLS FOR WATER TREATMENT <i>H.G.S.S.U. Priyankara, T.R.E.A.H.D. Rajapaksha, K.G.N. Nanayakkara</i>	
09.30 - 09.45 hrs	ICSBE_262	ULTRASONIC MODIFICATION OF ADSORBENTS FOR ENHANCEMENT OF THE PERFORMANCE IN DYE REMOVAL FROM AQUEOUS SOLUTION <i>L.K.K.N. Perera, K.H.M. Kuruwita, B.M.W.P.K. Amarasinghe</i>	
09.45 - 10.00 hrs	ICSBE_185	CASE STUDIES OVER THE FAILURE OF ONSITE SEWERAGE TREATMENT SYSTEMS IN SRI LANKA <i>U.G. Amarawickrama, T.D. Denagama</i>	
10.00 - 10.15 hrs	ICSBE_221	A REVIEW OF IMPACTS OF OCEAN ACIDIFICATION ON CORAL REEFS <i>P.M.M. Nilusha, M. Danthurebandara, C. S. Kalpage</i>	
10.15- 10.30 hrs	ICSBE_239	HEALTH QUALITY ASSESSMENT OF THE BEERALLA STREAM IN ELLA WITH RESPECT TO THE SELECTED PHYSICO-CHEMICAL AND BIOLOGICAL FACTORS IN WATER: AN ASSESSMENT OF THE EFFECTS OF UNSUSTAINABLE TOURISM PRACTICES <i>R. M. A. Dilini, J. Manatunge, G.G.N. Thushari, S.M. Gnanasingha</i>	
10.30- 10.45 hrs	ICSBE_21	USE OF BULKING AGENTS FOR COMPOSTING SECONDARY SEWAGE SLUDGE FROM WASTEWATER TREATMENT PLANTS; A REVIEW <i>S.V. Chandeepea, C.S. Kalpage</i>	

**17<sup>th</sup> December 2023**

**Room 2 (Hybrid)/ Session 02**

**Water Resources Planning and Pollution Control Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09">https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09</a>		
	Meeting ID: 971 4465 7867 Passcode 816212		
Session Chair 1	Dr. G. M. P. R. Weerakoon	Session Coordinator 1	Mr. Ravindra Ekanayake
Session Chair 2	Dr. Chandima Gunawardana	Session Coordinator 2	Mr. Ravindu Udara
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
11.30 - 11.45 hrs	ICSBE_01	A STUDY ON GARBAGE ACCUMULATION IN MAHAWELI RIVER, NEAR POLGOLLA RESERVOIR T.D. Denagama, D.E. Liyanage	
11.45 - 12.00 hrs	ICSBE_40	IMPROVED OPERATION OF MINIPE LEFT BANK CANAL IRRIGATION SYSTEM <i>S. Ranwala, U.H.M.S. Silva, K.D.W. Nandalal</i>	
12.00- 12.15 hrs	ICSBE_55	ASSESSING THE STRUCTURAL STRENGTH OF FABRICATED BURNT CLAY ECO-BRICKS WITH RICE HUSK ASH AND ALUM SLUDGE	
12.15- 12.30 hrs	ICSBE_128	A CASE STUDY ON THE QUALITY ASSURANCE AND CONTROLLING PRACTICES IN THE WATER SUPPLY PROJECTS OF THE NATIONAL WATER SUPPLY AND DRAINAGE BOARD SRI LANKA (NWSDB-SL). <i>Jathursan S, Gobidan N.N</i>	
12.30 - 12.45 hrs	ICSBE_203	ENHANCING FISH HEALTH, WATER QUALITY, AND ENVIRONMENTAL RESPONSIBILITY WITH AN INTEGRATED AQUAPONIC APPROACH TO REVERSE OSMOSIS (RO) REJECT WATER MANAGEMENT <i>W.P.Madhushani Perera, M.T.U.D. Mallikarathne, G.A.H.K.M. GamlathI, A.M.H.M. Abeyasinghe</i>	
12.45 - 13.00 hrs	ICSBE_224	OPTIMIZING PHYSICS PARAMETERS FOR HEAVY RAINFALL FORECASTING IN THE KELANI RIVER BASIN USING THE WRF MODEL <i>P.L.L.N. Perera, N.G.P.B. Neluwala, J.J.Wijetunge</i>	

