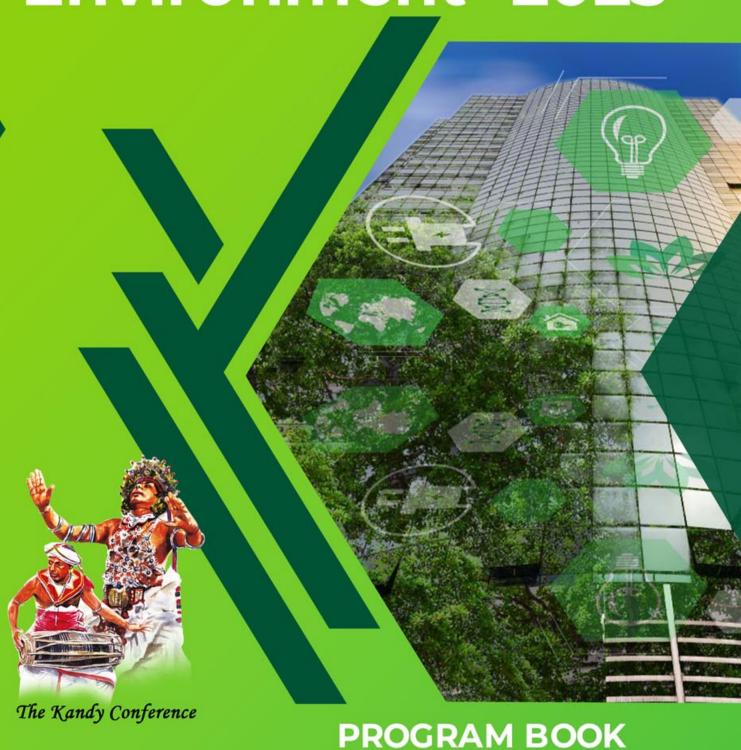


The 14th International Conference on

Sustainable Built Environment -2023



The 14th International Conference on Sustainable Built Environment (ICSBE) 2023

Vision

To drive innovative research for tomorrow's development

Mission

To meet colleagues, experts and friends in the field and to exchange ideas and those About research development work, concepts and practical ideas in structural,

Construction and management

PREFACE

It is with great pleasure that we present the proceedings of the 14th International Conference on Sustainable Built Environment (ICSBE) 2023. This is the fourteenth consecutively organized conference following a series of international conferences since 2010, keeping its tradition of adhering to engineering excellence. Taking a step forward from the last thirteen events, the coverage of specialty areas in this conference has been diversified. This book contains the abstracts of research work from many different sub-specialties. We expect that all these abstracts will be presented at parallel sessions from 16th to 17th December 2023. We would like to express our appreciation to all keynote speakers for their valuable contributions to the development of a sustainable world. We are also very grateful to the authors for contributing research papers of high quality. The abstracts in this proceeding book have been reviewed by a panel of academic and professional experts who have vast expertise in their respective fields. The enormous work carried out by these reviewers is gratefully appreciated as well. We are also pleased to acknowledge the advice and assistance provided by the members of the local and international advisory committee and members of the co-chairs committee along with many others who volunteered to assist to make this very significant event a success. Furthermore, we acknowledge the financial sponsorship provided by many organizations that have been extremely supportive of the success of this international conference. It is the earnest wish of the editors that this proceeding book would be used by the research community and practicing engineers/scientists who are directly or indirectly involved in studies related to sustainable built environments.

Editors

Prof. Ranjith Dissanayake Dr. Pradeep Gajanayake

A MESSAGE FROM THE VICE-CHANCELOR, UNIVERSITY OF PERADENIYA

I am delighted to share a message marking the 14th International Conference on Sustainable Built Environment (ICSBE) 2023.

I commend the Conference for maintaining consistently high academic standards throughout its history. Over the past 14 years, it has provided an exceptional platform for engineers, scientists, and researchers to showcase advancements in research and development, as well as the practical application of new tools and technologies.

In line with its established legacy, the Conference is expanding its focus by embracing new areas, particularly technical and industrial collaborations. The technical sessions of the Conference, centered around the theme "Building Sustainable Nations," directly align with the university's current developmental plans. The University has initiated an ambitious plan aiming for significant advancements in all aspects by its centenary year in 2042. Central to these developmental plans is our dedication to sustainability, aligning with the specific goals outlined by the United Nations. I am confident that participants from the university will utilize the insights from the conference to refine and adapt our developmental strategies accordingly.

I extend my heartfelt congratulations to the organizing committee of ICSBE -2023 and convey my sincere wishes for a successful, impactful, and inspiring conference.

Thank you.

Prof. M. D. Lamawansa Vice Chancellor University of Peradeniya

MESSAGE FROM THE CONFERENCE CO-CHAIRS

It is a pleasure for us to welcome all the participants to the 14th International Conference on Sustainable Built Environment (ICSBE) 2023 in Kandy, Sri Lanka. We, the co-chairs would gratefully like to mention the previous successful conference, which was held for thirteen consecutive years in Kandy, Sri Lanka. The theme selected for the conference Sustainable Built Environment is extremely relevant to today's world. With the vision of promoting innovative and sustainable research for tomorrow's development. We organize this conference as a meeting place of talents, knowledge, and dedication. Therefore, we trust that the conference will produce great ideas from a variety of research and exchange the knowledge of experts, colleagues, and friends who are working for the world's sustainable development. The conference focuses on the different sub-topics in the sustainable built environment: such as sustainable construction, sustainable infrastructure development & planning, urban green infrastructure & planning, sustainable cities and villages, waste & wastewater management for enhanced sustainability, advanced water & wastewater technology, rainwater harvesting, water conservation, solar energy, bio-energy, wind, and hydro-power energy, alternative clean energy, green advanced computations communication, green energy economics, policy, financing & business practice, sustainable materials, material flows & industrial ecology, high-performance concrete, remove, recycle, repair of materials, building automation, indoor environmental quality, indoor plants, impacts of climate change, climate change & reducing greenhouse emissions, carbon footprint, impacts of sustainable bio-fuel, social impact & human behavior, climate risk management & mitigation, global climate model and landscaping. The best-selected papers will be published in Springer Nature as lecture notes in civil engineering. Other full papers (which are presented at the conference) are published as conference proceedings with ISSN number. The host city of the conference, Kandy, is a world heritage city famous for its unique architecture, culture, nature, beauty, and climate. We hope that you will enjoy your time in Kandy during the conference. We, the conference co-chairs express our sincere thanks to our guests, keynote speakers, authors, members of the international advisory committee, members of the editorial committee, sponsors, and many others who volunteered to assist to make this very significant event a success.

Prof. Ranjith Dissanayke

Prof. Priyan Mendis

Prof. Chintha Jayasinghe

Prof. Sudhira De Silva

Prof. Upul Attanayake

Prof. Chaminda Konthesingha

Prof. D. A. R. Dolage

Dr. Aiith Thambo

Dr. Balasubramaniam Janarathnan

Eng. Shiromal Fernando

MESSAGE FROM THE CHIEF GUEST

Dear friends and colleagues,

It is an honor and a privilege for me to pen this brief message, as the Chief Guest, on the occasion of the 14th International Conference of The Sustainable Built Environment, although this year's theme is much more - on the multi-disciplinarity of sustainability.

First, I wish to congratulate the organizing committee ably led by Professor Ranjith Dissanayake for 'sustaining' this 'Kandy Conference' for over 14 years, which is no mean task by any measure. As an academic who has worked in all five continents as a clinician, teacher, and an executive Dean, I am well aware of the energy and the unremitting tenacity required for maintaining the vigor of such a conference series.

The theme of this year's conference is multi-disciplinarity of sustainable development, and is built on the 17 sustainable Millennium Development Goals (SDGs) set in 2000, that were formally adopted by all 193 member states of the UN in September 2015, aiming at ending extreme poverty, protecting the planet and ensuring prosperity for all by 2030 (UN, 2015). The SDGs expanded the agenda to include issues such as climate change, sustainable consumption, but also quality education requiring all countries to take action including those with high levels of development.

The goal of education for sustainable development (UN, 2015, p. 21) entails that `that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, education for sustainable development and sustainable lifestyles, human rights, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and its contribution to sustainable development.

I am proud to say as a Sri Lankan we have embraced this ethos of quality education for a very long period and what's more with virtually free provision of quality education to all, despite being a developing nation, still facing many hurdles. This is exemplified by our 17 universities and the global diaspora of graduates in varying professions. Incidentally I hope many of you who are here today will have the opportunity to visit one of the most beautiful campuses in the world, a few miles away – our University.

of Peradeniya Campus, built in 1942, along the lines of Cambridge University, UK, and adorned by the undulating Mahaweli river.

