



SCHEDULE OF THE TECHNICAL SESSIONS

ICCES 2023

Third International Conference of the Centre
for Environmental Sustainability (CES)

August 25, 2023



International Conference of the Centre for Environmental Sustainability (ICCES) 2023, August 25, 2023

Technical Session Schedule

Theme	Biodiversity and Conservation I	Time	8:30 - 10:30	Session	A	
Zoom Link	https://learn.zoom.us/j/62225545731?pwd=TkZUNFhLVdJNVWxZFZEE0VIZqRXJkQT09		Meeting ID	622 2554 5731	Passcode	M6i4=E?K
Chairperson	Prof. Priyanka De Silva					
Coordinator	Dr. P.L. Dharmapriya					
Discussants	Dr. Thilini Weeraratne		Dr. G.A.N. Suranjith			
Abstract Number	Abstract Title	Authors		Time		
A-01	A Preliminary Investigation of Non-Breeding Season Behavioral Patterns and Taxonomic Status of Indian Peafowls (<i>Pavo Cristatus</i>) in Wellamadama Premises, of the University of Ruhuna, Sri Lanka	E.K.V. Ishara, P.G.L. Madushan, D.H.N. Munasingha, and W.G.D. Chathuranga		8:30 - 8:45		
A-02	Butterfly Fauna in the Wellamadama Premises of the University of Ruhuna, Matara, Sri Lanka	Y.S.M. Wijerathna, D.U.K. Welikala, A.I. Kavindi, H.C.E. Wegiriya and W.G.D. Chathuranga		8:45 - 9:00		
A-03	Distribution of the Critically Endangered Spotted-billed Duck (<i>Anas poecilorhyncha</i>) in the Northern Province of Sri Lanka	Chaminda S. Wijesundara, Saumya Wanniarachchi, Dilan Chathuranga, Nuwanthika Perera, Tharangi Hettirarachchi1, Supun Galappaththi, Asela Weerawardhana, Gayani Weerakoon and Packivanathan Raikumar		9:00 - 9:15		
Session Discussion					9:15 - 9:30	
A-04	Influence of Environmental Conditions on Odonates in Sarasavi Oya, Peradeniya, Sri Lanka: A Case Study	B.D.G.S.H. Jayathissa, M.W.S.K. Yatigammana and S. Kumburegama		9:30 - 9:45		
A-05	Assessing Fish Species and Ecosystem Health in Negambo and Puttlum Lagoons, Sri Lanka	P.H. Liyanagedara, V. Illangakoon, H.M.T. Priyadharshika and S. Kumburegama		9:45 - 10:00		
A-06	Relationship between the Vegetation Structure and Butterfly Diversity in the Peradeniya Campus and adjacent Forested Areas	P.H. Liyanagedara, S.S. Abeyrathne, L.L.K.Perera, K.A. Kalupahana4, P.M.G.W.G. Rajapaksha, K.P. Hewage, H.M.S.M. Herath and Chaminda S. Wijesundara		10:00 - 10:15		
Session Discussion					10:15 - 10:30	

International Conference of the Centre for Environmental Sustainability (ICCES) 2023, August 25, 2023