17<sup>th</sup> December 2023

Room 2 (Hybrid)/ Session 03

Water Resources Planning and Pollution Control Session

Join Zoom Meeting	<a href="https://zoom.us/j/97144657867?pwd=dm5vZzI4c3BLRVB2bXc2QmV1MHhEZz09">https://zoom.us/j/97144657867?pwd=dm5vZzI4c3BLRVB2bXc2QmV1MHhEZz09</a>		
	Meeting ID: 971 4465 7867 Passcode: 816212		
Session Chair 1	Prof. S. B. Weerakoon	Session Coordinator 1	Mr. Ravindra Ekanayake
Session Chair 2	Prof. Shameen Jinadasa	Session Coordinator 2	Mr. Ravindu Udara
Time	Paper ID	Title	
14.15 - 14.30 hrs	ICSBE_108	SCALE EFFECT ON RAINFALL-RUNOFF MODELING IN UPPER KELANI RIVER BASIN, SRI LANKA <i>M.K.D.K.C. Madapatha, W.A.I. Madhawa, M.M.G.T. De Silva</i>	
14.30 - 14.45 hrs	ICSBE_111	WATER QUALITY MODELLING AND IMPROVEMENT OF WATER SAFETY OF RAMBAKAN OYA RESERVOIR CATCHMENT IN MAHA OYA IRRIGATION DIVISION <i>Y.M Saifudeen, A.J.F Mazeera, A.C.A Suja</i>	
14.45 - 15.00 hrs	ICSBE_118	DYNAMIC BEHAVIOR OF SALINITY INTRUSION IN KELANI RIVER, SRI LANKA <i>V.D. Athuraliya, N.G.P.B. Neluwala, K.P.P.Pathirana</i>	
15.00 - 15.15 hrs	ICSBE_121	ORGANIC MEMBRANE FILTERS FOR TEXTILE WASTEWATER TREATMENT: A REVIEW <i>R.P.D.D. Senarathne, C.S. Kalpage</i>	
15.15 - 15.30 hrs	ICSBE_123	DETECTION OF MICROPLASTICS FROM DOMESTIC LAUNDERING USING ATTENUATED TOTAL REFLECTANCE – FOURIER TRANSFORM INFRARED (ATR-FTIR) SPECTROSCOPY <i>Vigneswaran Nitharshan, Sajani Kolambage, Tharanja Gobal Krishnan, Aravinda Nirella, Nimantha Jayanaka, Pradeep Gajanayake, Rohan S. Dassanayake,</i>	
15.30- 15.45 hrs	ICSBE_126	ACCURACY OF CURVE NUMBER METHOD IN ESTIMATING RAINFALL-RUNOFF RELATIONSHIP FOR SUGARCANE LAND USE UNDER TROPICAL CLIMATE IN SRI LANKA: A COMPARATIVE STUDY OF MEASURED AND COMPUTED DATA <i>L. M. J. R. Wijayawardhana, K. D. N. Weerasinghe and C. M. Navaratne</i>	
15.45- 16.00 hrs	ICSBE_95	ASSESSMENT OF THE BEHAVIOUR OF FLOW PATTERNS WITH THE PRESENCE OF R PUMP HOUSE, RAISING OF FLOOD BUNDS USING 2D HYDRAULIC NUMERICAL MODELING <i>S.M.Hewavidana, K. Subasinghe</i>	
16.00 – 16.15 hrs	ICSBE_355	MODELLING STORM WATER MANAGEMENT SYSTEMS IN RESPONSE TO DIFFERENT RAINFALL AND LAND USE PATTERNS <i>Pramudika W.O.H, Ubhayaratna K.M.M, Gunawardana W.C.T.K.</i>	

17<sup>th</sup> December 2023

Room 3 (Hybrid)/ Session 01

CAS Special Session : Advancements in Eco-Environmental Sciences and Water Treatment: A Multidisciplinary Approach (JRDC Session)

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVoZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44e1BhWUhsVGVoZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708 Passcode: 182599		
Session chair 1	Prof. Rohan Weerasooriya	Session Coordinator 1	Mr. Dilan Danushka
Session chair 1	Prof. Yuansong Wei	Session Coordinator 2	Mr. J A I D Viduranga
Time	Description	Facilitator	Title
9.00 – 9.20 hrs	Keynote	Prof. Yuansong Wei	Resilience of anammox application from sidestream to mainstream: a combined system coupling denitrification, partial nitrification and partial denitrification with anammox
Time	Paper ID	Title	
09.20 – 09.35 hrs	ICSBE_370	DETECTION OF CRYPTOSPORIDIUM AND CORONAVIRUS IN INFLUENT AND EFFLUENT WATER IN SELECTED WATER TREATMENT PLANTS ALONG THE MAHAWELI RIVER IN KANDY DISTRICT <i>P.T.A. Thilakarathna, S. Athukorala, F. Fareed, R.N. Jinadasa, T.N. Premachandra, M. Makehelwela<sup>3</sup>, B.R. Fernando<sup>1</sup>, S.K. Weragoda, Yawei Wang, Zhang Yu, Min Yang and S.H.P.P. Karunaratne</i>	
09.35 -09.50 hrs	ICSBE_371	DIVERSITY AND ANTIBIOTIC RESISTANCE OF HETEROTROPHIC BACTERIA IN DRINKING WATER: A STUDY ALONG THE MAHAWELI RIVER WATER TREATMENT PLANTS FROM KOTAGALA TO BALAGOLLA <i>P.T.A. Thilakarathna, S. Athukorala, F. Fareed, R.N. Jinadasa, T.N. Premachandra, M. Makehelwela, B.R. Fernando, S.K. Weragoda, Yawei Wang, Zhang Yu, Min Yang and S.H.P.P. Karunaratne</i>	
09.50 – 10.05 hrs	ICSBE_372	EXPERIENCES OF CHINESE ECO-INDUSTRIAL PARK DEVELOPMENT <i>Jingru Liu</i>	
10.05 – 10.20 hrs	ICSBE_373	EFFECTS OF DRINKING WATER FLUORIDE AND HARDNESS ON BOVINE SERUM BIOCHEMICAL PROPERTIES IN HIGH CKDU PREVALENCE AREAS IN SRI LANKA UNDER ONE HEALTH APPROACH <i>H.M.S.Wasana, G.D.R.K.Perera, I.A.M.P. Ileperuma, H.T.K. Abeyesundara<sup>6</sup> L. Jayarathne, Youngsong Wei</i>	
10.20 – 10.35 hrs	ICSBE_374	OPTIMIZATION STRATEGY OF GRAVITY-DRIVEN MEMBRANE FILTRATION BASED ON MICROBIAL RISK CONTROL IN PERMEATE <i>Qingke Yuan, Hao Zhao, Yanfeng Liu, Ying Meng, Fubo Luan</i>	



