

The 14th International Conference on Sustainable Built Environment -2023



The Kandy Conference

PROGRAM BOOK

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. Ajith 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

16 th December 2023					
	Room 1 (Hybrid)/ Session 01				
	T	Call Building Session			
https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3			Aa40PR7tH3UoxOZUiic1xK.1		
Join Zoom Meeting	Meeting ID: 881 0114	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 A ENGINEERING R.M.H Liyanage, Shiromal Fernan	PPLICATION IN ARCHITECTURE AND do, 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 H.A.D.S. Buddika, N.S. Peiris, B.R.D. Peiris			
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		RNAL PRESSURE VARIATION OF ERFERING EFFECTS		

16 th December 2023				
	Room 1 (Hybrid)/ Session 02			
IESL Special Session				
	https://us06web.zoom	n.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1		
Join Zoom Meeting	Meeting ID: 881 0114	4 7875 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		
		Prof. Janaka Ruwanpura (Moderator)		
12.20 - 12.45 hrs	Panel Discussion	Prof. Ranjith Dissanayake, Prof. Priyan Mendis, Eng. Sarath Gamini, Prof. Janaka Ekanayaka		
12.45 – 12.50 hrs	Closing remarks	1		

16 th December 2023					
	Room 1 (Hybrid)/ Session 03				
Concrete Technology and High-Performance Concrete					
Join Zoom Mosting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1				
Join 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	Prof. Hiran Yapa			
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 <i>M.Mayooran, J.C.P.H.Gamage, E.R.K.Chandrathilaka</i>			
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		UCTION AND DEMOLITION WASTE S IN CONCRETE PRODUCTION BY		

16 th December 2023					
	Room 1 (Hybrid)/ Session 04				
Susta	inable Constr	uction and Green Build	ling Techniques		
Join Zoom Meeting	Join Zoom Meeting <u>https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1</u>				
	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	Dr. Ajith Thambo			
16.40- 17.05 hrs	Keynote by	Prot I II Ave	NET-ZERO CARBON AND HEALTHY BUILDINGS		
Time	Paper ID		Title		
17.05 - 17.20 hrs	ICSBE_3	SIMULATION OF TIME DEPEND RC ELEMENTS S.P.D. Danushka, J.M.C.I. Jayasingh	ENT BEHAVIOUR OF RESTRAINED		
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		IAL AND LAND-USE IMPLICATIONS R SECTOR IN SRI LANKA		

16 th December 2023					
Room 2 (Hybrid)/ Session 01					
	RMIT Sri Lanka Joint Research Session				
Join Zoom Meeting	https://zoom.us/j/97144657867?pwd=dm5v	Zzl4c3BLRVB2bXc2QmV1MHhEZz09			
	Meeting ID: 971 4465 7867 Passcode: 8162	212			
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	Panel Discussion	UoP: Dr. S. K. Weragoda Director/Joint Research and Demonstration Center for Water Technology (JRDC),			
10.20 – 10.35 hrs	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				

	16 th	December 2023		
Room 2 (Hybrid)/ Session 02				
	SECRA/	FOUNTAIN Session		
Join Zoom Meeting	https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			
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. Champa Nawarathne	Session Coordinator 2	Mr. Ravindu Udara	
Time	Description	Fa	cilitator	
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	A STUDY IN GALLE DISTRIC	CLIMATE CHANGE AND TS FOR PAST THREE DECADES – T FROM 1992 TO 2022	
14.50 - 15.05 hrs	ICSBE_283	PLC Perera, M Ranagalage, G INVESTIGATING HOW GREE PARTICULATE MATTER CON STREET ENVIRONMENTS H.A.T.N. Perera, K.G.N.H. Weer G.Y. Jayasinghe	N INFRASTRUCTURE AFFECTS NCENTRATIONS IN URBAN	
Time	Description	Fa	cilitator	
15.05 - 15.20 hrs	Key Lecture 02	Prof. Ranjith Dissanayake		
15.20 - 15.35 hrs	Key Lecture 03	Eng. Shiromal Fernando		
Time	Paper ID		Title	
15.35 - 15.50 hrs	ICSBE_293		NATION: UNDERSTANDING THE HEALTH IMPACTS ON WATER	

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	Facilitator
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