Technical Session Schedule

Theme	Biodiversity and Conservation II	Time	8:30 - 10:30	Session	B	
Zoom Link	https://learn.zoom.us/j/66908385438?pwd=UittcVFzSlpIN1pUL1I6TDJvajREdz09		Meeting ID	669 0838 5438	Passcode	lccES23B!
Chairperson	Prof. Sumudu Rubasinghe					
Coordinator	Dr. Bhatiya Athurupana					
Discussants	Dr. Rajnish Vandercone		Dr. Piyumali Peera			
Abstract Number	Abstract Title	Authors		Time		
B-01	A New Locality of Guppy, <i>Poecilia reticulata</i> (Cyprinodontiformes: Poeciliidae) on the Border Zone of Knuckles Forest Reserve, Sri Lanka	J. Bandara and M. P. Gunawardena		8:30 - 8:45		
B-02	Habitat Preferences and Foraging Behaviour of two Bulbul Species in two Landscapes in the Dry Zone of Sri-Lanka	K.W.D.H.H. Kumarasinghe, S. Wickramasinghe and R. Dissanayake		8:45 - 9:00		
B-03	Visiting Frequency, Colour Preference and Resource Collection by <i>Tetragonula praeterita</i> and <i>T. iridipennis</i> (Hymenoptera: Apidae) Visiting <i>Portulaca grandiflora</i> (Portulacaceae)	Shashikala RMSHL Aththanayake and Inoka Karunaratne		9:00 - 9:15		
Session Discussion					9:15 - 9:30	
B-04	Allelopathic Effects of Plants Used in Reforestation Programs in Sri Lanka	K.V. Yapa and G.A.D. Perera		9:30 - 9:45		
B-05	Invasion of <i>Alstonia macrophylla</i> Wall. ex G.Don in Tropical Lowland Rain Forest at Kurulu-Kele Forest Reserve, Sri Lanka	J.D.N. Jayalath and G.A.D. Perera		9:45 - 10:00		
B-06	Preliminary Investigation on Genetic Diversity and Population Genetic Structure of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> in Three Localities of Sri Lanka	S.N. Palliyaguru, W.A. de Silva and T.C. Weeraratne		10:00 - 10:15		
Session Discussion					10:15 - 10:30	

International Conference of the Centre for Environmental Sustainability (ICCES) 2023, August 25, 2023

Technical Session Schedule

Theme	Wetland Ecosystems	Time	8:30 - 10:30	Session	C
Zoom Link	https://learn.zoom.us/j/67808027640?pwd=RjRHbUJjU2MzblpMVGtqLzEwanlUz09	Meeting ID	678 0802 7640	Passcode	wdtU4+g=
Chairperson	Prof. Rekha Niyanthi				
Coordinator	Dr. Mahasen Dehideniya				
Discussants	Dr. Isthika Aariff		Ms. Chathurika Munasinghe		
Abstract Number	Abstract Title	Authors		Time	
C-01	Existing Challenges to Implementing an Environmental Management Plan in Attanagalu Oya River Basin	G.N. Kaushalya, T.W.M.T.W. Bandara and V.P.I.S. Wijeratne		8:30 - 8:45	
C-02	Occurrence and Characteristics of Microplastics in Coastal Sediments along Southeast Coast of Sri Lanka	W.P.U.S. Wickramarathna, T.B.N.S. Madugalla and R.K.D.S. Samaradiwakara		8:45 - 9:00	
C-03	Nature-Based Solutions for Urban Flood Mitigation in the Jaffna City	V. Sukanya and B. Arularasi		9:00 - 9:15	
Session Discussion					9:15 - 9:30
C-04	Changes in the extent of Wetlands in the Colombo Metropolitan Region Over the Period from 1992 to 2021, using Satellite Remote Sensing and GIS	J. Thushani, T.W.M.T.W. Bandara and Shyamantha Subasinghe		9:30 - 9:45	
C-05	Assessment of Heavy Metal Concentrations in Two Mangrove Ecosystems in Sri Lanka	H.A.C. Dilrukshi, K.M.G.G. Jayasuriya and R. Weerasooriya		9:45 - 10:00	
C-06	Anthropogenic Activities in Urban Wetlands and Community Perceptions on Wetland Conservation: A Case Study of the Thalangama Wetland	B.A.L.P. Premarathne and Manjula L. Karunaratne		10:00 - 10:15	
Session Discussion					10:15 - 10:30

International Conference of the Centre for Environmental Sustainability (ICCES) 2023, August 25, 2023