10.35 - 10. 50 hrs	ICSBE_375	FLUORESCENCE CHARACTERISTICS OF DISSOLVED ORGANIC MATTER IN GROUNDWATER AND SURFACE WATER IN TANK CASCADE SYSTEMS IN THE DRYZONE OF, SRI LANKA <i>S. Indika, Y.S. We, D.Z. Hu, I. Yapabandara, S. Athauda,, T. Cooray, M. Makehelwala, K.B.S.N. Jinadasa, S.K. Weragoda R. Weerasooriya</i>
10.50 - 11.05 hrs	ICSBE_376	IMPACT OF ORGANIC FERTILIZER RATIOS ON MICROBIAL COMMUNITIES IN AGRICULTURAL RUNOFF: A FIELD SIMULATION STUDY <i>WANG Jinshi, HOU Yaojun, WANG Zhirong, WANG Yawei, WEI Yuansong</i>
<b>Tea Break</b>		
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>
11.30 - 11.40 hrs	ICSBE_377	TEMPORAL AND SPATIAL DYNAMICS OF WATER QUALITY PARAMETERS IN BEIRA LAKE: SEASONAL VARIATIONS AND ECOLOGICAL IMPLICATIONS <i>Sangeeth Prasad, Yuansong Wei, Tushara Chaminda, Tharindu Ritigala, Suresh Indika, Isuru Yapa, Sujithra.K. Weragoda, Madhubhashini Makehelwala</i>
11.40 - 11.50 hrs	ICSBE_378	ANALYSIS OF MEMBRANE FOULING CHARACTERISTICS AND CLEANING STRATEGIES OF NANOFILTRATION PLANT WITH DECENTRALIZED WATER SUPPLY FROM RURAL GROUNDWATER SOURCES <i>HU Da-zhou, SURESH-Indika, WEI Yuan-song</i>
11.50 - 12.00 hrs	ICSBE_379	CHARACTERISTICS OF DISSOLVED ORGANIC MATTERS IN THE TREATMENT OF THE DEWATERING LIQUOR OF ANAEROBIC DIGESTION PRETREATED BY THERMAL HYDROLYSIS <i>YUE Wen-hui, LIU Ji-bao, GUO Jian-ning, WEI Yuan-song, SUI Qian-wen</i>
12.00 - 12.10 hrs	ICSBE_380	POWDERED ACTIVATED CARBON-CATALYZED MN(II) REMOVAL BY FREE CHLORINE FOR CONTROLLING DRINKING WATER DISCOLORATION PROBLEMS <i>G. Li, and B. Shi</i>
12.10 - 12.20 hrs	ICSBE_381	INTEGRATION OF SULFAMMOX AND SULFIDE-DRIVEN AUTOTROPHIC DENITRIFICATION (SDAD) PROCESSES IN ANAEROBIC MBR FOR TREATING RUBBER INDUSTRY WASTEWATER WITH HIGH AMMONIA AND SULFATE <i>T.I.P. Wimalaweera, F. Zuo, Q.Tang, K.B.S.N. Jinadasa, S.K. Weragoda, T. Ritigala, R. Weerasooriya, M. Makehelwala , and Y.S. Wei</i>
12.20 - 12.30 hrs	ICSBE_382	INVESTIGATING THE HYDROCHEMICAL COMPOSITIONS AND EVOLUTION OF GROUNDWATER DUE TO THE INFLUENCE OF SEAWATER INTRUSION IN THE MANNAR DISTRICT, SRI LANKA <i>Samadhi Athauda, Yunwen Wang, Zhineng Hao, Suresh Indika, Isuru Yapabandara, Sujithra K. Weragoda, Jingfu Liu and Yuansong Wei</i>
12.30 12.40 hrs	ICSBE_383	FOULING MECHANISMS AND EFFECTIVE CLEANING STRATEGIES FOR ELECTRODIALYSIS DISTILLATION IN BRACKISH GROUNDWATER TREATMENT <i>Malalagama T.P, Binghui Tian, Gunathilake M.D.D.R, Min Yang</i>
12.40 - 12.50 hrs	ICSBE_384	A COMPREHENSIVE STUDY ON APPLICABILITY AND OPTIMIZING DOMESTIC TREATMENT PLANTS FOR GROUNDWATER REVITALIZATION IN THE CKDU-AFFECTED DRY ZONE OF SRI LANKA <i>M.D.D.R. Gunathilake, Y.D. Kahatapitiya, B.K.R.S. Wanshanatha, R.M.C.P. Rathnayaka, T.P. Malalagama, M. Makehelwala, S.K. Weragoda, Binghui Tian</i>
12.40 - 12.50 hrs	ICSBE_104	IMPORTANCE OF STUDY ON BIOFILM CHARACTERIZATION WITHIN WATER DISTRIBUTION NETWORKS <i>E.G.W. Gunawardana, D.R. Gunathilake, C. Ratnayake, K.R.A.D.U. Jeewarathne, M. Makehelwala, S.K. Weragoda, C.D. Gamage, R. Weerasooriya</i>
12.50 – 13.05	ICSBE_385	BARRIERS FOR THE APPLICABILITY OF CIRCULAR ECONOMY CONCEPT FOR SUSTAINABLE WASTE MANAGEMENT IN SRI LANKAN SUGAR MANUFACTURING INDUSTRY <i>P.D. Jayawardhana, D.M.P.P. Dissanayake, P.A.P.Y.Gajaba</i>

