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TWENTY EIGHTH
INTERNATIONAL
FORESTRY AND
ENVIRONMENT

Symposium
2024



Forest and Environmental Management towards Economic Recovery and Resilience

Organized by
Department of Forestry and Environmental Science, University of Sri Jayewardenepura
05th - 06th January 2024

SYMPOSIUM PROGRAMME

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08.30. a.m. - 10.30 a.m. Inauguration and Plenary Session

08.30 a.m.-08.35 a.m.	Lighting of the Oil Lamp
08.35 a.m.-08.40 a.m.	University Anthem
08.40 a.m.-08.50 a.m.	Welcome address: <i>Prof. Daham Jayawardana</i> (Symposium Chair), Head, Department of Forestry and Environmental Science, University of Sri Jayewardenepura
08.50 a.m.-09.00 a.m.	Symposium Video
09.00 a.m.-09.10 a.m.	Address: <i>Prof. Upul Subasinghe</i> , Dean, Faculty of Applied Sciences, University of Sri Jayewardenepura
09.10 a.m.-09.20 a.m.	Address: <i>Snr. Prof. Pathmalal Manage</i> , Vice-chancellor, University of Sri Jayewardenepura
09.20 a.m.-09.35 a.m.	Address of the Chief Guest: <i>Snr. Prof. Sampath Amaratunge</i> , Chairman of the University Grants Commission
09.35 a.m.-09.55 a.m.	Keynote Speech: <i>Dr Tricia Wevill</i> , Senior Lecturer, School of Life & Environment Sciences Faculty of Science, Engineering & Built Environment, Deakin University, Australia
09.55 a.m.-10.00 a.m.	Token of Appreciation
10.00 a.m.-10.10 a.m.	Vote of Thanks: <i>Dr. Chaamila Pathirana</i> , Symposium Coordinator, 28 th International Forestry and Environment Symposium 2024
10.10 a.m.-10.20 a.m.	National Anthem

Day 1: 05th January 2024

Time	Hall A (LT2)	Hall B (F1)	Hall C (LT3)	Hall D (Blended Learning C. Hall-1)	Hall E (Blended Learning C. Hall-2)
	<i>Session 01</i> Forest and Natural Resource Management–Part 1 (PHY)	<i>Session 03</i> Waste Management and Pollution Control–Part 1 (PHY)	<i>Session 02</i> Biodiversity Conservation & Management–Part 1 (PHY)	<i>Session 02</i> Biodiversity Conservation & Management–Part 2 (PHY)	<i>Session 13</i> Poster Session – Part 1 (Online)
	Snr. Prof. Sandun Senerath	Prof. Erandathie Lokupitiya	Prof. Darshani Mahaulpatha	Dr. Jinendra Dissanayaka	Dr. Shyanika Lakmali
11.00-11.15 am	<p>23</p> <p>Genus <i>Landoltia</i> (Araceae): A Newly Recorded Aquatic Genus from Sri Lanka</p> <p style="text-align: right;">Ranasinghe RHI</p>	<p>323</p> <p>Practical Application of Environmental Engineering Technology For the Management of COVID-19 Waste</p> <p style="text-align: right;">Gunarathna YR</p>	<p>88</p> <p>A Preliminary Assessment on the Current Status and General Ecology of the Point Endemic, <i>Ceylonthelphusa durrelli</i> (Crustacea: Decapoda: Gecarcinucidae) in Sri Lanka</p> <p style="text-align: right;">Bandara J</p>	<p>168</p> <p>A Situational Audit on the Agricultural Seed Systems: A Case Study in Imbulpe Divisional Secretariat Division, Sri Lanka</p> <p style="text-align: right;">Maveesha WHD</p>	<p>90</p> <p>The Survival of Antagonistic Fungi Against the White Root Disease of Rubber (<i>Hevea brasiliensis</i>) Under Field Conditions</p> <p style="text-align: right;">Aberathne AHMNR</p>
11.15 - 11.30 am	<p>158</p> <p>Pestiferous Occurrence and Suppression of <i>Heortia vitessoides</i> in Agarwood: A Review.</p> <p style="text-align: right;">Subasingha SMAB</p>	<p>9</p> <p>Optimizing Wastewater Treatment: Harnessing Non-Potable Treated Wastewater Reuse to Foster Sustainable Development Goals</p> <p style="text-align: right;">Samaraweera SAPT</p>	<p>226</p> <p>Microbial Ecology Associated to the Coral Recruitments Dynamics in Southern Sri Lanka.</p> <p style="text-align: right;">Fairoz MFM</p>	<p>149</p> <p>Floral Diversity in the Manalkaadu Sand Dune, Jaffna, Sri Lanka</p> <p style="text-align: right;">Amarasekara EAKK</p>	<p>206</p> <p>Current States of Medicinal Plants Diversity at Ponnalai, Jaffna.</p> <p style="text-align: right;">Karunya S</p>