16 th December 2023				
	Room 3 (Hybrid)/ Session 01			
	Structural Engineering Session			
Join Zoom	https://zoom.us/j/977177	85708?pwd=QU5FMnpUNk44elBh	WUhsVGVoZWJ3Zz09	
Meeting	Meeting ID: 977 1778 57	708 Passcode: 182599		
Session Chair 1	Prof. Upul Attanayake	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		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 <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		
10.15 – 10.30 hrs	ICSBE_275	SUITABILITY ASSESSMENT C S Bandara, P Rajeev, E Gad	F COMPOSITE CROSSARMS	

16 th December 2023				
	Room 3 (Hybrid)/ Session 02			
	Sustainal	ble Agriculture Session		
Join Zoom Meeting	https://zoom.us/j/9771778	5708?pwd=QU5FMnpUNk44elBhWU	hsVGVoZWJ3Zz09	
Join Zoon Weeting	Meeting ID: 977 1778 570	08 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	Т	itle	
11.30 - 11.45 hrs	ICSBE_84	EVALUATION OF ANTIMICROB EFFECTS OF CHITOSAN-BASED FILMS CONTAINING CINNAMO ESSENTIAL OIL FOR FOOD PAC K.G. Kaushani, N.P. Katuwavila, R. G. Priyadarshana	EDIBLE, BIODEGRADABLE N (Cinnamomum zeylanicum) KAGING	
11.45 - 12.00 hrs	ICSBE_52	DESIGN AND DEVELOPMENT O PEST CONTROL AND NON-HEA NUTMEG CULTIVATION IN THE LANKA J.K.R.L.Weerawardhana, W.M.H.M.	LTHY TREE IDENTIFICATION IN E CENTRAL PROVINCE OF SRI	
12.00- 12.15 hrs	ICSBE_254	SUSTAINABLE TEA PLANTA ON THE SUSTAINABLE STRA OVERCOME THE IMPACT OF WELIMADA TEA ESTATES N. M. S. U. Nissanka		
12.15- 12.30 hrs	ICSBE_219	GREEN FINANCING AS A MEAS AMONG FISHERIES COMMUNIT		
12.30 - 12.45 hrs	ICSBE_220	BUSINESS CONTINUATION MEC SMALLHOLDERS: BUILDING RE INDUCED DISASTERS <i>M.G.D.N.M. Wijerathne, D.A.M. De</i>	ESILIENCE ON CLIMATE-	
12.45 - 13.00 hrs	ICSBE_217	SMALL-SCALE FISH PROCESSIN THEIR VULNERABILITY TO CLI W.B.G.S. Welihinda, D.A.M. De Silv	MATE HAZARDS	
13.00-13.15 hrs	ICSBE_358	DEVELOPMENT OF LIGHTWEIG AGGREGATES FORMED USING THE DRINKING WATER TREAT Sajani H. Kolambage, Dimalka R.M. Pradeep Gajanayake	SLUDGE DISCHARGED FROM MENT PROCESS	
13.15-13.30 hrs	ICSBE_65	CHARACTERISTICS OF ESSENT SPOUTED BED DRIED BLACK P. G.K. Jayatunga, B.M.W.P.K. Amara	EPPER	

16 th December 2023					
	Room 3 (Hybrid)/ Session 03				
	Fire Safet	y Engineering Sessio	on		
Lain Zoom Masting	https://zoom.us/j/9771778570	8?pwd=QU5FMnpUNk44elBhWU	JhsVGVoZWJ3Zz09		
Join Zoom Meeting	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		
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 FI CONSTRUCTIONS R.L.P. Godakandage, K. T. Q. N J.C.P.H. Gamage	RE SAFETY IN MODULAR		
15.05 - 15.20 hrs	ICSBE_36	AWARENESS ON THE FIR BUILDINGS IN SRI LANK THTN Premanath, KMC Konthe	A esingha, IR Upasiri, HMSC Rathnasiri, emanath, KMC Konthesingha, IR		
15.20 - 15.35 hrs	ICSBE_284	INVESTIGATE THE THER	MAL RESPONSE OF DIFFERENT DF GLASS PANELS UNDER FIRE L APPROACH		
15.35- 15.50 hrs	ICSBE_400	ACTIVE AND PASSIVE FI OFFICE BUILDINGS	RE SAFETY SIMULATION FOR B. S. Fernando, Priyan Mendis		
15.50- 16.05 hrs	ICSBE_296	FIRE PERFORMANCE OF MATERIALS FOR BUILDI APPROACH	POLYMER IN COMPOSITE NG CLADDINGS: A NUMERICAL he, D. Robert, C. S. Bandara, E.		