Although Sir Lanka and many other jurisdictions have some way to go before achieving the foregoing erudite goals 'of education for sustainable development' conferences such as these help nurture the ethos and popularise these goals, particularly when held under the auspices of a tertiary education institute.

In closing this short message, I wish you all a wondaful and a productive conference with many networking opportunities, whilst at the same time enjoying the breath-taking vistas and cuisine Sri Lanka has to offer.

Prof. Lakshman Samaranayake

Professor Emeritus and Immediate-Past Dean, Faculty of Dentistry University of Hong Kong, Hong Kong

Room 1 (Hybrid)/ Session 01

Tall Building Session

	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1		Aa40PR7tH3UoxOZUiic1xK.1
Join Zoom Meeting	Meeting ID: 881 0114	4 7875 Passcode: 672369	
Session Chair 1	Prof. Priyan Mendis	Session Coordinator 1 Mr. Chamath Pigera	
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
Time	Paper ID	Title	
09.45 – 10.00 hrs	ICSBE_401	ARTIFICIAL INTELLIGENCE APPLICATION IN ARCHITECTURE AND ENGINEERING R.M.H Liyanage, Shiromal Fernando, Priyan Mendis	
10.00 – 10.15 hrs	ICSBE_295	COMPARATIVE STUDY OF WIND LOADING COMBINATIONS FOR TALL BUILDINGS INCLUDING TORSION: A CFD APPROACH B. Kiriparan, J. A. S. C. Jayasinghe, U. I. Dissanayake, W. J. B. S. Fernando	
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 H.A.D. Samith Buddika, U.G.K. Prabodya, T.A. Madusanga	
10.45 – 11.00 hrs	ICSBE_282	H.A.D. Samith Buddika, U.G.K. Prabodya, T.A. Madusanga NUMERICAL STUDY ON EXTERNAL PRESSURE VARIATION OF TALL-BUILDINGS DUE TO INTERFERING EFFECTS E. M. R. Ekanayake, H. M. A. I. Herath, J. A. S. C. Jayasinghe and A. J. Dammika	

		16 th December 2023
	Roor	n 1 (Hybrid)/ Session 02
	I	ESL Speical Session
Li Z w Maria	https://us06web.zoom	.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1
Join Zoom Meeting	Meeting ID: 881 0114	17875 Passcode: 672369
Time	Description Facilitator	
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 12.451		Prof. Janaka Ruwanpura (Moderator)
12.20 - 12.45 hrs	Panel Discussion	Prof. Ranjith Dissanayake, Prof. Priyan Mendis, Eng. Sarath Gamini, Prof. Janaka Ekanayaka

Closing remarks

 $12.45 - 12.50 \; hrs$

Room 1 (Hybrid)/ Session 03

Concrete Technology and High-Performance Concrete

Join Zoom Meeting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1		
John Zoom Meeting	Meeting ID: 881 011	4 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 hars	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
Time	Paper ID	Title	
14.45 - 15.00 hrs	ICSBE_72	FUNCTIONAL EVALUATION OF IDENTIFIED RURAL CONCRETE ROADS IN SRI LANKA - A CASE STUDY K. P. Arandara, S. T. Priyadarshana, G. N. Pranavithana, R. B. Mallick, R. Dissanayake	
15.00 - 15.15 hrs	ICSBE_145	EFFECTS OF POROSITY AND DISTRESSES IN CONCRETE ON ULTRASONIC PULSE VELOCITY READINGS M.Mayooran, J.C.P.H.Gamage, E.R.K.Chandrathilaka	
15.15 - 15.30hrs	ICSBE_234	DEVELOPMENT OF LIGHTWEIGHT AGGREGATE CONCRETE WITH RECYCLED HDPE PLASTIC PALLETS 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	
15.30 - 15.45 hrs	ICSBE_10	IMPROVING MIXED CONSTRUCTION AND DEMOLITION WASTE USED AS FINE AGGREGATES IN CONCRETE PRODUCTION BY PHYSICAL PRE-TREATMENT R. N. Udarika, C.K. Pathirana	

Room 1 (Hybrid)/ Session 04

Join Zoom Meeting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1		
	Meeting ID: 881 011	4 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	
Time	Paper ID	Title	
17.05 - 17.20 hrs	ICSBE_3	SIMULATION OF TIME DEPENDENT BEHAVIOUR OF RESTRAINED RC ELEMENTS S.P.D. Danushka, J.M.C.I. Jayasinghe, H.D. Yapa	
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.H.G.Y.M. Udari Yaparathne, Kavini Guruge	
17.50 - 18.05 hrs	ICSBE_356	HOW GREEN IS WORLD'S GREENEST CITY? Şerban Procheş	
18.05 - 18.20 hrs	ICSBE_174	EXPERIMENTAL INVESTIGATION ON POROUS CONCRETE FOR SUSTAINABLE DRAINAGE SYSTEMS D.R.T. Niwunhella, D.N.S. Kalpadeep, N.G.P.B. Neluwala, A.J. Dammika	
18.20 - 18.35 hrs	ICSBE_77	EMISSION REDUCTION POTENTIAL AND LAND-USE IMPLICATIONS OF DECARBONISING THE POWER SECTOR IN SRI LANKA Lahiru Jayasuriya, Gayan Subasinghe, Mevan Pathirathne, Thusitha Sugathapala	

Room 2 (Hybrid)/ Session 01

RMIT Sri Lanka Joint Research Session

Join Zoom Meeting		
	Meeting ID: 971 4465 7867 Passcode: 816	5212
Time	Description	Facilitator(s)
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 Chairs UoP: Prof. Nadeeshani Nanayakkara UoM: Senior Prof. Chintha Jayasinghe UoR: Dr. Ruwan Appuhamy UoSJP: Prof. Chaminda Konthesingha
10.05 – 10.20 hrs	D. I.D.	UoP: Dr. S. K. Weragoda Director/Joint Research and Demonstration Center fo Water Technology (JRDC),
10.20 – 10.35 hrs	Panel Discussion Academic-Industry forum: Progress, Industry engagement and future opportunities	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	

Room 2 (Hybrid)/ Session 02

SECRA/ FOUNTAIN Session

	https://zoom.us/j/971446578	67?pwd=dm5vZzl4c3BLRVB2bXc2	2QmV1MHhEZz09	
Join Zoom Meeting	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	
Time	Description	Fa	acilitator	
14.15 - 14.20 hrs	Welcome address	Prof. Roshan D. Yapa		
14.20 - 14.35 hrs	Key Lecture 01	Mr. Migara Amithodhana		
Time	Paper ID	Title		
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 P L C Perera, M Ranagalage, G Y Jayasinghe		
14.50 - 15.05 hrs	ICSBE_283	INVESTIGATING HOW GREEN INFRASTRUCTURE AFFECTS PARTICULATE MATTER CONCENTRATIONS IN URBAN STREET ENVIRONMENTS H.A.T.N. Perera, K.G.N.H. Weerasinghe, R.U. Halwatura, G.Y. Jayasinghe		
Time	Description	Facilitator		
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 D.P.Lokuwithana, K.Hemachandra, P.B.R.Dissanayake		
Time	Description	Fa	acilitator	

16.35 hrs - 16.50 hrs	Key Lecture 04	Prof. Roshan D. Yapa
Time	Paper ID	Title
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 S.M.S.N. Senanayake, P.A.N.P. Pandipperuma, J.M.H.M. Upulwehera, P.B.R. Dissanayake, R.P.I.R. Prasanna
17.05 - 17.20 hrs	ICSBE_308	INNOVATION ECOSYSTEMS: SUSTAINING UNIVERSITY-INDUSTRY HARMONY IN THE ASIAN EDUCATIONAL LANDSCAPE 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
Time	Description	Facilitator
17.20 - 17.35 hrs	Key Lecture 05	Mr. Chamath Kandambi
Time	Paper ID	Title
17.35 - 17.50 hrs	ICSBE_291	REVISITING LAND USE PLANNING POLICIES FOR RIVERBANK SETTLEMENTS: LESSONS FROM MELAMCHI FLOOD IN NEPAL Sanjaya Uprety, Barsha Shrestha
17.50 - 18.05 hrs	ICSBE_303	THE IMPACT OF CLIMATE CHANGE ON FOOD SECURITY: A REVIEW OF RECENT RESEARCH W.G.M Randika, S.M.T.P Suriyapperuma, G.Y. Jayasinghe
Time	Description	Facilitator
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