11.30-11.45 Am	<p>292</p> <p>Changes in Leaf Construction Cost and Functional Traits of Two Tropical Dry Forest Species</p> <p style="text-align: right;">Gunasekera TSS</p>	<p>24</p> <p>Phytoremediation of Soil Contaminated with Used Lubricant Oil by Marigold Plant (<i>Tagetes erecta L.</i>)</p> <p style="text-align: right;">Ranasinghe NMKG</p>	<p>269</p> <p>Relationship Between Tributyltin Contamination Level and Total Lipid Content in Body Tissues of Marine Invertebrates</p> <p style="text-align: right;">Bandara KRV</p>	<p>219</p> <p>Olfactory Responses of Adult <i>Cryptolaemus montrouzieri</i> (Coleoptera: Coccinellidae) to the Host, <i>Paracoccus marginatus</i> and Host-Associated Plant Odours: Evidence from Y-Tube Olfactometer Trials</p> <p style="text-align: right;">Gunawardana DUM</p>	<p>248</p> <p>Diversity and Distribution of Medicinal Plants in Vedukkunarimalai, Located at Nedunkeny, Northern Province of Sri Lanka.</p> <p style="text-align: right;">Prasad VM</p>
11.45-12.00 Pm	<p>305</p> <p>Abundance of Fungal Species in Healthy and Agarwood Resinous Tissues of <i>Gyrinops walla</i>.</p> <p style="text-align: right;">Hettiarachchige RP</p>	<p>75</p> <p>Detection of <i>E.Coli</i> O-157 in Polluted Cannels of Colombo District ,Sri Lanka</p> <p style="text-align: right;">Apsara DPM</p>	<p>122</p> <p>Diversity and Distribution of Freshwater Crabs in Sri Lanka</p> <p style="text-align: right;">Laksith KMTI</p>	<p>222</p> <p>Monitoring of the Airborne Pollen Diversity at the University of Sri Jayewardenepura Premises</p> <p style="text-align: right;">Abeyrathne UKG</p>	<p>89</p> <p>Effective Protocol for In Vitro Callus Induction from Different Explants of <i>Rosa centifolia</i></p> <p style="text-align: right;">Priyadarshan AIS</p>
12.00-12.15 Pm	<p>72</p> <p>Scaling Up Above-Ground Biomass for <i>Khaya senegalensis</i> from Tree Level to Stand Level Using Sentinel-2 Based Dataset</p> <p style="text-align: right;">Herath HMTP</p>	<p>77</p> <p>Seagrass Beds May Act as A Trap of Microplastics; A Case Study at Puttalam Lagoon, Sri Lanka</p> <p style="text-align: right;">Bhathiya MAM</p>	<p>276</p> <p>Impact of Naturally Occurring Water Types and pH on the Emergence and Survival of <i>Aedes albopictus</i> Mosquitoes in Southern Sri Lanka</p> <p style="text-align: right;">Bandara RHMP</p>	<p>92</p> <p>Effect of Salinity on the Morphological and Physiological Parameters of Quinoa (<i>Chenopodium quinoa</i> Willd.) Amarillo marangani Variety</p> <p style="text-align: right;">Silva AIL</p>	<p>91</p> <p>Effective In-Vitro Culture Medium for Multiplication of <i>Phalaenopsis</i> cv. Pink Lip via Protocorm-Like Bodies</p> <p style="text-align: right;">Wishwakulathilaka DT</p>