		16 th December 2023	
	Roor	n 3 (Hybrid)/ Session 04	,
An Invest	•	Applicability of the Biom R and Social Enterprises	
Join Zoom Meeting	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz09		
John Zoohn Wreeting	Meeting ID: 977 1778	8 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	Faci	litator
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	Т	ïtle
17.25 - 17.40 hrs	ICSBE_403	AN INVESTIGATION OF THE APPI CONCEPTS IN SOCIAL ENTERPRIS G.R.S.D. Gamage, K. Hemachandra, F Amaratunga, R. Haigh	SES' (ES) RESILIENCE
17.40 - 17.55 hrs	ICSBE_404	REVIEW OF NATURE INSPIRED SO REDUCTION Panchali Dias . Nuwan Dias . Ranjith .	
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 th December 2023	
	Roo	m 6 (Hybrid)/ Sessio	n 01
	Constru	uction Management	Session
	https://zoom.us/j/972	41148173?pwd=WGpPY2dXR1Z	4RURJWFVhRW5rUWlBQT09
Join Zoom Meeting	Meeting ID: 972 411	4 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
Time	Paper ID		Title
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	ICSBE_157	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 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	

16 th December 2023						
	Room 6 (Hybrid)/ Session 02					
	Constru	uction Management	Session			
https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWIBQT09			Z4RURJWFVhRW5rUWlBQT09			
Join Zoom Meeting	Meeting ID: 972 411	4 8173 Passcode: 123782				
Session Chair 1	Dr. Sahan Bandara	Session Coordinator 1	Ms. Sajani Kolombage			
Session Chair 2	Dr. Chathurani Chandrasiri	Session Coordinator 2	Ms. Vishmi			
Time	Paper ID	Title				
11.30 - 11.45 hrs	ICSBE_347	UNLEASHING POTENTIAL O.M. Hasaranga, C. Jayasingh	WITH GLASS WASTE IN MASONRY ne, 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>I.H.N. Chathuranga, C.S.A. Siriwardana, I.E. Ariyaratne</i>				

		16 th December 2023				
	Room 6 (Hybrid)/ Session 03					
	Constr	ruction Management	Session			
Join Zoom Meeting	https://zoom.us/j/97	241148173?pwd=WGpPY2dXR1Z	4RURJWFVhRW5rUWIBQT09			
Join Zoon Meeting	Meeting ID: 972 41	14 8173 Passcode :123782				
Session Chair 1	Dr. Chathurangi Jayakodi	Session Coordinator 1	Ms. Sajani Kolombage			
Session Chair 2	Dr. Lasitha Rathnayake	Session Coordinator 2	Ms. Vishmi			
Time	Paper ID		Title			
14.15 - 14.30 hrs	ICSBE_74	IMPACTS OF URBAN SPRAWL ON WETLAND LAND COVER DYNAMICS: A SPATIAL AND TEMPORAL ANALYSIS FOR THE CASE OF COLOMBO B. Rathnayake, C. Jayasinghe, P. Perera				
14.30 - 14.45 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				
14.45 - 15.00 hrs	ICSBE_168	NEW WORK STRATERGIES TO OVERCOME THE IMPACT OF UNFORSEEN DISRUPTIVE EVENTS FOR CONSTRUCTION CONSULTANTS S Hettiarachchi, C Allis, Y.K Delpachitra				
15.00 - 15.15 hrs	ICSBE_225	A STUDY ON THE MISSED OPPORTUNITIES THROUGH THE SRI LANKAN CONSTRUCTION INDUSTRY TOWARDS A SUSTAINABLE ECONOMIC GROWTH WDBJ Jeewananda, SD Jayasooriya				
15.15 - 15.30 hrs	ICSBE_113	ECONOMIC AND ENVIRONMENTAL FEASIBILITY OF PRECAST CONCRETE WALLING SYSTEMS IN MULTI-STORY BUILDING CONSTRUCTION – A LIFE CYCLE PERSPECTIVE Christeen S.K.P, Jayasooriya V.M				
15.30- 15.45 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				
15.45- 16.00 hrs	ICSBE_109	TOWARD THE SMART COM	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 th December 2023						
	Room 5 (Physical)/ Session 01					
	Susta	inable Transport Ses	sion			
Session Chair 1	Dr. Thissa 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 FO DURABLE ROAD PAVEMENT C. Gallage, K. Wimalasena , A. P.				
09.55 – 10.10 hrs	ICSBE_285	A PRICING POLICY FOR VEHI L.S.M. Silva, A.S. Kumarage, M. 1	CLES AND FUEL FOR SRI LANKA 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 <i>M.A.K.V Warnakulasooriya, B. Fernando</i>				
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				