**17<sup>th</sup> December 2023**

**Room 3 (Hybrid)/ Session 03**

**Urban Landscape Ecological Planning Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44eIBhWUhsVGVVoZWJ3Zz09">https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44eIBhWUhsVGVVoZWJ3Zz09</a>		
	Meeting ID: 977 1778 5708 Passcode: 182599		
Session chair 1	Prof. Lalitha Dissanayake	Session Coordinator 1	Mr. Dilan Danushka
Session chair 1	Prof. Maros Finka	Session Coordinator 2	Mr. J A I D Viduranga
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	
14.15 - 14.30 hrs	Keynote Lecture 01	Prof. Cristian Loja from the University of Bucharest	
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.30 - 14.45 hrs	ICSBE_280	A COMPARATIVE LIFE CYCLE ASSESSMENT OF E-THEIS AND BOUND THESIS USING THE GATE-TO-GATE APPROACH <i>Y Suwarkka, K Kumareswara, M Atapattu</i>	
14.45 - 15.00 hrs	ICSBE_290	ENHANCING URBAN FLOOD RESILIENCE THROUGH PERVIOUS CONCRETE: INNOVATIVE SOLUTIONS FOR SUSTAINABLE URBAN LANDSCAPING <i>M.N.M Shahmy, D.D Dias and U.B.S Fernando</i>	
15.00 - 15.15 hrs	ICSBE_292	ASSESSING THE IMPACT OF WETLAND CONVERSION TO UNREGULATED URBAN DEVELOPMENT ON FLOOD RISK: A GIS-BASED ANALYSIS OF THE MEDA ELA AND PINGA OYA CATCHMENTS IN KANDY DISTRICT <i>W.M.S.S. Dias, and D.M.L. Dissanayake</i>	
15.15 - 15.30 hrs	ICSBE_299	GREEN IMPRESSIONS: UNDERSTANDING URBAN VEGETATION PERCEPTIONS IN UNESCO HERITAGE CITY KANDY <i>D.M.L. Dissanayake , D.R.P. Godamunna</i>	
15.30 - 15.45 hrs	ICSBE_301	ASSESSING THE LEVEL OF CONNECTIVITY OF THE RIVERSCAPE STRUCTURE: A SPATIAL GRAPH-BASED APPROACH <i>D.D. Weerakkody, J.C.P.H. Gamage, E. R. K. Chandrathilaka, Kajanan Selvaranjan</i>	
15.45 - 16.00 hrs	ICSBE_249	STUDY ON THE CONTRIBUTION OF ART IN ENHANCING THE PLACE ATTACHMENTS IN URBAN CONTEXT <i>R.R Samaratunge, D. De Silva, J. Wijesundara</i>	
16.00 - 16.15 hrs	ICSBE_05	THE ROLE OF COMMUNITY PARTICIPATION IN DISASTER RISK REDUCTION INITIATIVES WITH SPECIAL REFERENCE TO THE BATTICALOA CITY <i>Y. Arthy</i>	