Room 3 (Hybrid)/ Session 01

Structural Engineering Session

	1		
Join Zoom	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz09		
Meeting	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
Time	Paper ID	Title	
09.00 – 09.15 hrs	IABMAS_181	STEEL TRUSS BRIDGE WITH BUCKLING RESTRAINED DAMPERS UNDER SEISMIC LOADING E. Yamaguchi, N. Enkhbold, P. Sosorburam	
09.15 – 09.30 hrs	ICSBE_351	A FUZZY ANALYSIS APPROACH FOR EVALUATING THE INFLUENCE OF SUBJECTIVE APPRAISAL ON CONSTRUCTION PRODUCTIVITY DRIVERS Amila Premakumara, Isuri Amarasinghe, Chandana Siriwardana	
09.30 – 09.45 hrs	ICSBE_352	FINITE ELEMENT MODELLING OF FATIGUE CRACK GROWTH OF CSH SUBJECTED TO CYCLIC FLEXURAL LOADING S.Abeygunasekara, J.C.P.H.Gamage, S.Fawzia	
09.45 – 10.00 hrs	ICSBE_353	COMPRESSIVE STRENGTH PREDICTION OF ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE (UHPFRC) USING ARTIFICIAL NEURAL NETWORKS R.S.S.A. Wijesundara, K.K. Wijesundara, N.M.S.H. Bandara	
10.00 – 10.15 hrs	ICSBE_186	REUSABILITY OF CONCRETE STRUCTURAL ELEMENTS AFTER THE SERVICE LIFE – SRI LANKAN PERSPECTIVE S.A.R.B.S. Siriwardhana, G. Tharmarajah	
10.15 – 10.30 hrs	ICSBE_275	SUITABILITY ASSESSMENT OF COMPOSITE CROSSARMS S Bandara, P Rajeev, E Gad	

Room 3 (Hybrid)/ Session 02

Sustainable Agriculture Session

		8		
Isin Zana Massina	https://zoom.us/j/97717	785708?pwd=QU5FMnpUNk44el	BhWUhsVGVoZWJ3Zz09	
Join Zoom Meeting	Meeting ID: 977 1778 5	708 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 (Cinnamomum zeylanicum) ESSENTIAL OIL FOR FOOD PACKAGING K.G. Kaushani, N.P. Katuwavila, R.A. Jayasinghe, A.H.L.R. Nilmini, G. Priyadarshana		
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 J.K.R.L.Weerawardhana, W.M.H.M.Aththnayaka, M.L.Rankothge		
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 N. M. S. U. Nissanka		
12.15- 12.30 hrs	ICSBE_219	GREEN FINANCING AS A MEASURE TO BUILD RESILIENCE AMONG FISHERIES COMMUNITIES IN SRI LANKA M.M.S.C. Senevirathne, D.A.M. De Silva, M.Esham, C.N. Pupulawaththa		
12.30 - 12.45 hrs	ICSBE_220	BUSINESS CONTINUATION MECHANISM FOR TEA SMALLHOLDERS: BUILDING RESILIENCE ON CLIMATE- INDUCED DISASTERS M.G.D.N.M. Wijerathne, D.A.M. De Silva		
12.45 - 13.00 hrs	ICSBE_217	SMALL-SCALE FISH PROCESSING ESTABLISHMENTS AND THEIR VULNERABILITY TO CLIMATE HAZARDS W.B.G.S. Welihinda, D.A.M. De Silva		
13.00-13.15 hrs	ICSBE_358	DEVELOPMENT OF LIGHTWEIGHT EXPANDED CLAY AGGREGATES FORMED USING SLUDGE DISCHARGED FROM THE DRINKING WATER TREATMENT PROCESS Sajani H. Kolambage, Dimalka R.M.N, Chathura Sanjeewa W., Pradeep Gajanayake		
13.15-13.30 hrs	ICSBE_65	CHARACTERISTICS OF ESSENTIAL OIL EXTRACTED FROM SPOUTED BED DRIED BLACK PEPPER G.K. Jayatunga, B.M.W.P.K. Amarasinghe		

Room 3 (Hybrid)/ Session 03

Fire Safety Engineering Session

The Suree Januaring Session			
Join Zoom Meeting	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz0		IBhWUhsVGVoZWJ3Zz09
Join Zoom Meeting	Meeting ID: 977 1778 5708	8 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
Time	Paper ID	Facilitator	Title
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 R.L.P. Godakandage, K. T. Q. Nguyen, T.G.P.L Weerasinghe1, J.C.P.H. Gamage	
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 THTN Premanath, KMC Konthesingha, IR Upasiri, HMSC Rathnasiri, WPHP Weerasinghe, THTN Premanath, KMC Konthesingha, IR Upasiri, HMSC Rathnasiri, WPHP Weerasinghe	
15.20 - 15.35 hrs	ICSBE_284	INVESTIGATE THE THERMAL RESPONSE OF DIFFERENT INSTALLATION FORMS OF GLASS PANELS UNDER FIRE LOADING: A NUMERICAL APPROACH R. G. S. S. Perera, J. H. A Ruwanmali, T. Thevega, J. A. S. C. Jayasinghe	
15.35- 15.50 hrs	ICSBE_400	ACTIVE AND PASSIVE FIRE SAFETY SIMULATION FOR OFFICE BUILDINGS R.A.D.M.Kahatapitiya, W. J. B. S. Fernando, Priyan Mendis	
15.50- 16.05 hrs	ICSBE_296	FIRE PERFORMANCE OF POLYMER IN COMPOSITE MATERIALS FOR BUILDING CLADDINGS: A NUMERICAL APPROACH T. Thevega, J. A. S. C. Jayasinghe, D. Robert, C. S. Bandara, E. Kandare, S. Setunge	

Room 3 (Hybrid)/ Session 04

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

	DKI	X and Social Enterprises)	
Jain Zaam Mastina	https://zoom.us/j/97	717785708?pwd=QU5FMnpUNk446	elBhWUhsVGVoZWJ3Zz09	
Join Zoom Meeting	Meeting ID: 977 17	78 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	
Time	Description	Facilitator		
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		
Time	Paper ID	Title		
17.25 - 17.40 hrs	ICSBE_403	AN INVESTIGATION OF THE APPLICABILITY OF BIOMIMICRY CONCEPTS IN SOCIAL ENTERPRISES' (ES) RESILIENCE G.R.S.D. Gamage, K. Hemachandra, P.B.R. Dissanayake, D. Amaratunga, R. Haigh		
17.40 - 17.55 hrs	ICSBE_404	REVIEW OF NATURE INSPIRED SOLUTIONS FOR DISASTER RISK REDUCTION Panchali Dias . Nuwan Dias . Ranjith Dissanayake		
17.55 - 18.10 hrs	ICSBE_170	A NATURE-INSPIRED SOLUTION FOR ENHANCED IMPACT RESISTANCE OF STRUCTURES H.M.T. Sajana, P.L.N. Fernando		
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 th	December	2023
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Room 6 (Hybrid)/ Session 01

Construction Management Session

Join Zoom Meeting	https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWIBQT09			
John Zoom Weeting	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	
Time	Paper ID	Title		
09.00 – 09.15 hrs	ICSBE_151	STRATEGIES TO OVERCOME COMMUNICATION DEFICIENCIES IN MANAGEMENT CONTRACTS IN SRI LANKAN CONSTRUCTION INDUSTRY M. Dinujanth, I.S. Gamage, B.C.T.M. Karunaratne		
09.15 – 09.30 hrs	ICSBE_157dag	EFFECT OF CURRENT ECONOMIC CRISIS ON CONSTRUCTION CONTRACTORS IN SRI LANKA: AN EXPLORATORY STUDY ON SMALL-SCALE CONTRACTORS M. T. D. Perera, K. A. N. Gunarathna, B.C.T.M. Karunaratne		
09.30 – 09.45 hrs	ICSBE_244	CONSTRUCTION CONTRACTUAL ISSUES AND PROSPECTS APPLYING OF ALTERNATIVE DISPUTE RESOLUTIONS IN SRI LANKA HN Hikkaduwa		
09.45 – 10.00 hrs	ICSBE_17	STRATEGIC ASSET MANAGEMENT FRAMEWORK FOR CENTRAL ENGINEERING CONSULTANCY BUREAU (CECB) B. H. J. Bulathsinhala, K. K. K. Sylva		