Room 5 (Physical)/ Session 02

Artificial Intelligence for Sustainable Development: Challenges and Opportunities

		11		
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	Title	
14.15- 14.30 hrs	Key Lecture 01	Prof. Roshan Godaliyadda		
14.30 - 14.45 hrs	Key Lecture 02	Prof. Vijitha Herath		
Time	Paper ID		Title	
14.45 - 15.00 hrs	ICSBE_286	TRANSFORMING HOUSING RETROFIT: THE POTENTIAL IMPACT OF ARTIFICIAL INTELLIGENCE <i>C, Panakaduwa, S,P, Coates, M, Munir</i>		
15.00 - 15.15 hrs	ICSBE_260	ENHANCING THE FLOOD MODELING ACCURACY UNDER VERYING SPATIAL SCALE FINER RESOLUTION WEATHER DATA Susantha Wanniarachchi, Ranjan Sarukkalige		
15.15 - 15.30 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>		
		Prof. Janaka Ekanayake (Moderator)		
15.30- 16.00 hrs	Panel discussion	Prof. Roshan Godaliyadda		
		Prof. Parakrama Ekanayake		
		Dr. Vijitha Herath		

Room 7 (Physical)/ Session 01

Session Chair 1	Prof. Chintha Jayasinghe	Session Coordinator 1	Ms. Isuri Sewwandi	
Session Chair 2	Dr. I. M. S. Sathyaprasad	Session Coordinator 2	Ms. Sadeepa Gamage	
Time	Paper ID	Title		
09.00 - 09.15 hrs	ICSBE_38	POTASSIUM HYDROXIDE AS MATERIALS	YMER PASTE USING BOTTOM ASH AND THE PRIMARY POLYMERIZATION onthesingha, A. Branavan, I.R. Upasiri,	
09.15 - 09.30 hrs	ICSBE_39	DURABILITY OF ORDINARY CONCRETE MADE OF MANUFACTURED SAND AND OFFSHORE SAND 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		
09.30 - 09.45 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		
09.45 - 10.00 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		
10.00 -10.15 hrs	ICSBE_68	CIRCULAR ECONOMIC APPLICATIONS IN SRI LANKAN ROAD CONSTRUCTION INDUSTRY A.M.U.D.Palukadawala, S. M. Dissanayaka		
10.15 -10.30 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		
10.30 -10.45 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		
10.45 -11.00 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. Abeysinghe, W.P.Madhushani Perera</i> <i>G.A.H.K.M. Gamlath</i>		

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	Т	itle
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_405	Chathushika Ekanayake1*, Priyan Mendis2, Shiromal Fernando3, Massoud Sofi2	

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. Bandara1, 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	Ti	tle
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. Karunarathna, S.M.A. Nanayakkara</i>	
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	

	1	6 th December 2023		
	Room	4 (Online)/ Session	n 01	
	Coast	al Engineering Sess	sion	
Jain Zoom Mosting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZ1N6Zz09			
Join Zoom Meeting	Meeting ID: 985 6117 5	5011 Passcode : 979488		
Session Chair 1	Dr. 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 ANALYS BASIN: A CASE STUDY OF D. P. C. Laknath, I.G.I. K. Kur		
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		

16 th December 2023				
	Roo	m 4 (Online)/ Session 02		
	Cl	imate Change Session		
Lein Zoom Mosting	https://zoom.us/j/985	61175011?pwd=L0JpdVhtay9Dbk40VFM	<u>Axd3JkZIN6Zz09</u>	
Join Zoom Meeting	Meeting ID: 985 611	7 5011 Passcode :979488		
Session Chair 1	Dr. H.K.B.S. Chamara	Session Coordinator 1	Mr. Anjana Indunil	
Session Chair 2	Dr. Dhanushika 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 21 st CENTURY <i>B. Premaratne, F. Inam</i>		

16 th December 2023				
	Roo	m 4 (Online)/ Sessio	n 03	
Sust	ainable Constr	uction and Green B	uilding Techniques	
Join Zoom Meeting	https://zoom.us/j/985	61175011?pwd=L0JpdVhtay9Dbl	k40VFMxd3JkZlN6Zz09	
Join Zoon Meeting	Meeting ID: 985 611	7 5011 Passcode: 979488		
Session Chair 1	Dr. Shyanaka Dhananjaya	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 <i>P.L.L.T.D. Alwis, D. Nanayakkara</i>		
15.30 - 15.45 hrs	ICSBE_343	THE EXPRESSION OF HOM MANIFESTATION IN THE S D.M.C.S.Pieris, J Wijesundara		