12.15-12.30 pm	94 Cytotoxicity of Indigenous Medicinal Plants; Kothala Himbutu, Kottamalli and Polpala on the Vero Kidney Cell Line; In-Vitro Study Using MTT Assay Hewawithana JK	47 Vegetable Wastes as Alternative Culture Media for the Growth of Selected Fungi Ann Angel A	60 The Effect of Short-Term Exposure to Bisphenol-A and its Analogue, Bisphenol-S on Growth, Survival and Sex Differentiation of Developing Zebrafish (<i>Danio rerio</i>) Shanika KPWD	145 Lianas are Increasing in the Tropics: A Consolidated Evidence from Southeast India Vivek P	86 Diversity and Restorative Assessment of Fragmented Cloud Forest Ecosystem in Bopaththalawa; Central Highlands of Sri Lanka Perera PM
12.30-12.45 pm	190 Above-Ground Biomass Partitioning of Selected Fewer Common Trees with Timber Value Hansamali APU	81 Characterization of Compost and Screening of Antibiotic Residues, Antibiotic Resistant Bacteria in Commercially Available Compost in Sri Lanka. Parameswaran R	250 The Dung Beetle Diversity is Differently Affected by Land Use Types: A Case Study from Landuyaya, Belihuloya, Sri Lanka Fonseka HWL	237 Fungal Diversity of Capsicum (<i>Capsicum annuum</i> L.) Rhizospheric Soils from Five Different Agroecological Zones of Sri Lanka Srimali PUNE	192 Abundance, Diversity, and Distribution of Butterflies (Order Lepidoptera) in Selected Forest Patches and Selected Home Gardens in the Mahagama Area of Kaluthara District, Sri Lanka Wijerathna YSM
12.45-01.00 pm		256 Determination of Heavy Metals in <i>Metapenaeus dobsoni</i> and <i>Penaeus indicus</i> Shrimp Species Captured from Negombo and Puttalam Lagoons, Sri Lanka Dulanjani KG	162 Breeding Phenology, Pairing Patterns and Parental Behaviour of <i>Dinopium</i> flamebacks in Sri Lanka Chathurya EDJ	138 Species Distribution Modeling and Climate Change Impact Assessment for <i>Indianthus virgatus</i> (Roxb.) Suksathan And Borchs. in India & Sri Lanka Bhat VSK	251 Optimizing Environmental Conditions for Amoxicillin-Resistant Bacterial Strains in the Degradation of Amoxicillin and Exploring the Degradation Mechanism. Liyanage D
1.00 pm - 1.45 pm Lunch					

Time	Hall A (LT2)	Hall B (F1)	Hall C (LT3)	Hall D (Blended Learning C. Hall-1)	Hall E (Blended Learning C. Hall-2)
	<i>Session 11</i>	<i>Session 04</i>	<i>Session 02</i>	<i>Session 11</i>	<i>Session 13</i>
	Geology, Soil and Water Resource Management–Part 1 (PHY)	Environmental Economics & Resource Management (Online)	Biodiversity Conservation and Management –Part 3 (Online)	Geology, Soil and Water Resource Management–Part 2 (Online)	Poster Session – Part 2 (Online)
	Dr. Saranga Diyabalana	Dr. Menuka Udugama	Mr. Hasitha Karawita	Dr. S. M. Young	Snr. Prof. Hemanthi Ranasinghe
1.45-2.00 pm	31 Spatiotemporal Groundwater Status Modelling Using Deep Learning Techniques Wijeyesekera KC	148 Ocean Pollution and the Fishing Community Dasanayaka DDSM	10 Assessing the Management Effectiveness of Hikkaduwa Marine National Park, Sri Lanka Kiel CW	30 Effects of Polypropylene Microplastics on Soil Microbiome and Growth of Corn (<i>Zea mays</i>) Plants De Silva DADV	207 Assessment of Plankton Diversity in Madunagala Hot Water Springs, Sri Lanka. Batugedara BDIM
2.00-2.15 pm	46 Identification of <i>Salmonella Sp.</i> , <i>Shigella Sp.</i> , and Pathogenic <i>E. Coli</i> in Dug Wells Water Around the Karadiyana, Meethotamulla, and Kerawalapitiya Open Dump Sites. Gunaratne KBB	83 Local Fisherman’s Willingness to Accept Compensation for Commercial Sea Cucumber Farms in Jaffna Lagoon, Sri Lanka Balamauran R	87 A Comparative Morphological Study of <i>Loxococcus rupicola</i> (Thwaites) H.Wendl. & Drude and Related Two Taxa: <i>Oncosperma fasciculatum</i> Thwaites and <i>Areca concinna</i> Thwaites in Sri Lanka Ashani YN	35 Morphometric Analysis of Uma Oya Sub-Basin for Sustainable Soil and Water Resources Management Using Spatial Data Ravisanka YBML	231 Species Identification and Length-Weight Relationship of Sardine in Southern Coast, Sri Lanka Jayalath MHHW