**Tea Break**

16.45 - 17.00 hrs	ICSBE_269	URBAN GOVERNANCE AND POLICY FORMULATION IN URBAN SLUMS AND SHANTY DWELLERS IN SRI LANKA (SPECIAL REFERENCE TO THE 'HAVELOCK' SLUMS IN COLOMBO DISTRICT) <i>H.A.S.U. Geethanjalee, and D.M.Y. Abeywardhana</i>
17.00 - 17.15 hrs	ICSBE_193	THE ROLE OF CULTURAL VALUE IN SUSTAINABLE URBAN DEVELOPMENTS WITH SPECIAL REFERENCE TO THE FLOATING MARKET IN PETTAH <i>R.T.L.S. Rajapaksha , N.L. Rubasin Gamage, H.P. Munasinghe</i>
17.15 - 17.30 hrs	ICSBE_256	MACHINE LEARNING APPROACH FOR MODELING MODE CHOICE DECISIONS OF SRI LANKAN TRAVELLERS <i>W.D Lakmini, I.C.S Jayasena, W.R.S.S Dharmarathna, U. Jayasinghe</i>
17.30 - 17.45 hrs	ICSBE_340	INFLUENCE OF URBAN PARKS ON URBAN THERMAL ENVIRONMENT – A CASE STUDY: INTERMEDIATE ZONE & ARID ZONE IN SRI LANKA <i>W.G.K.D.Jayalath, T.A.N.T.Perera, G.Y.Jayasinghe</i>
17.45 - 18.00 hrs	ICSBE_183	RESUE LEFTOVERS: PERSEPTIONS OF TOURISTS ON ADAPTIVE REUSE OF BUILDINGS AS HOTELS & CAFES <i>K.B Seenapatabendige</i>
18.00 - 18.15 hrs	ICSBE_250	A STUDY ON COMMUNITY HABITS AND LIFESTYLE CHOICES WITH SPECIAL REFERENCE TO NUGEGODA LOCALITY <i>K.A.S. Rathugamage, D. De Silva, J. Wijesundara</i>
18.15 - 18.30 hrs	ICSBE_298	URBAN FOREST ECOSYSTEM SERVICES AND MANAGEMENT: A CASE STUDY OF THE THREE MAIN FOREST PATCHES WITHIN KANDY CITY, SRI LANKA <i>D.M.L. Dissanayake, and G.K.C.R. Kapuge</i>

**17<sup>th</sup> December 2023**

**Room 4 (Online)/ Session 01**

**Water Resource Planning and Pollution Control Session**

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode: 979488		
Session chair 1	Prof. Nadeeshani Nanayakkara	Session Coordinator 1	Mr. Anjana Indunil
Session chair 1	Dr. Sujithra Weragoda	Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.00 – 09.15 hrs	ICSBE_30	WATER MANAGEMENT OF ROTTAI TANK SCHEME IN POTTUVIL IRRIGATION DIVISION <i>YKMRC Yapapatune, DA Ekanayake, PDS Senevirathne I, Eng.S.Tharshika</i>	
09.15 – 09.30 hrs	ICSBE_78	UNRAVELING CLIMATOLOGICAL TRENDS: 40-YEAR ANALYSIS OF LONG-TERM PARAMETERS IN KIGALI, RWANDA <i>N.R. Josiah, D.P.C. Lalnath</i>	
09.30 – 09.45 hrs	ICSBE_344	EFFECT OF IRRIGATION RESERVOIRS ON STREAMFLOW SIMULATION IN DRY ZONE, SRI LANKA <i>Buddhi Suraweera, Kasun De Silva</i>	
09.45- 10.00 hrs	ICSBE_268	AI-BASED MACHINE LEARNING ALGORITHMS FOR WATER QUALITY ANALYSIS: A REVIEW <i>R.M.L.S Rajapaksha, R.P.W.N Karunasiri, T.A.N.T Perera, Kosala Sirisena</i>	
10.00 – 10.15 hrs	ICSBE_349	BIODEGRADABILITY INDEX (BDI) AS AN INDICATOR FOR EFFLUENTS QUALITY MEASUREMENT; A CASE STUDY BASED ON DIFFERENT INDUSTRY SECTORS IN MATARA DISTRICT, SRI LANKA <i>G.R. Diwyanjalee, B.K.A. Bellanthudawa, D.K.N.S. De Silva, A.R. Gunawardana</i>	