16.00 – 16.30 hrs		Tea Break		
Session Chair 1	Dr. Rajib Malik	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	ECOSYSTEM; THE CASE OF BAHII 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

			3C 351011
Join Zoom Meeting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1 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	Dr. P. B. G. Dissanayake	
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 <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.</i> <i>Somarathna, D. Mohotti</i>	
09.55 – 10.10 hrs	ICSBE_131	Somarannia, D. Mononi 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	
10.25 – 10.40 hrs	ICSBE_117	R.K.S. Maleesha, J.C.P.H. Gamage, E.R.K. Chandrathilaka 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. Jagoda1*, K.M.C. Konthesingha 1, S.M.A. Nanayakkara 2, P.M.W.P. Kumara, H.M.S.C. Rathnasiri, I.R. Upasiri, W.P.H.P. Weerasinghe1, 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 1,2*, B. Kiriparan	

17 th December 2023				
Room 1 (Hybrid)/ Session 02				
Bridge Design Construction and Maintenance (Organized by the IABMAS Sri Lanka Group)				
Lin Zoon Mosting	https://us06web.zoom.us/j/88101147875?pwd=S2qhrrM0Aa40PR7tH3UoxOZUiic1xK.1			
Join Zoom Meeting	Meeting ID: 881 0114 7875 Passcode: 672369			
Time	Description	Facilitator		
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		

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 Zooni Weeting			
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 <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 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	

17 th December 2023				
Room 2 (Hybrid)/ Session 01				
Water Pollution and Water Treatment Technologies Session				
https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			2QmV1MHhEZz09	
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. Panduka Neluwala	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 <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 S.V. Chandeepa, C.S. Kalpage		

17 th December 2023				
	Room 2 (Hybrid)/ Session 02			
Wa	iter Resources Pla	nning and Pollution Co	ontrol Session	
https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			QmV1MHhEZz09	
Join Zoom Meeting	Meeting ID: 971 4465 7867	7 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. Gamlath1, 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 <i>P.L.L.N. Perera, N.G.P.B. Neluwala, J.J.Wijetunge</i>		

	17 th December 2023 Room 2 (Hybrid)/ Session 03			
Water Resources Planning and Pollution Control Session				
Join Zoom Meeting	https://zoom.us/j/97144657867?pwd=dm5vZzl4c3BLRVB2bXc2QmV1MHhEZz09			
Join Zoom Meeting	Meeting ID: 971 4465 786	7 Passcode: 816212		
Session Chair 1	Prof. W. M. S. A. 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 M.K.D.K.C. Madapatha, W.A.I. Madhawa, M.M.G.T. De Silva		
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 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 <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 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 BEHAVIOUR OF FLOW PATTERNS WITH THE PRESENCE OF R PUMP HOUSE, RAISING OF FLOOD BUNDS USING 2D HYDRAULIC NUMERICAL MODELING S.M.Hewavidana, K. Subasinghe		
16.00 – 16.15 hrs	ICSBE_355	MODELLING STORM WATER MANAGEMENT SYSTEMS IN RESPONSE TO DIFFERENT RAINFALL AND LAND USE PATTERNS Pramudika W.O.H, Ubhayaratna K.M.M, Gunawardana W.C.T.K.		