Technical Session Schedule

Theme	Water Quality Management I	Time	8:30 - 10:15	Session	D
Zoom Link	https://learn.zoom.us/j/65757808423?pwd=ZUNMNklrZG9RbGo1cTQzRVc1aEJwdz09	Meeting ID	657 5780 8423	Passcode	dr4%&QVr
Chairperson	Prof. Rohan Weerasooriya				
Coordinator	Dr. Piumnil Gamagedara				
Discussants	Mr. Asanka Welagedara		Mr. Mahinda Prematilake		
Abstract Number	Abstract Title	Authors		Time	
D-01	Water Table Elevation and Groundwater Quality in Jaffna City, Sri Lanka	Thanushan Rasaiah, Thamilini Sathees, Inthuja Rangunathan, Kokilavathani Suntharalingam and L.D. Rajasooriyar		8:30 - 8:45	
D-02	Impact of Carbon Storage on the Water Quality of the Upper Walawe River Basin	W.M.A. Waduwwala, E.P.N. Udayakumara and J.M.C.K. Jayawardana		8:45 - 9:00	
D-03	Soil Erosion in the Middle Walawe River Basin, Sri Lanka and it's Impacts on Surface Water Quality	Y.P. Rupesinghe, J.M.C.K. Jayawardana and E.P.N. Udayakumara		9:00 - 9:15	
Session Discussion				9:15 - 9:30	
D-04	Microbiological Quality of Groundwater Self-Supply Wells at Vadamarachchi Sand Dune Aquifer in the Jaffna Peninsula, Sri Lanka	R. Sharmilaa, N. Anoja and K.A. Sirisena		9:30 - 9:45	
D-05	Investigation of Suitable Pre-treatment to Improve the Performance of Sea water Reverse Osmosis Treatment Plant at Ninathivu	N. Anoja, K. Gopiraj and S. Rathiga		9:45 - 10:00	
Session Discussion				10:00 - 10:15	

International Conference of the Centre for Environmental Sustainability (ICCES) 2023, August 25, 2023

Technical Session Schedule

Theme	Water Quality Management II	Time	13:30 - 15:15	Session	E
Zoom Link	https://learn.zoom.us/j/63490670067?pwd=bCtDazlCM1dJSDZ4QnZHcEhmZXFHQ09	Meeting ID	634 9067 0067	Passcode	i9\$4gHH6
Chairperson	Prof. Rohana Chandrajith				
Coordinator	Dr. G.A.N. Suranjith				
Discussants	Prof. Nadeeshani Nanayakkara		Dr. Nadeesha Koralegedara		
Abstract Number	Abstract Title	Authors		Time	
E-01	Floating Treatment Wetlands for Cu and Zn Removal from Secondary Industrial Effluents in Retention Ponds	G.M. Kavindi, S.K. Gunatilake, S.S.R.M.D.H.R. Wijesekara and N.P.N. Shyamal		13:30 - 13:45	
E-02	<i>Cryptosporidium</i> Species Contamination in Waters Treated at Selected Treatment Plants along the Mahaweli River	F. Fareed, P.T.A. Thilakarathna, F. Noordeen, D.R.L.N. Bandara, R. Jinadasa, T.N. Premachandra, M. Makehelwela, R. Fernando, C. Gamage, M. Rajapakse, S.K. Weragoda and S.H.P.P. Karunaratne		13:45 - 14:00	
E-03	Investigation of the Efficiency of Red Soil-Sand Mixture in the Removal of Fluoride from Drinking Water	G.K.L Wickramasinghe and S.K. Gunatilake		14:00 - 14:15	
Session Discussion				14:15 - 14:30	
E-04	Evaluation of the Use of Peels of Sri Lankan Banana Variety (<i>Puwalu</i>) to Remove Cadmium (II) from Simulated Wastewater	A.N. Navaratne and L.K.I.N. Perera		14:30 - 14:45	
E-05	Identifying Potential Oil-degrading Bacterial Genera by Analysing Raw Gene Sequencing Data on Deepwater Horizon and Northwest Coast of the Iberian Peninsula Oil Spill Sediments	K.L.P.D. Perera and R.A.R.C. Rupasinghe		14:45 - 15:00	
Session Discussion				15:00 - 15:15	