Room 6 (Hybrid)/ Session 02

Construction Management Session

Join Zoom Meeting	https://zoom.us/j/9	https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWlBQT09		
John Zoom Meeting	Meeting ID: 972 4	1114 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 O.M. Hasaranga, C. Jayasinghe, K.P.I.E. Ariyaratne		
11.45 - 12.00 hrs	ICSBE_342	THE INTEGRATION OF CIRCULAR ECONOMY PRINCIPLES WITH BIM-ENABLED MATERIAL PASSPORTS FOR SUSTAINABLE CONSTRUCTION J.M.P.M. Jayawardane, I.H.N. Chathuranga, C.S.A. Siriwardana, Wajiha Shahzad		
12.00- 12.15 hrs	ICSBE_277	DEVELOPMENT OF A CRACK SEVERITY-BASED DAMAGE ASSESSMENT MATRIX FOR MASONRY BUILDINGS Wickramathilake G G T D, Jayasinghe C, Ariyaratne I E		
12.15- 12.30 hrs	ICSBE_227	WHAT DEMOTIVATES HOMEOWNERS TO RETROFIT THEIR HOUSES: A SYSTEMATIC REVIEW C, Panakaduwa, S,P, Coates, M, Munir		
12.30 - 12.45 hrs	ICSBE_348	BEST PRACTICES OF OFF-SITE MANUFACTURING: LESSONS FROM AUSTRALIAN PREFAB MANUFACTURERS J. Jayawardana, J. A. S. C. Jayasinghe, A. K. Kulatunga, M. Sandanayake, G. Zhang		
12.45 - 1.00 hrs	ICSBE_276	ASSESSING THE READINESS FOR DIGITAL TECHNOLOGIES ADOPTION FOR ENHANCING PRODUCTIVITY IN THE SRI LANKAN CONSTRUCTION INDUSTRY I.H.N. Chathuranga, C.S.A. Siriwardana, I.E. Ariyaratne		

Room 6 (Hybrid)/ Session 03

Construction Management Session

Join Zoom Meeting	https://zoom.us/j/9724	41148173?pwd=WGpPY2dXR1Z4	RURJWFVhRW5rUWIBQT09
· · · · · · · · · · · · · · · · · · ·	Meeting ID: 972 4114	18173 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 R.R.J.C Jayakody	
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 Christeen S.K.P., Jayasooriya V.M	
14.45 - 15.00 hrs	ICSBE_133	FLEXIBILITY TO INCORPORATE CIRCULAR ECONOMIC PRACTICES WITHIN BUILT ENVIRONMENT PROCUREMENT CONTRACTS IN SRI LANKA R. R. M. M. K. Wadugodapitiya, K. K. K. Sylva, S. M. Dissanayake	
15.00 - 15.15 hrs	ICSBE_168	NEW WORK STRATERGIES TO OVERCOME THE IMPACT OF UNFORSEEN DISRUPTIVE EVENTS FOR CONSTRUCTION CONSULTANTS S Hettiarachchi, C Allis, Y.K Delpachitra	
15.15 - 15.30 hrs	ICSBE_225	A STUDY ON THE MISSED OPPORTUNITIES THROUGH THE SRI LANKAN CONSTRUCTION INDUSTRY TOWARDS A SUSTAINABLE ECONOMIC GROWTH WDBJ Jeewananda, SD Jayasooriya	
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 B. Rathnayake, C. Jayasinghe, P. Perera	
15.45- 16.00 hrs	ICSBE_158	A BIM-BASED ROAD MAP TO IMPLEMENT LEAN CONSTRUCTION PRINCIPLES TO MINIMIZE WASTE IN CONSTRUCTION PROJECT M.G.D.M.Y. Wickramasinghe, H. Bandara, U.S. Perera, R.M.K. Sandama	
16.00 – 16.15 hrs	ICSBE_109	AWARENESS AND PERCEPTION OF QUANTITY SURVEYORS TOWARD THE SMART CONSTRUCTION CONCEPTS R. S. V. Rajapaksha, K. Devapriya, M. L. S. S. Fernando	

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
Time	Description	Facilitator	Title
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
Time	Paper ID	Title	
09.40 – 09.55 hrs	ICSBE_324	USE OF GEOSYNTHETICS FOR SUSTAINABLE, ECONOMICAL, AND DURABLE ROAD PAVEMENT STRUCTURES C. Gallage, K. Wimalasena, A. Pathirana	
09.55 – 10.10 hrs	ICSBE_285	A PRICING POLICY FOR VEHICLES AND FUEL FOR SRI LANKA L.S.M. Silva, A.S. Kumarage, M. Mavin De Silva	
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 M.A.K.V Warnakulasooriya, B. Fernando	
10.25 – 10.40 hrs	ICSBE_289	SRI LANKAN VEHICULAR EMISSION ANALYSIS USING BIG DATA Avishka Lakshan, Amal S. Kumarage, M. Mavin De Silva	
10.40 – 10.55 hrs	ICSBE_270	DEVELOPMENT OF THE TRANSPORTATION SUSTAINABILITY TRADING SYSTEM FOR ROAD CONSTRUCTION PROJECTS IN SRI LANKA C.N.J Samaranayake1*, G.N Samarasekara, K.M.C Konthesingha, W.M.N.R Weerakoon, R.S.M Samarasekara1, R. Dissanayake	
10.55 – 11.10 hrs	ICSBE_406	CELLULAR AUTOMATA MODELING APPROACH TO FORECAST LAND USE CHANGES IN KATUNAYAKE AIRPORT CITY K.D. Herath, P.C.P. De Silva , P.K.S. Mahanama	

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
Time	Description	Facilitator	
14.15- 14.30 hrs	Key Lecture 01	Prof. Roshan Godaliyadda	
Time	Paper ID	Title	
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 VERYING SPATIAL SCALE FINER RESOLUTION WEATHER DATA Susantha Wanniarachchi, Ranjan Sarukkalige	
15.00 - 15.15 hrs	ICSBE_205	DEVELOPING A MATHEMATICAL MODEL AND MOBILE APP FOR GREENHOUSE MONITORING AND CONTROL USING SENSOR INTEGRATION M.T.U.D.Mallikarathne, A.M.H.M.Abeysinghe, A.P. Wijayawantha	
15.15 - 15.30 hrs	Panel discussion	Prof. Janaka Ekanayake (Moderator) Prof. Roshan Godaliyadda	

Room 7 (Physical)/ Session 01

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

Room 7 (Physical)/ Session 02

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

Room 7 (Physical)/ Session 03

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

Room 7 (Physical)/ Session 03

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

Room 4 (Online)/ Session 01

Coastal Engineering Session

		8 8		
Join Zoom Meeting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09			
John Zoom Meeting	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	
Time	Paper ID	Title		
09.00 – 09.15 hrs	ICSBE_101	EXTREME WAVE ANALYSIS WITHIN A CONFINED HARBOR BASIN: A CASE STUDY OF COLOMBO PORT D. P. C. Laknath, I.G.I. K. Kumara, S.S.D.S Gunasekara		
09.15 – 09.30 hrs	ICSBE_102	NUMERICAL MODELLING OF COASTAL PROCESSES FOR ENHANCED NAVIGATION THROUGH NATURALLY FORMED SUBMERGED REEFS D. P. C. Laknath, I.L. Abeygoonasekara, D.E.N. Senarathne, K.K.P.P. Ranaweera		
09.30 – 09.45 hrs	ICSBE_106	HARBOUR DEVELOPMENT IN BALAPITIYA: INSIGHTS FROM NUMERICAL MODELING OF COASTAL PROCESSES D. P. C. Laknath, D.E.N. Senarathne, I.L. Abeygoonasekara, K.K.P.P. Ranaweera		
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. Jeyapalu Jathushan, V.P.A.Weerasinghe		
10.00 – 10.15 hrs	ICSBE_259	BASIN RESONANCE STUDY FOR COLOMBO SOUTH HARBOR THROUGH LONG-WAVE STUDIES FOR ENHANCED PORT OPERATIONS D. P. C. Laknath, I.G.I. K. Kumara, S.S.D.S Gunasekara		

Room 4 (Online)/ Session 02

Climate Change Session

Li Z. M. i	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09			
Join Zoom Meeting	Meeting ID: 985 61	17 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	
Time	Paper ID	Title		
11.30 - 11.45 hrs	ICSBE_75	SPATIO-TEMPORAL ANALYSIS OF MODIS-BASED LAND SURFACE TEMPERATURE USING GOOGLE EARTH ENGINE (GEE) IN AMPARA DISTRICT Nuskiya, M.H.F., Zahir, I.L.M., Mohamed Thariq, M.G, Sunethra Thennakoon, Iyoob, A.L, Ameer, M.L.F.		
11.45 - 12.00 hrs	ICSBE_194	ESTIMATION OF ANNUAL ENERGY PRODUCTION AND DEVICE PARAMETER OPTIMISATION IN SRI LANKAN WAVE CLIMATIC CONDITIONS B.H.B.P.D. Baddegamage, R.L.K. Lokuliyana, S.D.G.S.P. Gunawardane, Y.H. Lee		
12.00- 12.15 hrs	ICSBE_267	CLIMATE CHANGE AND PADDY CULTIVATION OF SRI LANKA P.K Hitige, L.Y Hitige		
12.15 - 12.30 hrs	ICSBE_33	ANALYSIS OF THE IMPACT OF THE CLIMATE CHANGE ON STORM SURGES AND GLOBAL EXTREME EVENTS IN THE 21st CENTURY B. Premaratne, F. Inam		