17th December 2023

Room 3 (Hybrid)/ Session 01

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

	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz09		
Join Zoom Meeting	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 nitritation and partial denitrification with anammox
Time	Paper ID	Title	
09.20 – 09.35 hrs	ICSBE_370	DETECTION OF CRYPTOSPORIDIUM AN INFLUENT AND EFFLUENT WATER IN S TREATMENT PLANTS ALONG THE MAH KANDY DISTRICT P.T.A. Thilakarathna, S. Athukorala, F. Faree Premachandra, M. Makehelwela3, B.R. Ferna Wang, Zhang Yu, Min Yang and S.H.P.P. Kard	ELECTED WATER AWELI RIVER IN d, R.N. Jinadasa, T.N. ndo1, S.K. Weragoda, Yawei
09.35 -09.50 hrs	ICSBE_371	Wang, Zhang Yu, Min Yang and S.H.P.P. KarunarameDIVERSITY AND ANTIBIOTIC RESISTANCE OF HETEROTROPHICBACTERIA IN DRINKING WATER: A STUDY ALONG THEMAHAWELI RIVER WATER TREATMENT PLANTS FROMKOTAGALA TO BALAGOLLAP.T.A. Thilakarathna, S. Athukorala, F. Fareed, R.N. Jinadasa, T.N.Premachandra, M. Makehelwela, B.R. Fernando, S.K. Weragoda, YaweiWang, Zhang Yu, Min Yang and S.H.P.P. Karunaratne	
09.50 – 10.05 hrs	ICSBE_372	EXPERIENCES OF CHINESE ECO-INDUSTRIAL PARK DEVELOPMENT	
10.05 – 10.20 hrs	ICSBE_373	EFFECTS OF DRINKING WATER FLUORI BOVINE SERUM BIOCHEMICAL PROPER PREVALENCE AREAS IN SRI LANKA UN HEALTH APPROACH H.M.S.Wasana, G.D.R.K.Perera, I.A.M.P. Ilep L. Jayarathne, Youngsong Wei	TIES IN HIGH CKDU DER ONE

10.20 – 10.35 hrs	ICSBE_374	OPTIMIZATION STRATEGY OF GRAVITY-DRIVEN MEMBRANE FILTRATION BASED ON MICROBIAL RISK CONTROL IN PERMEATE Qingke Yuan, Hao Zhao, Yanfeng Liu, Ying Meng, Fubo Luan
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 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
10.50 - 11.05 hrs	ICSBE_376	IMPACT OF ORGANIC FERTILIZER RATIOS ON MICROBIAL COMMUNITIES IN AGRICULTURAL RUNOFF: A FIELD 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
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 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 <i>T.I.P. Wimalaweera, F. Zuo, Q.Tang, K.B.S.N. Jinadasa, S.K. Weragoda, T.</i> <i>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 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 <i>M.D.D.R. Gunathilake, Y.D. Kahatapitiya, B.K.R.S. Wanshanatha,</i> <i>R.M.C.P. Rathnayaka, T.P. Malalagama, M. Makehelwala, S.K.</i> <i>Weragoda, Binghui Tian</i>
12.40 - 12.50 hrs	ICSBE_104	IMPORTANCE OF STUDY ON BIOFILM CHARACTERIZATION WITHIN WATER DISTRIBUTION NETWORKS

17 th December 2023					
Room 3 (Hybrid)/ Session 03					
	Urban Landscape Ecological Planning Session				
Join Zoom Meeting	https://zoom.us/j/97717785708?pwd=QU5FMnpUNk44elBhWUhsVGVoZWJ3Zz09				
Join Zoom Weeting	Meeting ID: 977 1778 5708	Passcode: 182599			
Session chair 1	Prof. Lalitha Dissanayake	Session Coordinator 1	Mr. Dilan Danushka		
Session chair 1	Professor 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 Universit	y of Bucharest		
Time	Paper ID	Title			
14.30 - 14.45 hrs	ICSBE_280	A COMPARATIVE LIFE CYCLE A BOUND THESIS USING THE GAT Y Suwarkka, K Kumareswara, M Atap	E-TO-GATE APPROACH		
14.45 - 15.00 hrs	ICSBE_290	ENHANCING URBAN FLOOD RES CONCRETE: INNOVATIVE SOLU URBAN LANDSCAPING M N M Shahmy, D D Dias and U B S	TIONS FOR SUSTAINABLE		
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: UNDERST PERCEPTIONS IN UNESCO HERIT			
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 URBA R.R Samaratunge, D. De Silva, J. Wij.	N 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) <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</i> , <i>N.L. Rubasin Gamage</i> , <i>H.P. Munasinghe</i>
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 K.B Seenapatabendige
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