17<sup>th</sup> December 2023

Room 4 (Online)/ Session 02

Geotechnical Engineering Session

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode : 979488		
Session chair 1	Dr. Rasika Athapaththu	Session Coordinator 1	Mr. Anjana Indunil
		Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
11.30 - 11.45 hrs	ICSBE_13	INVESTIGATION OF GEOTECHNICAL PROPERTIES OF EXPANSIVE SOIL STABILIZED WITH FLY ASH AND QUARRY DUST <i>T.B.C.H. Dissanayake, D. de S. Udakara</i>	
11.45 - 12.00 hrs	ICSBE_44	STABILITY ANALYSIS OF ROAD EMBANKMENT CONSTRUCTED BY TREATING MARGINAL SOILS WITH GEOPOLYMER BASED STABILIZERS <i>Tharshsany, S. Shagiththiya, M.C.M Nasvi , J. Sangeetha</i>	
12.00 - 12.15 hrs	ICSBE_112	PREDICTION OF COLLAPSE POTENTIAL OF SOILS USING ARTIFICIAL NEURAL NETWORK <i>A.K.B.J. Aththanagoda, L.C. Kurukulasuriya</i>	
12.15 - 12.30 hrs	ICSBE_127	COMPARISON OF IN-SITU STATE OF A TAILINGS DEPOSIT WITH RECONSTITUTED LABORATORY SPECIMEN STATES <i>PGN Nayanthara, C Gallage, SSSD Biyanvilage, J Rajapakse, T Rowles, E Tuplin</i>	
12.30 - 12.45 hrs	ICSBE_346	REVIEW OF RELIABILITY EVALUATION OF CROSS-HOLE SONIC LOGGING FOR BORED PILE INTEGRITY <i>Y.A. Naotunna, N.H. Priyankara, D.M.K.N. Seneviratna</i>	
12.45 - 13.00 hrs	ICSBE_19	ANALYSIS OF THE SHEAR BEHAVIOR OF STABILIZED SOIL- CONCRETE INTERFACE IN GEOTECHNICAL STRUCTURES <i>W.A.W. Wijesingha, K.H.S.M. Sampath</i>	
13.00 - 13.15 hrs	ICSBE_06	THE DRIEST END OF THE SOIL WATER CHARACTERISTICS CURVE (SWCC) WAS DEVELOPED FOR DIFFERENT SOIL DEPTHS USING WP4C <i>K.K.A, Shanika, Y.N.S. Wijewardana, H.M.S.K, Herath, L.W. Galagedara</i>	
13.15 - 13.30 hrs	ICSBE_321	INVESTIGATION OF FOUNDATION PROTECTION MORTAR LAYER WITH ABILITY TO WITHSTAND THE BEHAVIOR OF FINE GRAIN SOIL <i>J.A.S.M Jayasinghe, U.B.S Fernando</i>	

**17<sup>th</sup> December 2023**

**Room 4 (Online)/ Session 03**

**Sustainable Solutions Session**

Join Zoom Meeting	<a href="https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09">https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZIN6Zz09</a>		
	Meeting ID: 985 6117 5011 Passcode : 979488		
Session chair 1	Prof. Senani Wijewardana	Session Coordinator 1	Mr. Anjana Indunil
Session chair 1	Dr. Udayagee Kumarasinghe	Session Coordinator 2	Mr. J A R Kavinda
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
14.15 - 14.30 hrs	ICSBE_322	SPATIAL DISTRIBUTION OF METEOROLOGICAL DROUGHTS IN THE MADURU OYA BASIN IN THE DRY ZONE OF SRI LANKA: IMPLICATIONS OF CLIMATE CHANGE <i>W.M.R.T.Y. Wijekoon, R.L.H.L. Rajapakse</i>	
14.30 - 14.45 hrs	ICSBE_196	CHANGE DETECTION FROM 2017-2022 OF MANGROVE AREA AROUND THAMPALAGAM BAY AND ESTIMATION OF CARBON DIOXIDE ABSORPTION OF MANGROVES IN A SELECTED AREA USING GIS AND REMOTE SENSING TECHNIQUES <i>Jeyapalu Jathushan, and V.P.A. Weerasinghe</i>	
14.45 - 15.00 hrs	ICSBE_149	THROUGH THE SHADOWS: AN IN-DEPTH STUDY OF INFORMAL WASTE COLLECTORS' PLIGHT AMIDST COVID-19 IN SRI LANKA <i>N. Fernando, Y.M.M De Silva</i>	
15.00 - 15.15 hrs	ICSBE_41	A REVIEW: DEVELOPMENT TECHNIQUES FOR MUNICIPAL OPEN DUMPSITE IN DEVELOPING COUNTRIES <i>K.G.S. Rukshan and Y.N.S. Wijewardana</i>	
15.15 - 15.30 hrs	ICSBE_261	LONG SHORT-TERM MEMORY (LSTM) & FEEDFORWARD ARTIFICIAL NEURAL NETWORK (ANN) FOR FLOOD PREDICTION <i>G.W.T.I. Madhushanka, M.T.R. Jayasinghe, R.A. Rajapakse</i>	