Room 4 (Online)/ Session 03

Join Zoom Meeting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09		
John Zoom Weeting	Meeting ID: 985 61	17 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
Time	Paper ID		Title
14.00 - 14.15 hrs	ICSBE_85	EFFICACY OF GREEN BUILDING RATING SYSTEMS TO PROTECT BIODIVERSITY OF SRI LANKA S.U. Navimanage, S.N.C.M Dias, S. Manawadu	
14.15 - 14.30 hrs	ICSBE_103	EFFECT OF ENERGY DEMAND AND THERMAL COMFORT OF LOW INCOME HOUSES; CASE OF MONARAGALA DISTRICT KSKNJ Kudasinghe, H Munasinghe	
14.30 - 14.45 hrs	ICSBE_116	LIFE CYCLE COST ANALYSIS OF GREEN BUILDING PROJECTS IN SRI LANKA CV Rajasekara, DVH Dodangoda, WN Kawmudi	
14.45 - 15.00 hrs	ICSBE_144	DEVELOPMENT OF A NOVEL WASTE BASED INSULATED PLASTER WITH WATER PROOFING ABILITY FOR ROOF SLABS D.D. Weerakkody, J.C.P.H. Gamage, E. R. K. Chandrathilaka, Kajanan Selvaranjan	
15.00 - 15.15 hrs	ICSBE_211	EFFECTIVENESS OF IMPLEMENTING SUSTAINABLE PUBLIC PROCUREMENT (SPP) PRACTICES IN THE SRI LANKAN CONSTRUCTION INDUSTRY E. M. P. G. A Ekanayake, C Jayasinghe, K. P. H Perera, K. V. J. P Ekanayake	
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 P.L.L.T.D. Alwis, D. Nanayakkara	
15.30 - 15.45 hrs	ICSBE_343	THE EXPRESSION OF HOME AND ITS ARCHITECTURAL MANIFESTATION IN THE SRI LANKAN CONTEXT D.M.C.S.Pieris, J Wijesundara	

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. K.Y.M.Sirimewan, J.H.Dharmasena		
16.15-16.30 hrs	ICSBE_264	UTILIZING MODULARIZATION TO ACHIEVE SUSTAINABLE CONSTRUCTION P.T.P. Jayathunga, B. Edirisooriya, P.C.O. Fernando, N. Herath, K.K. Jayasinghe		
16.40-16.55 hrs	ICSBE_15	TOWARDS SUSTAINABLE BUILDINGS: A REVIEW ON BUILDING MATERIAL SELECTION S. V. Gurupatham, C. Jayasinghe, P. Perera, R. Lepakshi		
16.55 - 17.10 hrs	ICSBE_34	CLIMATE SMART ROOFING MATERIALS AND TECHNOLOGIES IN SRI LANKAN CONSTRUCTION INDUSTRY: SPECIAL ATTENTION TO EASTERN PROVINCE R. Sathurshan, K.B.A. Silva		
17.10 - 17.25 hrs	ICSBE_272	ANALYSING THE DAYLIGHT DISSEMINATION IN HIGH-RISE INTERIORS: A ZONE-SPECIFIC CASE STUDY AT SAINTGITS C. Punnya Brahmanand, M. Dhanyasree, Sajan Thomas, Joselin Herbert, Jacob Thottathil Varghese, Basil George Thomas, Arjun Venugopal, Siju K		
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 S.R. Dharmasena, K.D.S. Nimashi		
17.40 - 17.55 hrs	ICSBE_223	SUITABILITY OF PLASTIC MODIFIED ASPHALT CONCRETE (PMAC) IN SRI LANKAN CONTEXT N. M. R. S. P. Nawela, Dr. J. Samaranayake		
17.55 – 18.10 hrs	ICSBE_273	THE CURRENT GROWTH OF GREEN ENERGY AND ITS DEVELOPMENT IN INDIA Er. Aditya Singh		

Room 1 (Hybrid)/ Session 01

Innovations in Building Materials Session

Join Zoom	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1		
Meeting	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
Time	Description	Facilitator	
09.00 - 09.05 hrs	Introduction to keynote Lecturer	Session Chair 01	
09.05 - 09.25 hrs	Keynote Lecture	Prof. Chintha Jayasinghe	
Time	Paper ID	Title	
09.25 – 09.40 hrs	ICSBE_229	THE SUCCESS OF SUSTAINABLE MATERIALS IN CREATING SUSTAINABLE BUILT ENVIRONMENT: AN INSIGHT FROM LOCAL CONSTRUCTION PRACTICES G.W.J.K.K. Wijesundara	
09.40 – 09.55 hrs	ICSBE_120	THE USE OF WIRE MESH–FLEXIBLE CEMENTITIOUS POLYMER COMPOSITE FOR STRENGTHENING REINFORCED CONCRETE BEAMS M.A.V.H.M. Arachchi, S.P.R.S. Jayasinghe, H.M.C.C. Somarathna, D. Mohotti	
09.55 – 10.10 hrs	ICSBE_131	SYNERGISTIC EFFECTS OF GRAPHENE OXIDE - SILICA NANOHYBRIDS ON THE PROPERTIES OF CEMENT MORTAR Suganthiny Ganesh, S. V. T. Janaka Perera, Charitha Thambiliyagodage ,R. K. N. D. Rajapakse	
10.10 – 10.25 hrs	ICSBE_142	BEHAVIOR OF DAMAGED REINFORCED RUBBERIZED CONCRETE BEAMS STRENGTHEN WITH CARBON FIBER REINFORCED POLYMERS R.K.S. Maleesha, J.C.P.H. Gamage, E.R.K. Chandrathilaka	
10.25 – 10.40 hrs	ICSBE_117	ENHANCEING IMPACT RESISTANCE OF MASONRY STRUCTURES WITH FLEXIBLE CEMENTITIOUS POLYMERS COATINGS T.V. Muthukumarana, P.L.D.C. Liyanage, H.M.C.C. Somaratthna, S.N. Raman	
10.40 – 10.55 hrs	ICSBE_241	GYPSUM BOARD REINFORCED WITH PINEAPPLE LEAF FIBER 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	
10.55 – 11.10 hrs	ICSBE_119	FEASIBILITY OF USING PALMYRA STRIPS AS REINFORCING MATERIAL IN LIGHTLY LOADED CONCRETE BEAMS R.C. Dissanayake, S. Lusiyashtharsikka, H.M.C.C. Somarathna, B. Kiriparan	

17 th December 2023 Room 1 (Hybrid)/ Session 02 Bridge Design Construction and Maintenance (Organized by the IABMAS Sri Lanka Group)					
				https://us06web.zoom.us/j/8	88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1
				Meeting ID: 881 0114 7875 Passcode: 672369	
Description	Facilitator				
Welcome Address	Prof. Ranjith Dissanayake				
Introduce Keynote 01 Speaker					
Keynote 01	Prof. Mitsuyoshi Akiyama				
Introduce Keynote 02 Speaker					
Keynote 02	Prof. Upul Attanayake				
	Room 1 Bridge Design ((Organized by the lattest of the lattest o				