2.15-2.30 pm	<p>279</p> <p>Study of the Suitability of Dosing Polyaluminium Chloride Made by Scrap Waste Aluminium for Water Treatment</p> <p>Wijesinghe LPRAN</p>	<p>217</p> <p>Optimizing the Value Chains for Underutilized Fruits: A Comprehensive Approach to Promote Sustainable Production and Consumption</p> <p>Jayasinghe MAEK</p>	<p>96</p> <p>Distribution Patterns of <i>Impatiens</i> in Sri Lanka: Exploring Niche Breadth, Range Size, and Elevational Dynamics</p> <p>Ruwanmalie WAPU</p>	<p>56</p> <p>Determination on the Impact of <i>Azolla pinnata</i> Liquid Fertilizer on Growth and Yield of Tomato (Var-<i>Thilina</i>)</p> <p>Laksikaa V</p>	<p>209</p> <p>Preliminary Assessment of Seaweed Diversity in an Extended Beach Rock Ecosystem, Bopitiya, Ja-Ela</p> <p>Wijewardhana DAHW</p>
2.30-2.45 pm	<p>134</p> <p>Vertical Profiles of Selected Soil Physico-Chemical Parameters in Natural, Restored, and Degraded Mangrove Ecosystems of Sri Lanka</p> <p>Tissera PMWSR</p>	<p>319</p> <p>Valuing the Disamenity of Karadiyana Open Dumpsite in Sri Lanka: Application of Hedonic Pricing Method</p> <p>Wanniarachchi GV</p>	<p>97</p> <p>A Preliminary Study on Sri Lankan <i>Impatiens</i>: Phylogenetics and Morphological Evidences.</p> <p>Piumal RJ</p>	<p>171</p> <p>Geochemical Signature and Micromorphology of Ferruginous Gravel and Laterite Deposits in Northern Sri Lanka</p> <p>Madushanka HGD</p>	<p>290</p> <p>Comparative Nutritional Analysis of Six Selective Small Pelagic Fish Species in Sri Lanka</p> <p>Silva DLPW</p>
2.45-3.00 pm.	<p>152</p> <p>Assessment of Water Quality in the Main Water Bodies in Anuradhapura Town, Sri Lanka.</p> <p>Rajakaruna RMNK</p>	<p>264</p> <p>Assessment of Groundwater Quality-Related Damage Costs: A Study in Jaffna District</p> <p>Rachel MM</p>	<p>106</p> <p>Start Codon Targeted Markers as A Suitable DNA marker to Assess Population Genetic Diversity of <i>Suaeda maritima</i></p> <p>Jayasundara R</p>	<p>247</p> <p>Inhibition the Harmful Cyanobacterium <i>Spirulina</i> using <i>Moringa oleifera</i> Functionalized Iron Oxide Nanoparticles in the Beira Lake, Sri Lanka.</p> <p>Priyadarshanee N</p>	<p>103</p> <p>A Study on CO2 Emissions from Aircraft Taxi at Colombo Airport with Special Reference to A Specific Air Carrier of Sri Lanka</p> <p>Perera HAOHS</p>