**17<sup>th</sup> December 2023**

**Room 5 (Physical)/ Session 01**

**Geotechnical Engineering Session**

Session chair 1	Dr. Chandana Kurukulasuriya	Session Coordinator 1	Mr. Kumudu Prabodya
Session chair 1	Dr. S. K. Navaratnarajah	Session Coordinator 2	Mr. H A S Malshan
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.00 - 09.15 hrs	ICSBE_42	ASSESSMENT OF SHEAR STRENGTH PROPERTIES OF DREDGED SAND <i>P.L. Punchihewa, R.J.K.B.C. Ranathunga, A.M.R.G. Athapaththu</i>	
09.15 - 09.30 hrs	ICSBE_130	USE OF FIELD MONITORING DATA AND THE FINITE ELEMENT ANALYSIS IN THE OPTIMIZATION OF DEEP EXCAVATION SUPPORT SYSTEMS: A CASE STUDY <i>V.S.S.D. Silva, and L.I.N. de Silva</i>	
09.30 - 09.45 hrs	ICSBE_16	STRENGTH, SWELL AND COST BASED MIX OPTIMIZATION OF CEMENT AND FLY ASH TREATED EXPANSIVE SOILS <i>A.M.S.N. Abeyasinghe, L.C. Kurukulasuriya, M.C.M. Nasvi</i>	
09.45 - 10.00 hrs	ICSBE_360	REVIEW OF LOAD SHARING MECHANISM OF PILED-RAFT FOUNDATION <i>D.A.P.Prasad, and N.H.Priyankara</i>	
10.00 - 10.15 hrs	ICSBE_255	EFFECT OF GRID UNDER SLEEPER PAD ON SHEAR RESISTANCE AT SLEEPER-BALLAST INTERFACE <i>H. G. S. Mayuranga, S. K. Navaratnarajah, C. S. Bandara and J. A. S. C. Jayasinghe</i>	

17<sup>th</sup> December 2023

Room 5 (Physical)/ Session 02

Sustainable Solutions Session

Session chair 1	Dr. Pradeep Gajanayake	Session Coordinator 1	Mr. Kumudu Prabodya
Session chair 1	Prof. C. S. Kalpage	Session Coordinator 2	Mr. H A S Malshan
Time	Paper ID	Title	
11.30 - 11.45 hrs	ICSBE_80	OPTIMIZATION AND SCALE-UP OF PREPARING BATTERY-GRADE GRAPHITE FROM SRI LANKAN VEIN GRAPHITE FOR RECHARGEABLE LITHIUM-ION BATTERIES <i>H.M.H.D.K. Naranpanawa, T.H.N.G. Amaraweera, N.W.B. Balasooriya, K.W.S.N. Kumari, H.W.M.A.C. Wijayasinghe</i>	
11.45 - 12.00 hrs	ICSBE_89	ELECTROCHEMICAL PERFORMANCE OF CuO ANODE MATERIAL SYNTHESIZED BY CHEMICAL PRECIPITATION METHOD FOR RECHARGABLE LITHIUM-ION BATTERIES <i>W. T. R. S. Fernando, T. H. N. G. Amaraweera, H. W. M. A. C. Wijayasinghe</i>	
12.00 - 12.15 hrs	ICSBE_146	BIO CHAR DERIVED FROM WASTE BIOMASS SOURCES AS A FILLER FOR NATURAL RUBBER: A REVIEW <i>M.G.D. Sanduranga, R.D.H. Iresha, and C.S. Kalpage</i>	
12.15 - 12.30 hrs	ICSBE_274	DEVELOPMENT OF UV PROTECTIVE COATINGS TO RETAIN THE COLOR OF GARMENTS USING INORGANIC UV ABSORBERS <i>D.P.Lokuwithana, and L.Palliyaguru</i>	
12.30 - 12.45 hrs	ICSBE_252	DETERMINING THE PRECISE PHYSICAL PROPERTIES OF RUBBER AGGREGATE DERIVED FROM DISCARDED TIRES <i>B.G.V. Sanjaya, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara, S. Venkatesan, R.J. Gravina</i>	
12.45 - 13.00 hrs	ICSBE_357	EXPLORING PERCEPTIONS OF SERVICE DELIVERY IN A LOCAL MUNICIPALITY IN SOUTH AFRICA <i>E.S. Ngcobo, C. Gerwel Proches , N. Singh</i>	
13.00 – 13.15 hrs	ICSBE_359	STRENGTHENING TSUNAMI PREPAREDNESS IN SRI LANKA: AN ASSESSMENT OF THE ACTION PLAN OF TSUNAMI READY RECOGNITION PROGRAMME <i>K.K.C.L. Kannangara, C.S.A. Siriwardana, C. Liyanarachchige</i>	
13.15 – 13.30 hrs	ICSBE_39	DURABILITY OF ORDINARY CONCRETE MADE OF MANUFACTURED SAND AND OFFSHORE SAND <i>M.G.S. Asangi, K.M.C. Konthesingha, A. Branavan, I.R. Upasiri, W.P.H.P. Weerasinghe, H.M.S.C. Rathnasiri, P.M.W.P. Kumara</i>	