Prof. Chaminda Bandara

12.40 – 12.50 hrs

Vote of Thanks

Room 1 (Hybrid)/ Session 03

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

	-		
Join Zoom Meeting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1 Meeting ID: 881 0114 7875 Passcode: 672369		
Join Zoom Mccting			
Session Chair 1	Prof. Chaminda Bandara	Session Coordinator 1 Mr. Chamath Pigera	
Session Chair 2	Dr. Dammika Abeykoon	Session Coordinator 2	Mr. Hashan Thilakarathna
Time	Paper ID	Title	
14.15 - 14.30 hrs	IABMAS_73	ROTATIONAL FLEXIBILITY OF DOUBLE-ANGLE RIVETED BRIDGE CONNECTIONS B Imam, N Burud, M K Chryssanthopoulos	
14.30 - 14.45 hrs	IABMAS_182	LOAD TESTING AND RATING OF A PC BRIDGE WITHOUT STRUCTURAL PLANS C. Hutchinson, A. Peiris, I. Harik	
14.45 - 15.00 hrs	IABMAS_148	POSTTENSION MODELLING TECHNIQUES FOR A TIE GIRDER OF A NETWORK TIED ARCH BRIDGE B. M. K. L. K. Basnayake, U. B. Attanayake	
15.00 - 15.15 hrs	IABMAS_191	DEVELOPMENT OF EARTHQUAKE RESISTANT DESIGN GUIDELINES FOR BRIDGES IN SRI LANKA M.A.C. Kumara, C.S. Lewangamage	
15.15 - 15.30 hrs	IABMAS_247	A COMPARATIVE STUDY ON APPROACHES TO ESTIMATE LATERAL DISTORTIONAL BUCKLING STRENGTH IN STEEL- CONCRETE COMPOSITE BEAMS W. M. A. D. Wijethunge, A. J. Dammika, C. S. Bandara, J. A. S. C. Jayasinghe	
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 A. C. D. Pigera, M. Jenothan, J. A. S. C. Jayasinghe, C. S. Bandara, A. J. Dammika	
15.45- 16.00 hrs	IABMAS_132	EVALUATION OF THE DEGREE OF UNCERTAINTY IN ASSESSING DETERIORATED PC I-BEAM END CAPACITY S. K. Bhowmik, Y. Hu1, U. B. Attanayake	
16.00 - 16.15 hrs	IABMAS_134	ULTIMATE LOAD CAPACITY OF SUSPENSION BRIDGE AT MALIBADA, SRI LANKA R.C.S. Jinadasa, P.A.K. Karunananda	
16.15 - 16.30 hrs	IABMAS_135	ADDRESSING SUSTAINABILITY THROUGH INNOVATIVE MIX DESIGNS AND IMPLEMENTATION OF ACCELERATED BRIDGE CONSTRUCTION TECHNIQUES B. M. K. L. K. Basnayake, U. B. Attanayake, M. LaViolette, P. Pakala4, R. Goniwiecha	

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

Room 2 (Hybrid)/ Session 01

Water Pollution and Water Treatment Technologies Session

Lein Zaam Mastina	https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			
Join Zoom Meeting	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 B. U. Kaushalya, P. V. Kahawearachchi, H. G. S. S. U. Priyankara, K. G. N. Nanayakkara		
09.15 - 09.30 hrs	ICSBE_110	MODELLING SIMULATION OF ELECTROCHEMICAL CELLS FOR WATER TREATMENT H.G.S.S.U. Priyankara, T.R.E.A.H.D. Rajapaksha, K.G.N. Nanayakkara		
09.30 - 09.45 hrs	ICSBE_262	ULTRASONIC MODIFICATION OF ADSORBENTS FOR ENHANCEMENT OF THE PERFORMANCE IN DYE REMOVAL FROM AQUEOUS SOLUTION L.K.K.N. Perera, K.H.M. Kuruwita, B.M.W.P.K. Amarasinghe		
09.45 - 10.00 hrs	ICSBE_185	CASE STUDIES OVER THE FAILURE OF ONSITE SEWERAGE TREATMENT SYSTEMs IN SRI LANKA U.G. Amarawickrama, T.D. Denagama		
10.00 - 10.15 hrs	ICSBE_221	A REVIEW OF IMPACTS OF OCEAN ACIDIFICATION ON CORAL REEFS P.M.M. Nilusha, M. Danthurebandara, C. S. Kalpage		
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 R. M. A. Dilini, J. Manatunge, G.G.N. Thushari, S.M. Gnanasingha		
10.30- 10.45 hrs	ICSBE_21	USE OF BULKING AGENTS FOR COMPOSTING SECONDARY SEWAGE SLUDGE FROM WASTEWATER TREATMENT PLANTS; A REVIEW S.V. Chandeepa, C.S. Kalpage		

Room 2 (Hybrid)/ Session 02

Water Resources Planning and Pollution Control Session

Join Zoom Meeting	https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			
John Zoom Meeting	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	
Time	Paper ID	Title		
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 S. Ranwala, U.H.M.S. Silva, K.D.W. Nandalal		
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). Jathursan S, Gobidan N.N		
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 W.P.Madhushani Perera, M.T.U.D. Mallikarathne, G.A.H.K.M. Gamlath 1, A.M.H.M. Abeysinghe		
12.45 - 13.00 hrs	ICSBE_224	OPTIMIZING PHYSICS PARAMETERS FOR HEAVY RAINFALL FORECASTING IN THE KELANI RIVER BASIN USING THE WRF MODEL P.L.L.N. Perera, N.G.P.B. Neluwala, J.J.Wijetunge		

Room 2 (Hybrid)/ Session 03

Water Resources Planning and Pollution Control Session

	https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			
Join Zoom Meeting	Meeting ID: 971 4465 786	7 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-F KELANI RIVER BASIN, SRI LAN M.K.D.K.C. Madapatha, W.A.I. Mad	KA	
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 Y.M Saifudeen, A.J.F Mazeera, A.C.A Suja		
14.45 - 15.00 hrs	ICSBE_118	DYNAMIC BEHAVIOR OF SALINITY INTRUSION IN KELANI RIVER, SRI LANKA V.D. Athuraliya, N.G.P.B. Neluwala, K.P.P.Pathirana		
15.00 - 15.15 hrs	ICSBE_121	ORGANIC MEMBRANE FILTERS FOR TEXTILE WASTEWATER TREATMENT: A REVIEW R.P.D.D. Senarathne, C.S. Kalpage		
15.15 - 15.30 hrs	ICSBE_123	DETECTION OF MICROPLASTICS FROM DOMESTIC LAUNDERING USING ATTENUATED TOTAL REFLECTANCE – FOURIER TRANSFORM INFRARED (ATR-FTIR) SPECTROSCOPY Vigneswaran Nitharshan, Sajani Kolambage, Tharanja Gobalakrishnan, Aravinda Nirella, Nimantha Jayanaka, Pradeep Gajanayake, Rohan S. Dassanayake,		
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 L. M. J. R. Wijayawardhana, K. D. N. Weerasinghe and C. M. Navaratne		
15.45- 16.00 hrs	ICSBE_95	ASSESSMENT OF THE BEHAVIO THE PRESENCE OF R PUMP HOU USING 2D HYDRAULIC NUMER S.M.Hewavidana, K. Subasinghe	JSE, RAISING OF FLOOD BUNDS	
16.00 – 16.15 hrs	ICSBE_355	MODELLING STORM WATER M. RESPONSE TO DIFFERENT RAIN PATTERNS Pramudika W.O.H, Ubhayaratna K.I	IFALL AND LAND USE	

Room 3 (Hybrid)/ Session 01

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

	T		
Join Zoom	https://zoom.us/j/977	BhWUhsVGVoZWJ3Zz09	
Meeting	Meeting ID: 977 177	8 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 nitritation 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 P.T.A. Thilakarathna, S. Athukorala, F. Fareed, R.N. Jinadasa, T.N. Premachandra, M. Makehelwela3, B.R. Fernando1, S.K. Weragoda, Yawei Wang, Thang Yu, Min Yang, and S.H.P. P. Kanungsatna	
09.35 -09.50 hrs	ICSBE_371	Zhang Yu, Min Yang and S.H.P.P. Karunaratne DIVERSITY AND ANTIBIOTIC RESISTANCE OF HETEROTROPHIC BACTERIA IN DRINKING WATER: A STUDY ALONG THE MAHAWELI RIVER WATER TREATMENT PLANTS FROM KOTAGALA TO BALAGOLLA 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	
09.50 – 10.05 hrs	ICSBE_372	EXPERIENCES OF CHINESE ECO-INDUSTRIAL PARK DEVELOPMENT Jingru Liu	
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 H.M.S.Wasana, G.D.R.K.Perera, I.A.M.P. Ileperuma, H.T.K. Abeysundara6 L. Jayarathne, Youngsong Wei	
10.20 – 10.35 hrs	ICSBE_374		GRAVITY-DRIVEN MEMBRANE DBIAL RISK CONTROL IN PERMEATE iu, Ying Meng, Fubo Luan

		FLUORESCENCE CHARACTERISTICS OF DISSOLVED ORGANIC		
		MATTER IN GROUNDWATER AND SURFACE WATER IN TANK		
10.35 - 10. 50 hrs	ICSBE_375	CASCADE SYSTEMS IN THE DRYZONE OF, SRI LANKA S. Indika, Y.S. We, D.Z. Hu, I. Yapabandara, S. Athauda,, T. Cooray, M.		
		S. Indika, Y.S. We, D.Z. Hu, I. Yapabandara, S. Athauda,, T. Cooray, M.		
		Makehelwala6, K.B.S.N. Jinadasa, S.K. Weragoda R. Weerasooriya		
		IMPACT OF ORGANIC FERTILIZER RATIOS ON MICROBIAL		
10.50 11.05 hm	ICCDE 276	COMMUNITIES IN AGRICULTURAL RUNOFF: A FIELD		
10.50 - 11.05 hrs	ICSBE_376	SIMULATION STUDY		
		WANG Jinshi, HOU Yaojun, WANG Zhirong, WANG Yawei, WEI Yuansong		