3.00-3.15 pm.	<p>263</p> <p>Impact of Different Types of Soil Amendments and Their Hydrophobicity on Soil Aggregate Formation</p> <p style="text-align: right;">Wijeysingha IS</p>		<p>297</p> <p>Breeding Success of a small flock of Greater Flamingos (<i>Phoenicopterus roseus</i>) harbored in captivity in an ex-situ conservation center in Hambantota, Sri Lanka</p> <p style="text-align: right;">Nisandara AWS</p>	<p>271</p> <p>Chemical Index for Assessment of Groundwater Palatability: A Case Study from Vavuniya</p> <p style="text-align: right;">Rathnayaka RMDT</p>	<p>214</p> <p>Evaluation of Potential Coastal Resources for Promotion of Ecotourism, Climate Resilience and Blue Economy Development in the Vadamarachchy East Region of Jaffna, Sri Lanka</p> <p style="text-align: right;">Sangarappilai R</p>
3.15-3.30 pm.	<p>280</p> <p>Examining the Adsorption of Fluoride Ions in Fluoride-Bearing Groundwater Using Suspended Particles of Thermally Activated Laterite Soil</p> <p style="text-align: right;">Kavindi RLM</p>		<p>324</p> <p>Application of geospatial technology to assess pressures and threats to nature related to human activities in Wilpattu National Park</p> <p style="text-align: right;">Kumara UI</p>	<p>289</p> <p>Comparison of Effects of Alum Sludge-Bound Seaweed Bio-Stimulant and Bentonite Clay Bound Seaweed Bio-Stimulant on Seed Germination of Radish (<i>Raphanus sativus</i> L.)</p> <p style="text-align: right;">Liyanage MLCS</p>	<p>229</p> <p>Plankton Assemblage and Potential Indicator Species for Water Quality Assessment in Selected Wetlands in Ramsar Wetland City, Colombo</p> <p style="text-align: right;">Perera HDCS</p>
3.30 pm - 3.45 pm Tea Break					

Time	Hall A (LT2) <i>Session 10</i> Environmental Engineering and Green Technology – Part 1 (Online)	Hall B (F1) <i>Session 10</i> Environmental Engineering and Green Technology – Part 2 (PHY)	Hall C (LT3) <i>Session 08 and 11</i> Sustainable Land Use & Urban Development/ Geology, Soil and Water Resource Management - Part 3 (PHY + Online)	Hall D (Blended Learning C. Hall-1) <i>Session 01</i> Forest and Natural Resource Management –Part 2 (PHY)	Hall E (Blended Learning C. Hall-2) <i>Session 13</i> Poster Session – Part 3 (Online)
	Dr. Dimuthu Manamgoda	Prof. Benadict F.A. Basnayake	Dr. N.P. Wijeyananda	Prof. Sudheera Ranwala	Dr. Saminda Fernando
3.45-4.00 pm	36 Hydrothermal Synthesis of Antimicrobial Carbon Dots from the Soot of Three Different Essential Oils Fernandez AB	45 Isolation of Phosphate Solubilizing Fungi from Soil and Their Application in Plant Growth Promotion Jayathilake KMPI	64 Red-Earth Material as A Novel Adsorbent for the Removal of Phosphates from Aqueous Media Poththawela HWSV	39 Quantitative Analysis of Forest Cover Dynamics: A Comparative Study of Nordic and South Asian Countries Jayamanne DNT	169 Abundance, Diversity, and Distribution of Potential Mosquito Vector Fauna in the Wellamadama Premises of the University of Ruhuna, Southern Sri Lanka Amarasekara HMSS
4.00-4.15 pm	107 Unrevealing the Enhanced Laccase Activities of <i>Phlebiopsis flavidoalba</i> in the Presence of Lignin-Rich Raw Materials Using Molecular Docking Senavirathna TMYH	58 Surface Modification of Montmorillonite Clay Towards the Fabrication of Nanocomposites for Engineering Applications Nayanthara HHD	278 Formulation and Characterization of <i>Azolla pinnata</i> and Effective Microorganisms-Based Organic Vermi-Liquid Fertilizer Ekanayake EMCA	104 Investigating A Methodological Framework to Develop Forest Resilience Index using Multisource Remote Sensing Satellite Data Priyadarshani GGH	20 Plantation Fence System as A Sustainable Method to Reduce Human- Elephant Conflict in Contemporary Sri Lanka: A Sociological Study Pavithra KKH
4.15-4.30 pm	142 Potential of Pathogen-Derived Immunity Inducers to Manage Southern Blight Caused by <i>Sclerotium rolfisii</i> in Selected Horticultural Crop Species as A Greener Approach of Disease Management Inuri HDOP	203 Development of A Novel Value-Added Leaf Tea from the Introduced True Cinnamon (<i>Cinnamomum zeylanicum</i> Blume) Variety Sri Gamunu Pabasara KAD	295 Effect of Anaerobic Soil Disinfestation System on Soil Carbon and Nitrogen Mineralization of Tea Nursery Soils in Upcountry Wet Zone Gamage KC	244 Detecting and Mapping Individual Coconut Tree Crowns Using Deep Learning from UAV Imagery at the Oluvil Coastal Fringe in Ampara District, Sri Lanka Nijamir K	221 Effects of Foraging Resources, Anthropogenic Risks, and Mating Opportunities on Grouping Behavior of Male Elephants in Wasgamuwa, Sri Lanka. Fernando C