**17<sup>th</sup> December 2023**

**Room 6 (Hybrid)/ Session 01**

**Circular Economy Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09">https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09</a>		
	Meeting ID: 972 4114 8173 Passcode: 123782		
Session chair 1	Prof. Ajith De Alwis	Session Coordinator 1	Ms. Sajani Kolambage
Session chair 2	Dr. Mayuri Wijayasundara	Session Coordinator 2	Ms. Vishmi Gunathunga
Session chair 3	Ms. Anjulee Boralessa		
<b>Time</b>	<b>Description</b>	<b>Facilitator</b>	<b>Title</b>
09.00 – 09.20 hrs	Key Lecture 01	Dr. Ajith De Alwis	Net Zero and circularity - Actioning with Accountability
09.20 – 09.40 hrs	Key Lecture 02	Dr. Mayuri Wijayasundara	Net Zero and circularity - Role of circular economy in decarbonization
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
09.40 – 09.55 hrs	ICSBE_09	EXPLORING CIRCULAR ECONOMY OPPORTUNITIES IN THE BUILT ENVIRONMENT: INSIGHTS FROM CASE STUDY ANALYSIS <i>Olivia Ho, Usha Iyer-Raniga, Kamani Sylva, Mahanama Dissanayaka</i>	
09.55 – 10.10 hrs	ICSBE_22	SUSTAINABLE CONSTRUCTION OF TRANSPORT CONNECTIVITY AND ASSET MANAGEMENT PROJECT, SRI LANKA <i>W.M.S.N. Weerasekara, K.K.K. Sylva, S.M. Dissanayaka</i>	
10.10 – 10.25 hrs	ICSBE_62	GHG EMISSIONLESS OPEN DUMPSITE: A CIRCULAR ECONOMY APPROACH <i>S. Himanujahn, W.A.K.S. Fonseka, D.H.P. Kaushalya, M.B.T.D. De Silva, R.A.K.K. Perera, M. Vithanage, B.C.L. Athapattu</i>	
10.25 – 10.40 hrs	ICSBE_278	PRIORITIZING GREEN HUMAN RESOURCE MANAGEMENT PRACTICES TOWARDS ACHIEVING ORGANIZATIONAL SUSTAINABILITY FROM EXPERTS' PERSPECTIVES: A CONCEPTUAL PAPER <i>Mafruha Hossain, and Mohammad Thoufiqul Islam</i>	
10.40 – 10.55 hrs	ICSBE_47	A STUDY ON ADAPTATIONS OF CIRCULAR ECONOMIC CONCEPTS IN CONSTRUCTION INDUSTRY OF SRI LANKA <i>J.M.D.S.D. Jayamanna, S.N.C.M Dias, T.D. Denagama</i>	

**17<sup>th</sup> December 2023**

**Room 6 (Hybrid)/ Session 02**

**Circular Economy Session**

Join Zoom Meeting	<a href="https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09">https://zoom.us/j/97241148173?pwd=WGpPY2dXRlZ4RURJWFVhRW5rUWIBQT09</a>		
	Meeting ID: 972 4114 8173 Passcode : 123782		
Session chair 1	Prof. Ajith De Alwis	Session Coordinator 1	Ms. Sajani Kolambage
Session chair 2	Dr. Mayuri Wijayasundara	Session Coordinator 2	Ms. Vishmi Gunathunga
Session chair 3	Ms. Anjulee Boralessa		
<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	
11.45 - 12.00 hrs	ICSBE_18	RESOURCE MANAGEMENT IN IRRIGATION PROJECTS OF SRI LANKA USING PRINCIPLES OF CIRCULAR ECONOMY <i>K.A.G.G.K. Kumarasinghe, and K. K. K. Sylva</i>	
12.00- 12.15 hrs	ICSBE_136	APPLICATION OF CIRCULAR ECONOMIC CONCEPTS AT CONSTRUCTION WASTE MANAGEMENT (COWAM) PROJECT, DADALLA, SRI LANKA <i>B M M I Balasooriya and, K K K Sylva</i>	
12.15- 12.30 hrs	ICSBE_266	MANAGEMENT OF E-WASTE IN URBAN SRI LANKAN HOUSEHOLDS <i>A. S. M. Musharraf, G. P. Jayasiri</i>	
12.30 - 12.45 hrs	ICSBE_138	TRANSITIONS TO PAPERLESS GOVERNMENT OFFICES: AN ANALYSIS OF CHALLENGES AND RECOMMENDATIONS FOR SUPPORTING THE GREEN ECONOMY <i>Tilak De Silva</i>	