17 th December 2023					
	Room 4 (Online)/ Session 01				
Wa	ater Resource Pla	nning and Pollution	Control Session		
Lain Zoom Masting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09				
Join Zoom Meeting	Meeting ID: 985 6117 501	1 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	Title			
09.00 – 09.15 hrs	ICSBE_30	WATER MANAGEMENT OF ROTTAI TANK SCHEME IN POTTUVIL IRRIGATION DIVISION YKMRC Yapapatune, DA Ekanayake, PDS Senevirathne 1,Eng.S.Tharshika			
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. Laknath</i>			
09.30 – 09.45 hrs	ICSBE_344	EFFECT OF IRRIGATION RESERVOIRS ON STREAMFLOW SIMULATION IN DRY ZONE, SRI LANKA Buddhi Suraweera, Kasun De Silva			
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,</i> <i>Kosala Sirisena</i>			
10.00 – 10.15 hrs	ICSBE_349	Kosala Sirisena BIODEGRADABILITY INDEX (BDI) AS AN INDICATOR FOR EFFLUENTS QUALITY MEASUREMENT; A CASE STUDY BASED ON DIFFERENT INDUSTRY SECTORS IN MATARA DISTRICT, SRI LANKA			

17 th December 2023				
Room 4 (Online)/ Session 02				
	Geotech	nical Engineering Sessi	on	
Join Zoom Mosting	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09			
Join Zoom Meeting	Meeting ID: 985 6117 501	1 Passcode : 979488		
Session chair 1	Dr. M. C. M. Nasvi	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 GEOTECHN EXPASNIVE SOIL STABILIZED V QUARRY DUST T.B.C.H. Dissanayake, D. de S. Uda	WITH FLY ASH AND	
11.45 - 12.00 hrs	ICSBE_44		D EMBANKMENT CONSTRUCTED LS WITH GEOPOLYMER BASED	
12.00 - 12.15 hrs	ICSBE_112	PREDICTION OF COLLAPSE PO ARTIFICIAL NEURAL NETWOR A.K.B.J. Aththanagoda, L.C. Kuruku	TENTIAL OF SOILS USING K	
12.15 - 12.30 hrs	ICSBE_127	RECONSTITUTED LABORATOR	COMPARISON OF IN-SITU STATE OF A TAILINGS DEPOSIT WITH RECONSTITUTED LABORATORY SPECIMEN STATES PGN Nayanthara, C Gallage, SSSD Biyanvilage, J Rajapakse, T	
12.30 - 12.45 hrs	ICSBE_346	REVIEW OF RELIABILITY EVAI LOGGING FOR BORED PILE INT Y.A. Naotunna, N.H. Priyankara, D.		
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	USING WP4C	WATER CHARACTERISTICS ED FOR DIFFERENT SOIL DEPTHS a, H.M.S.K, Herath, L.W. Galagedara	
13.15 - 13.30 hrs	ICSBE_321		ON PROTECTION MORTAR LAYER THE BEHAVIOR OF FINE	

17 th December 2023				
	Room	n 4 (Online)/ Session 03		
	Sustai	nable Solutions Session		
L'Z M	https://zoom.us/j/98561175011?pwd=L0JpdVhtay9Dbk40VFMxd3JkZlN6Zz09			
Join Zoom Meeting	Meeting ID: 985 6117 50	11 Passcode : 979488		
Session chair 1	Prof. Senani Wijayawardhana	Session Coordinator 1	Mr. Anjana Indunil	
Session chair 1	Dr. Udayagee Kumaeasinghe	Session Coordinator 2	Mr. J A R Kavinda	
Time	Paper ID	Tit	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		
14.30 - 14.45 hrs	ICSBE_196	W.M.R.T.Y. Wijekoon, R.L.H.L. Rajapakse 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 WASTE COLLECTORS' PLIGHT AM N. Fernando, Y.M.M De Silva	-DEPTH STUDY OF INFORMAL	
15.00 - 15.15 hrs	ICSBE_359	STRENGTHENING TSUNAMI PREPAREDNESS IN SRI LANKA: AN ASSESSMENT OF THE ACTION PLAN OF TSUNAMI READY RECOGNITION PROGRAMME		
15.15 - 15.30 hrs	ICSBE_41	A REVIEW: DEVELOPMENT TECH	K.K.C.L. Kannangara, C.S.A. Siriwardana, C. Liyanarachchige A REVIEW: DEVELOPMENT TECHNIQUES FOR MUNICIPAL OPEN DUMPSITE IN DEVELOPING COUNTRIES K.G.S. Rukshan and Y.N.S. Wijewardana	
15.30 – 15.45 hrs	ICSBE_261	LONG SHORT-TERM MEMORY (LS ARTIFICIAL NEURAL NETWORK (G.W.T.I. Madhushanka, M.T.R. Jayasin	(ANN) FOR FLOOD PREDICTION	

17th December 2023

Room 5 (Physical)/ Session 01

Geotechnical Engineering Session

8 8				
Session chair 1	Dr. Chandana Kurukulasuriya	Session Coordinator 1	Mr. Kumudu Prabodya	
Session chair 1	Dr. Nawarathnarajah	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	AT SLEEPER-BALLAST INTE	EEPER PAD ON SHEAR RESISTANCE ERFACE ratnarajah, C. S. Bandara and J. A.	