4.30-4.45 pm	<p>200</p> <p>Soil Actinomycetes as Promising Alternative to Synthetic Herbicides</p> <p style="text-align: right;">Rangika WC</p>	<p>210</p> <p>Volatile Profiling and Assessment of the Bio-Efficacy of <i>Sandoricum koetjape</i> Essential Oil as A Botanical Insect Repellent Against <i>Sitophilus oryzae</i> (L.) (Coleoptera: Curculionidae)</p> <p style="text-align: right;">Liyanage HT</p>	<p>180</p> <p>Analysing Sustainable Urban Growth: Spatio-Temporal Dynamics of Urban Expansion in Gampola Urban Center</p> <p style="text-align: right;">Wilamune PBK</p>	<p>262</p> <p>A Forest Restoration Success: Public-private-people Partnership Driven Five-Year Intensive Restoration Methodologies for a Heavily Degraded Rainforest.</p> <p style="text-align: right;">Perera WPN</p>	<p>224</p> <p>A Comprehensive Butterfly Checklist and Conservation Assessment at Baddagana Wetland Area, an Urban Ecosystem in Sri Lanka.</p> <p style="text-align: right;">Levhan KWAL</p>
4.45- 5.00 pm	<p>202</p> <p>Identification of Plant Growth-Promoting Rhizobacteria for the Development of Probiotic Consortia</p> <p style="text-align: right;">Fernando GR</p>	<p>213</p> <p>Development of A Grow-Bed for Constructed Floating Wetlands: A Feasibility Study in Kandy Urban Lake in Sri Lanka</p> <p style="text-align: right;">Bandara WDN</p>	<p>322</p> <p>Towards Sustainable Cities: Challenges and Way Forward</p> <p style="text-align: right;">Ranasinghe H</p>	<p>287</p> <p>Household Wildfire Risk and the Community Preparedness: A Case Study of Rural Villages of Central Highlands of Sri Lanka</p> <p style="text-align: right;">Jayasinghe MAEK</p>	<p>320</p> <p>Habitat Characterization of <i>Pethia nigrofasciata</i> Inhabiting Wak Oya Stream at the Kalani River Basin, Sri Lanka</p> <p style="text-align: right;">Nanayakkara PSS</p>
END of Day 01					