Tea Break

Time	Paper ID	Title
11.30 - 11.40 hrs	ICSBE_377	TEMPORAL AND SPATIAL DYNAMICS OF WATER QUALITY PARAMETERS IN BEIRA LAKE: SEASONAL VARIATIONS AND ECOLOGICAL IMPLICATIONS Sangeeth Prasad, Yuansong Wei, Tushara Chaminda, Tharindu Ritigala, Suresh Indika, Isuru Yapa, Sujithra.K. Weragoda, Madhubhashini Makehelwala
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 HU Da-zhou, SURESH-Indika, WEI Yuan-song
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 YUE Wen-hui, LIU Ji-bao, GUO Jian-ning, WEI Yuan-song, SUI Qian-wen
12.00 - 12.10 hrs	ICSBE_380	POWDERED ACTIVATED CARBON-CATALYZED MN(II) REMOVAL BY FREE CHLORINE FOR CONTROLLING DRINKING WATER DISCOLORATION PROBLEMS G. Li, and B. Shi
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 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
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 Samadhi Athauda, Yunwen Wang, Zhineng Hao, Suresh Indika, Isuru Yapabandara, Sujithra K. Weragoda, Jingfu Liu and Yuansong Wei
12.30 12.40 hrs	ICSBE_383	FOULING MECHANISMS AND EFFECTIVE CLEANING STRATEGIES FOR ELECTRODIALYSIS DISTILLATION IN BRACKISH GROUNDWATER TREATMENT Malalagama T.P, Binghui Tian, Gunathilake M.D.D.R, Min Yang
12.40 - 12.50 hrs	ICSBE_384	A COMPREHENSIVE STUDY ON APPLICABILITY AND OPTIMIZINGED DOMESTIC TREATMENT PLANTS FOR GROUNDWATER REVITALIZATION IN THE CKDU-AFFECTED DRY ZONE OF SRI LANKA 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
12.40 - 12.50 hrs	ICSBE_104	IMPORTANCE OF STUDY ON BIOFILM CHARACTERIZATION WITHIN WATER DISTRIBUTION NETWORKS E.G.W. Gunawardana, D.R. Gunathilake, C. Ratnayake, K.R.A.D.U. Jeewarathne, M. Makehelwela, S.K. Weragoda, C.D. Gamage, R. Weerasooriya
12.50 – 13.05	ICSBE_385	BARRIERS FOR THE APPLICABILITY OF CIRCULAR ECONOMY CONCEPT FOR SUSTAINABLE WASTE MANAGEMENT IN SRI LANKAN SUGAR MANUFACTURING INDUSTRY P.D. Jayawardhana, D.M.P.P. Dissanayake, P.A.P.Y.Gajaba

Room 3 (Hybrid)/ Session 03

Urban Landscape Ecological Planning Session

1 8 8			
Lein Zaam Mastina	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz09		
Join Zoom Meeting	Meeting ID: 977 1778 57	708 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
Time	Description	Facil	litator
14.15 - 14.30 hrs	Keynote Lecture 01	Prof. Cristian Loja from the Universi	ty of Bucharest
Time	Paper ID	Title	
14.30 - 14.45 hrs	ICSBE_280	A COMPARATIVE LIFE CYCLE ASSESSMENT OF E-THEIS AND BOUND THESIS USING THE GATE-TO-GATE APPROACH Y Suwarkka, K Kumareswara, M Atapattu	
14.45 - 15.00 hrs	ICSBE_290	ENHANCING URBAN FLOOD RESILIENCE THROUGH PERVIOUS CONCRETE: INNOVATIVE SOLUTIONS FOR SUSTAINABLE URBAN LANDSCAPING M.N.M. Shahmy, D.D. Dias and U.R.S. Fernando	
15.00 - 15.15 hrs	ICSBE_292	M.N.M Shahmy, D.D Dias and U.B.S Fernando 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 W.M.S.S. Dias, and D.M.L. Dissanayake	
15.15 - 15.30 hrs	ICSBE_299	GREEN IMPRESSIONS: UNDERSTANDING URBAN VEGETATION PERCEPTIONS IN UNESCO HERITAGE CITY KANDY D.M.L. Dissanayake, D.R.P. Godamunna	
15.30 - 15. 45 hrs	ICSBE_301	ASSESSING THE LEVEL OF CONNECTIVITY OF THE RIVERSCAPE STRUCTURE: A SPATIAL GRAPH-BASED APPROACH D.D. Weerakkody, J.C.P.H. Gamage, E. R. K. Chandrathilaka, Kajanan Selvaranjan	
15.45 - 16.00 hrs	ICSBE_249	STUDY ON THE CONTRIBUTION PLACE ATTACHMENTS IN URBAR.R Samaratunge, D. De Silva, J. Wi	AN CONTEXT
16.00 - 16.15 hrs	ICSBE_05	THE ROLE OF COMMUNITY PAR REDUCTION INITIATIVES WITH BATTICALOA CITY Y. Arthy	

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) H.A.S.U. Geethanjalee, and D.M.Y. Abeywardhana	
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 R.T.L.S. Rajapaksha, N.L. Rubasin Gamage, H.P. Munasinghe	
17.15 - 17.30 hrs	ICSBE_256	MACHINE LEARNING APPROACH FOR MODELING MODE CHOICE DECISIONS OF SRI LANKAN TRAVELLERS W.D Lakmini, I.C.S Jayasena, W.R.S.S Dharmarathna, U. Jayasinghe	
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 W.G.K.D.Jayalath, T.A.N.T.Perera, G.Y.Jayasinghe	
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 K.A.S. Rathugamage, D. De Silva, J. Wijesundara	
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 D.M.L. Dissanayake, and G.K.C.R. Kapuge	

Room 4 (Online)/ Session 01

Water Resource Planning and Pollution Control Session

Join Zoom Meeting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09		
John Zoom Weeting	Meeting ID: 985 6117 5	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
Time	Paper ID	Т	litle
09.00 – 09.15 hrs	ICSBE_30	WATER MANAGEMENT OF ROT POTTUVIL IRRIGATION DIVISION YKMRC Yapapatune, DA Ekanay 1,Eng.S.Tharshika	ON
09.15 – 09.30 hrs	ICSBE_78	UNRAVELING CLIMATOLOGIC. OF LONG-TERM PARAMETERS N.R. Josiah, D.P.C. Laknath	AL TRENDS: 40-YEAR ANALYSIS IN KIGALI, RWANDA
09.30 - 09.45 hrs	ICSBE_344	EFFECT OF IRRIGATION RESER SIMULATION IN DRY ZONE, SR Buddhi Suraweera, Kasun De Sil	I LANKA
09.45- 10.00 hrs	ICSBE_268	AI-BASED MACHINE LEARNING ALGORITHMS FOR WATER QUALITY ANALYSIS: A REVIEW R.M.L.S Rajapaksha, R.P.W.N Karunasiri, T.A.N.T Perera, Kosala Sirisena	
10.00 – 10.15 hrs	ICSBE_349		EMENT; A CASE STUDY BASED TORS IN MATARA DISTRICT, SRI

Room 4 (Online)/ Session 02

Geotechnical Engineering Session

Lain Zanna Mandina	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09		
Join Zoom Meeting	Meeting ID: 985 6117 501	11 Passcode : 979488	
Session chair 1	Dr. Basilia Adamadaha	Session Coordinator 1	Mr. Anjana Indunil
Session chair 1	Dr. Rasika Athapaththu	Session Coordinator 2	Mr. J A R Kavinda
Time	Paper ID		Title
11.30 - 11.45 hrs	ICSBE_13	INVESTIGATION OF GEOTECH EXPASNIVE SOIL STABILIZED QUARRY DUST T.B.C.H. Dissanayake, D. de S. Ud	O WITH FLY ASH AND
11.45 - 12.00 hrs	ICSBE_44	STABILITY ANALYSIS OF ROAD EMBANKMENT CONSTRUCTED BY TREATING MARGINAL SOILS WITH GEOPOLYMER BASED STABILIZERS Tharshsany, S. Shagiththiya, M.C.M Nasvi, J. Sangeetha	
12.00 - 12.15 hrs	ICSBE_112	PREDICTION OF COLLAPSE POTENTIAL OF SOILS USING ARTIFICIAL NEURAL NETWORK A.K.B.J. Aththanagoda, L.C. Kurukulasuriya	
12.15 - 12.30 hrs	ICSBE_127	COMPARISON OF IN-SITU STATE OF A TAILINGS DEPOSIT WITH RECONSTITUTED LABORATORY SPECIMEN STATES PGN Nayanthara, C Gallage, SSSD Biyanvilage, J Rajapakse, T Rowles, E Tuplin	
12.30 - 12.45 hrs	ICSBE_346	REVIEW OF RELIABILITY EVALUATION OF CROSS-HOLE SONIC LOGGING FOR BORED PILE INTEGRITY Y.A. Naotunna, N.H. Priyankara, D.M.K.N. Seneviratna	
12.45 - 13.00 hrs	ICSBE_19	ANALYSIS OF THE SHEAR BEHAVIOR OF STABILIZED SOIL-CONCRETE INTERFACE IN GEOTECHNICAL STRUCTURES W.A.W. Wijesingha, K.H.S.M. Sampath	
13.00 - 13.15 hrs	ICSBE_06	THE DRIEST END OF THE SOIL CURVE (SWCC) WAS DEVELO DEPTHS USING WP4C K.K.A. Shanika. Y.N.S. Wijewarda	
13.15 - 13.30 hrs	ICSBE_321	INVESTIGATION OF FOUNDA	TION PROTECTION MORTAR IHSTAND THE BEHAVIOR OF FINE