17 th December 2023				
	Room 5	5 (Physical)/ Session 02		
	Sustair	able Solutions Session		
Session chair 1	Dr. Rohan Dassanayake	Session Coordinator 1	Mr. Kumudu Prabodya	
Session chair 1	Dr. 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 OF PREPARING BATTERY-GRADE GRAPHITE FROM SRI LANKAN VEIN GRAPHITE FOR RECHARGEABLE LITHIUM-ION BATTERIES 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		
11.45 - 12.00 hrs	ICSBE_89	K.W.S.N. Kumari, H.W.M.A.C. Wijayasingne 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 PH AGGREGATE DERIVED FROM DI B.G.V. Sanjaya, J.M.R.S. Appuhamy, Venkatesan, R.J. Gravina		
12.45 - 13.00 hrs	ICSBE_357	EXPLORING PERCEPTIONS OF SE MUNICIPALITY IN SOUTH AFRIC E.S. Ngcobo, C. Gerwel Proches, N.	ČA	

	17 th D	ecember 2023	
	Room 6 (H	ybrid)/ Session 01	
	Circular 1	Economy Session	
Jain Zoom Masting	https://zoom.us/j/9724114817	73?pwd=WGpPY2dXR1Z4RURJW	/FVhRW5rUWIBQT09
Join Zoom Meeting	Meeting ID: 972 4114 8173	Passcode: 123782	
Session chair 1	Dr. Ajith De Silva	Session Coordinator 1	Ms. Sajani Kolambage
Session chair 1	Dr. Mayuri Wijayasundara	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		Title
09.40 – 09.55 hrs	ICSBE_09	EXPLORING CIRCULAR ECC THE BUILT ENVIRONMENT: STUDY ANALYSIS Olivia Ho, Usha Iyer-Raniga, K Mahanama Dissanayaka	INSIGHTS FROM CASE
09.55 – 10.10 hrs	ICSBE_22	SUSTAINABLE CONSTRUCT	Г MANAGEMENT PROJECT, SRI
10.10 – 10.25 hrs	ICSBE_62	GHG EMISSIONLESS OPEN I ECONOMY APPROACH	DUMPSITE: A CIRCULAR ka, D.H.P. Kaushalya, M.B.T.D. De
10.25 – 10.40 hrs	ICSBE_278	PRIORITIZING GREEN HUM. PRACTICES TOWARDS ACH SUSTAINABILITY FROM EX CONCEPTUAL PAPER Mafruha Hossain, and Mohamm	PERTS' PERSPECTIVES: A
10.40 – 10.55 hrs	ICSBE_47	A STUDY ON ADAPTATIONS	S OF CIRCULAR ECONOMIC ON INDUSTRY OF SRI LANKA

17 th December 2023					
	Room 6 (Hybrid)/ Session 02				
Circular Economy Session					
	https://zoom.us/j/97241148173?pwd=WGpPY2dXR1Z4RURJWFVhRW5rUWIBQT09				
Join Zoom Meeting	Meeting ID: 972 4114 8173	3 Passcode : 123782			
Session chair 1	Dr. Ajith De Silva	Session Coordinator 1			
Session chair 1	Dr. Mayuri Wijayasundara	Session Coordinator 2			
Time	Paper ID	Ti	tle		
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			
12.00- 12.15 hrs	ICSBE_136	APPLICATION OF CIRCULAR ECONOMIC CONCEPTS AT CONSTRUCTION WASTE MANAGEMENT (COWAM) PROJECT, DADALLA, SRI LANKA B M M I Balasooriya and, K K K Sylva			
12.15- 12.30 hrs	ICSBE_266	MANAGEMENT OF E-WASTE IN URBAN SRI LANKAN HOUSEHOLDS A. S. M. Musharraf, G. P. Jayasiri			
12.30 - 12.45 hrs	ICSBE_138	A. S. M. Musharraf, G. P. Jayasırı TRANSITIONS TO PAPERLESS GOVERNMENT OFFICES: AN ANALYSIS OF CHALLENGES AND RECOMMENDATIONS FOR SUPPORTING THE GREEN ECONOMY <i>Tilak De Silva</i>			