Day 2: 06th January 2024

Time	Hall A (LT2)	Hall B (F1)	Hall C (LT3)	Hall D (Blended Learning C. Hall-1)	Hall E (Blended Learning C. Hall-2)
	<i>Session 01</i>	<i>Session 02</i>	<i>Session 03</i>	<i>Session 05</i>	<i>Session 13</i>
	Forest and Natural Resource Management –Part 3 (Online)	Biodiversity Conservation and Management –Part 4 (Online)	Waste Management and Pollution Control- Part 2 (Online)	Climate Change & Disaster Management – Part 1 (PHY)	Poster Session – Part 4 (Online)
	Dr. Isuru Kariyawasam	Dr. Varuni Gunathilake	Dr. Anushka Rajapaksha	Dr. Niranjana Kannangara	Dr. Thilak Chandrathilake
8.15-8.30 am	11 Improvement Needs to Promote Scientific Agricultural Practices in Agroforestry Home Gardens with Special Reference to Weligama, Sri Lanka Abeyasinghe MGD	116 Development of Propagation Techniques for Keekiridiya (<i>Eclipta prostrata</i> L.): A Valuable Medicinal Plant Jayawardhana WRS	12 Development of Protein Rich Ready to Serve Drink by Incorporating Whey in Wood Apple (<i>Limonia acidissima</i>) Pushparaja V	14 Assessment of Urban Heat Island Effect Through Land Use Analysis and Surface Temperature Based on Satellite Imagery: A Case Study in Gampaha District Denawaka DABP	300 Introducing <i>Gliricidia sepium</i> as A Fuel Wood in Rubber Smallholdings of Sri Lanka: A Case Study in Kalutara District Gunarathne PKKS
8.30-8.45 am	109 Assessing Changes and Fragmentations of Forest Cover in the Northern Province, Sri Lanka Bharathy P	123 Behavioral Responses of Asian Elephants (<i>Elephas maximus</i>) to Tourist Vehicles in and Around Minneriya National Park Jayarathna KHDL	17 Assessment of Environmental Impacts of Municipal Solid Waste Disposal Options Using Life Cycle Assessment Methodology - A Case Study in Matara Municipality Kalhari HKMG	27 Carbon Footprint of the Divisional Secretariat Office, Galewela, Sri Lanka Kulasekara KMST	42 A Review on the Utilization of Herbarium Data in Phenological Research Addressing Climate Change Implications Sathischandra MKDPM
8.45-9.00 am	159 The Influence of Vegetation Characteristics in Regulating the Microclimate in the Knuckles Conservation Forest, Sri Lanka Samaramanna SS	125 Evidence for Presence, Home Range Mapping, and Conservation Threats of Fishing Cats (<i>Prionailurus viverrinus</i>) in Kirala-Kele Sanctuary, Southern Sri Lanka Chathuranga WGD	50 Effects of Ethanol Extracts of Plant Materials High in Polyphenol and Flavonoid on Nitrogen Loss and Nematode Count of Broiler Litter During Storage Atapattu NSBM	146 Determining the Uncertainty of Changing Onsets of Major Crop Growing Seasons in Sri Lanka: A Spatial-Temporal Modelling Approach Bandara ALJ	179 Land Cover Change Detection Using Geo-Spatial Technologies: A Spatio-Temporal Study on Muthurajawela Marsh-Negombo Lagoon Wetland Complex Ashali BGK