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Technical Session Schedule

Theme	Pollution Detection and Control	Time	13:30 - 15:15	Session	F
Zoom Link	https://learn.zoom.us/j/67782861366?pwd=MWIKNHlhMjYyZnJhOVVGMDg3dkFhZz09	Meeting ID	677 8286 1366	Passcode	lccES23B!
Chairperson	Prof. Parakrama Karunaratne				
Coordinator	Dr. Bhatiya Athurupana				
Discussants	Dr. Anurudda Karunaratna		Dr. Gayan Bowatte		
Abstract Number	Abstract Title	Authors		Time	
F-01	An Assessment of distribution of Airborne Microplastic using Epiphytic Crustose Lichens in Surrounding Areas of an Open Dumpsite of a Plastic Crusher Plant at Kanadola, Sri Lanka	B.H.P.H. Peiris, R.G.U. Jayalal and S.S.R.M.D.H.R. Wijesekara		13:30 - 13:45	
F-02	Post Combustion Carbon Dioxide Capturing Techniques: A Critical Analysis of Recent Developments on Modified Zeolites, Algae and Metal Organic Frameworks	T.V. Kasthuriarachchi and M.A. Elangasinghe		13:45 - 14:00	
F-03	Effects of Discarded Baby Diapers as a Self-Curing Agent on Concrete Characteristics in the Dry Zone of Sri Lanka	N.S.A. Cooray and S.G.S. Karunanayake		14:00 - 14:15	
Session Discussion					14:15 - 14:30
F-04	Soil Contamination by Heavy Metals in e-Waste dumping sites at <i>Ginigathpitiya</i> and <i>Koulwewa</i> villages in the Kurunegala District, Sri Lanka	K.A.M.V. Kasthurirathna, Hasintha Wijesekara, S.K. Gunatilake and S.K. Lenaduwa		14:30 - 14:45	
F-05	Improvement of Flammability of Coconut Shell Charcoal Briquettes using Different Waste Materials as Fire Starters	K.D.H. Nayanathara and M.A. Elangasinghe		14:45 - 15:00	
F-06	Economic Analysis of Battery Energy Storage Systems Used in Low Voltage Distribution Systems	N.S. Hasaranga, W.A.P. Padmaranga, M.A.C. Induwara, and K.M.C.K. Chandrasena		15:00 - 15:15	
Session Discussion					15:15- 15:30

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Technical Session Schedule

Theme	Green Industry Towards Environmental Sustainability	Time	13:30 - 16:15	Session	G
Zoom Link	https://learn.zoom.us/j/69513676683?pwd=WEExxYVVWdzAvNlVkekp1bUIDbjJBdz09	Meeting ID	695 1367 6683	Passcode	Sy7yh*Vi
Chairperson	Prof. Udaya Vitharana				
Coordinator	Prof. Nanda Balasooriya				
Discussants	Dr. Nuwan Silva		Dr. Samantha Dissanayake		
Abstract Number	Abstract Title	Authors		Time	
G-01	Use of Key Performance Indicators to Evaluate the State of Environmental-Friendliness of Research and Development in the Commercial Agriculture Sector	P.C. Abeysiriwardana and U.K. Jayasinghe-Mudalige		13:30 - 13: 45	
G-02	Food Security within Vulnerable Communities: Balancing Social and Economic Concerns in Plantation Agriculture	H.A.P.B. Ranasinghe and D.V.P. Prasadaa		13:45 - 14: 00	
G-03	Effect of Reduced Fertilizer Rate, Increased Plant Density and Extended Irrigation Interval on Hybrid Fodder Sorghum Yield in Lowland Paddy Fields	U.L. Karunadhipathi, M.A.P.W.K. Malaviarachchi, W.M.P.B. Weerasinghe and M.B.P. Kumara Mahipala		14:00 - 14:15	
Session Discussion					14:15 - 14:30
G-04	Evaluation of Leather Quality Manufactured from Goat Skin with Selected Vegetable Tanning Materials	G.L.L.M. Jayarathna, P.R.M.K. Fernando, A.T.H. Gamage, S. Sujanthan, J.K. Vidanarachchi and S.M.C. Himali		14:30 - 14:45	
G-05	Impact of the Choice of Packaging Size by Consumers on Waste Generation: A Case Study from Southern Sri Lanka	K.C. Ellawala		14:45 - 15:00	
G-06	European Green Marketing Strategies: Best Practices for Small and Medium Enterprises in Sri Lanka	V.A.V. De Silva		15:00 - 15:15	
Session Discussion					15:15 - 15:30
G-07	Assessment of Heavy Metal Contamination in Tea Infusions: Implications of Chemical Contaminants in Dambetenna Estates, Sri Lanka	G.D.H.N. Perera, E.P.N. Udayakumara, S.K. Gunetilake and I.D.U.H. Piyathilake		15:30 - 15:45	
G-08	Adsorption of Methylene Blue by Manganese Dioxide and Reduced Graphene Oxide (MnO ₂ -rGO) Nanocomposite	K.R.D.T.D. Silva, Hasintha Wijesekara, S.K. Gunatilake, R. Dassanayake and D. Manatunge		15:45 - 16:00	
Session Discussion					16:00 - 16:15