Room 4 (Online)/ Session 03

Sustainable Solutions Session

Join Zoom Meeting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09		
Join Zoom Meeting	Meeting ID: 985 6117 501	1 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
Time	Paper ID	Title	
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 W.M.R.T.Y. Wijekoon, R.L.H.L. Rajapakse	
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 Jeyapalu Jathushan, and V.P.A. Weerasinghe	
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 N. Fernando, Y.M.M De Silva	
15.00 - 15.15 hrs	ICSBE_41	A REVIEW: DEVELOPMENT TECHNIQUES FOR MUNICIPAL OPEN DUMPSITE IN DEVELOPING COUNTRIES K.G.S. Rukshan and Y.N.S. Wijewardana	
15.15 - 15.30 hrs	ICSBE_261	LONG SHORT-TERM MEMORY (ARTIFICIAL NEURAL NETWORK PREDICTION G.W.T.I. Madhushanka, M.T.R. Jaya	(ANN) FOR FLOOD

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
Time	Paper ID	Title	
09.00 - 09.15 hrs	ICSBE_42	ASSESSMENT OF SHEAR STRENGTH PROPERTIES OF DREDGED SAND P.L. Punchihewa, R.J.K.B.C. Ranathunga, A.M.R.G. Athapaththu	
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 V.S.S.D. Silva, and L.I.N. de Silva	
09.30 - 09.45 hrs	ICSBE_16	STRENGTH, SWELL AND COST BASED MIX OPTIMIZATION OF CEMENT AND FLY ASH TREATED EXPANSIVE SOILS A.M.S.N. Abeysinghe, L.C. Kurukulasuriya, M.C.M. Nasvi	
09.45 - 10.00 hrs	ICSBE_360	REVIEW OF LOAD SHARING MECHANISM OF PILED-RAFT FOUNDATION D.A.P.Prasad, and N.H.Priyankara	
10.00 -10.15 hrs	ICSBE_255	EFFECT OF GRID UNDER SLEEPER PAD ON SHEAR RESISTANCE AT SLEEPER-BALLAST INTERFACE H. G. S. Mayuranga, S. K. Navaratnarajah, C. S. Bandara and J. A. S. C. Jayasinghe	

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	Ti	itle
11.30 - 11.45 hrs	ICSBE_80	OPTIMIZATION AND SCALE-UP GRADE GRAPHITE FROM SRI LA RECHARGEABLE LITHIUM-ION H.M.H.D.K. Naranpanawa, T.H.N.G K.W.S.N. Kumari, H.W.M.A.C. Wijay	NNKAN VEIN GRAPHITE FOR BATTERIES . Amaraweera, N.W.B. Balasooriya, vasinghe
11.45 - 12.00 hrs	ICSBE_89	ELECTROCHEMICAL PERFORMANCE OF CuO ANODE MATERIAL SYNTHESIZED BY CHEMICAL PRECIPITATION METHOD FOR RECHARGABLE LITHIUM-ION BATTERIES W. T. R. S. Fernando, T. H. N. G. Amaraweera, H. W. M. A. C. Wijayasinghe	
12.00 - 12.15 hrs	ICSBE_146	BIO CHAR DERIVED FROM WASTE BIOMASS SOURCES AS A FILLER FOR NATURAL RUBBER: A REVIEW M.G.D. Sanduranga, R.D.H. Iresha, and C.S. Kalpage	
12.15 - 12.30 hrs	ICSBE_274	DEVELOPMENT OF UV PROTECTIVE COATINGS TO RETAIN THE COLOR OF GARMENTS USING INORGANIC UV ABSORBERS D.P.Lokuwithana, and L.Palliyaguru	
12.30 - 12.45 hrs	ICSBE_252	DETERMINING THE PRECISE PHYSICAL PROPERTIES OF RUBBER AGGREGATE DERIVED FROM DISCARDED TIRES B.G.V. Sanjaya, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara, S. Venkatesan, R.J. Gravina	
12.45 - 13.00 hrs	ICSBE_357	EXPLORING PERCEPTIONS OF SERVICE DELIVERY IN A LOCAL MUNICIPALITY IN SOUTH AFRICA E.S. Ngcobo, C. Gerwel Proches, N. Singh	
13.00 – 13.15 hrs	ICSBE_359	STRENGTHENING TSUNAMI PRI ASSESSMENT OF THE ACTION P RECOGNITION PROGRAMME K.K.C.L. Kannangara, C.S.A. Siriwa	
13.15 – 13.30 hrs	ICSBE_39	DURABILITY OF ORDINARY CO MANUFACTURED SAND AND OF M.G.S. Asangi, K.M.C. Konthesingho W.P.H.P. Weerasinghe, H.M.S.C. Ra	NCRETE MADE OF FFSHORE SAND 1, A. Branavan, I.R. Upasiri,

Room 6 (Hybrid)/ Session 01

Circular Economy Session

		·	
Join Zoom Mosting	https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWlBQT09		
Join Zoom Meeting	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	Sourier Constitute 2	M. Wilei C. ada an
Session chair 3	Ms. Anjulee Boralessa	Session Coordinator 2	Ms. Vishmi Gunathunga
Time	Description	Facilitator	Title
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
Time	Paper ID	Tir	tle
09.40 – 09.55 hrs	ICSBE_09	EXPLORING CIRCULAR ECON THE BUILT ENVIRONMENT: I STUDY ANALYSIS Olivia Ho, Usha Iyer-Raniga, Ka Mahanama Dissanayaka	NSIGHTS FROM CASE
09.55 – 10.10 hrs	ICSBE_22	SUSTAINABLE CONSTRUCTION CONNECTIVITY AND ASSET SRI LANKA W.M.S.N. Weerasekara, K.K.K. S.	MANAGEMENT PROJECT,
10.10 – 10.25 hrs	ICSBE_62	GHG EMISSIONLESS OPEN DI ECONOMY APPROACH S. Himanujahn, W.A.K.S. Fonseka De Silva, R.A.K.K. Perera, M. Vit	UMPSITE: A CIRCULAR a, D.H.P. Kaushalya, M.B.T.D.
10.25 – 10.40 hrs	ICSBE_278	PRIORITIZING GREEN HUMA MANAGEMENT PRACTICES TO ORGANIZATIONAL SUSTAIN PERSPECTIVES: A CONCEPTU Mafruha Hossain, and Mohamma	N RESOURCE FOWARDS ACHIEVING ABILITY FROM EXPERTS' JAL PAPER
10.40 – 10.55 hrs	ICSBE_47	A STUDY ON ADAPTATIONS CONCEPTS IN CONSTRUCTION J.M.D.S.D. Jayamanna, S.N.C.M	ON INDUSTRY OF SRI LANKA

Room 6 (Hybrid)/ Session 02

Circular Economy Session

Join Zoom Meeting	https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWlBQT09 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		
Time	Paper ID	Title	
11.45 - 12.00 hrs	ICSBE_18	RESOURCE MANAGEMENT IN IRRIGATION PROJECTS OF SRI LANKA USING PRINCIPLES OF CIRCULAR ECONOMY K.A.G.G.K. Kumarasinghe, and K. K. K. Sylva	
1		K.A.G.G.K. Kumarasinghe, and K. K	
12.00- 12.15 hrs	ICSBE_136	K.A.G.G.K. Kumarasinghe, and K. K APPLICATION OF CIRCULAR EC CONSTRUCTION WASTE MANAG DADALLA, SRI LANKA B M M I Balasooriya and, K K K Sylv	C. K. Sylva CONOMIC CONCEPTS AT GEMENT (COWAM) PROJECT,
12.00- 12.15 hrs 12.15- 12.30 hrs	ICSBE_136 ICSBE_266	APPLICATION OF CIRCULAR EC CONSTRUCTION WASTE MANA DADALLA, SRI LANKA	CONOMIC CONCEPTS AT GEMENT (COWAM) PROJECT,

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