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Technical Session Schedule

Theme	Land Use Planning and Environmental Monitoring	Time	13:30 - 16:00	Session	H
Zoom Link	https://learn.zoom.us/j/64742044297?pwd=aVI6QkhEVDVSNE5OdWsxU0hZNVFQQT09	Meeting ID	647 4204 4297	Passcode	nx27NFT.
Chairperson	Prof. Dammika Dayawasna				
Coordinator	Dr. Piumnil Gamagedara				
Discussants	Prof. Lalitha Dissanayake		Mr. M.S.M. Razik		
Abstract Number	Abstract Title	Authros		Time	
H-01	Beach Slope Responses during the Northeast Monsoon in the West Coast of Sri Lanka	S. Chithra, N.P. Ratnayake and Tilak Hewawasam		13:30 - 13: 45	
H-02	Monitoring the Spatial and Temporal Changes of Land Area under Rubber Plantations: A Case Study in Millaniya Grama Niladhari Division of Kaluthara District, Sri Lanka	G.G.K.K. Meegastenna and P.G. Vithanage		13:45 - 14: 00	
H-03	Spatial Distribution Pattern of Beach Sand Properties on the Western Coast of Sri Lanka	S. Chithra, N.P. Ratnayake and Tilak Hewawasam		14:00 - 14:15	
Session Discussion					14:15 - 14:30
H-04	Assessing PM10 Content under Different Lockdown Scenarios of the COVID-19 pandemic period: A Case Study in the Colombo Municipal Council Area	H.B.T.P. Jayathilaka and V.P.I.S. Wijeratne		14:30 - 14:45	
H-05	Nexus of Climate Change and Maritime Security in Sri Lanka: Implications for Small Island Developing States	A.P. Amila Prasanga		14:45 - 15:00	
H-06	Challenges in Implementing Climate Change Adaptation Policy in Bhaktapur, Nepal: A Case Study on Reluctance to Adapt	B.N.G. Perera, K.A.S. Udayanga, M.G. Thilini, O.A.Y. Chamathya, S.D.T. Batuwanthudawa, N. Ruwanpathirana, B.K.A. Bellanthudawa and E.C.D. Perera		15:00 - 15:15	
Session Discussion					15:15 - 15:30
H-07	Identifying Critical Environmental Regions within the Colombo Metropolitan Area based on Urban Heat Island Effect using Remote Sensing and GIS	S.S. Wimalakeerthi, M. Ranagalage and I.A.J.K. Dissanayake		15:30 - 15:45	
H-08	Remote Sensing Analysis of Impacts of Agrochemical Ban on Paddy Farming in the Maha Seasons of 2020/21 and 2021/22: A Case Study of the Deduru Oya Basin	W.M.S.S. Dias		15:45 - 16:00	
H-09	Community Perception on Irrigation Rehabilitation Activities of the Yan Oya River Basin	N.S.K. Herath		16:00 - 16:15	
Session Discussion					16:15 - 16:30