9.00-9.15 am	160 Spatio-Temporal Changes and Fragmentation Patterns of Sinharaja Forest Peripheral Area Using Morphological Spatial Pattern Analysis Madhushanka MPS	139 Floristic Diversity, Composition, and Conservation Importance of Flora in the Salgala Forest Reserve in Kegalle District, Sri Lanka Imbuldeniya TD	61 Assessment of Beach Macroplastic Abundance and Distribution Along Western Province Coastline in Sri Lanka Edirisinghe EASMR	181 A Geospatial Analysis of Demarcating Landslide Susceptibility and Risk Assessment for Landslide Disaster Management: A Case Study of Rathnapura District Kokawalage ITH	99 Utilization of Palm Oil Effluent and Empty Fruit Benches as a Fertilizer for Marginal Oil Palm Fields at Talgaswella Estate, in the Low Country Wet Zone Agro Ecological Zone of Sri Lanka. Palihakkara IR
9.15-9.30 am	177 Antifungal Activity of Some Natural Plant Extracts Against Causal Agent of Anthracnose Disease of Chilli Jeyavintha J	216 Phylloplane Fungi Associated with Capsicum Varieties (<i>Capsicum annum</i> L.) of Sri Lanka and Their Antagonistic Activity on the Causative Agent of Capsicum Anthracnose Disease. Diwankara UT	102 Removal of Nitrate and Phosphate in Wastewater by Composite Rice Husk Ash and Dolomite Jayaranga ISL	193 GIS-Based Approach to Identify High Risk Zones for Floods and Evacuation Centers Pussella PGRNI	293 Zoning, land use management and Nature-based Solutions in urban planning, Where Sri Lanka is standing. Ranasinghe PR
9.30-9.45 am	194 Factors Influencing Rubber Latex Extraction in the Wet and Intermediate Zones of Sri Lanka Cooray S	246 Predicting the Spread of Invasive Alien Plant Species by Shared Socioeconomic Pathway Model; A Case Study of Exotic Plant Invaders That Threaten Wet Lowlands of Sri Lanka. Naorunna SP	128 Investigation of Compost Generation Potential for Municipal Waste: A Case Study in the Kurunegala Municipal Council Area, Sri Lanka Bandara WBSU	199 Identification of Most Suitable Tree Species for Temperature Reduction in Colombo, Sri Lanka Liyanage HID	100 Comparative Analysis of Rainfall Data Sources in Agro-Ecological Zones of Sri Lanka; Expensive Meteorological Measurements Vs Freely Available NASA Data Karunaratne AWSP

9.45-10.00 am	232 Genotypic Variation of Native Sweet Potato (<i>Ipomea batatas</i> L.) Accessions Compared to Improved Varieties in Sri Lanka Safwa MFZ	252 Effect of Anthropogenic Disturbances on Critically Endangered, Black-Necked Stork in Kumana National Park Gunathilaka WDCN	133 Comparative Analysis of Metal Accumulation in Selected Plants as An Indicator of Environmental Pollution Fernando WMM	205 Assessment of the Vulnerability of Paddy Cultivation to Impacts of Climate Change in Kurunegala District in Northwestern Province, Sri Lanka. Rathnayaka RMA	57 Investigation on Efficacy of <i>Azolla</i> with Different Organic Fertilizers as Plant Growth Enhancer on Chili (Var. <i>Super</i>) Rajeevan R
10.00-10.15 am	321 Assessing the Temporal Variations in Light Interception and Their Impact on Above-Ground Biomass Production in Wet Zone Rubber Plantations Thilangani KS	284 A Behavioral Study of An Isolated, Semi-Wild, Critically Endangered Hog Deer (<i>Axis porcinus</i>) Population in Honduwa Island Sanctuary in the Wet Zone of Sri Lanka Harischandra GP	143 Environmental Health Assessments of Beaches Using Beach Quality Indexes Yogarajah V	223 Sustainability Measures Under Implementation of SDG 13 by Selected Regional Plantation Companies in Sri Lanka Jayawardene HDW	1 Feasibility of Biofilm Biofertilizer in Halving Nitrogen Waste in Paddy Cultivation Ekanayake SNB
10.15-10.30 am	38 Industrial Perspective of Thermo-Stable Proteinase Enzyme Producing Bacteria Isolated from Maha Oya Hot Spring, Sri Lanka Sadeepa HDD	286 Odonata Diversity in a Rapidly Changing Landscape: A Case Study in a Land Near Hambantota Port Construction Site Thatsarani WAP	175 Emerging PFAS Contamination: Understanding the Ecological and Human Health Impacts on Water Quality Diwyanjalee GR	303 Climate Change Research in Sri Lanka: Assessing Current Status, Identifying Gaps, and Recommending Emerging Priorities Ranasinghe DMSHK	59 Climate Smart Tea (<i>Camellia sinensis</i>) Cultivation Practices in Rathnapura District Biyagma KK
10.30-10.45 am	111 The Impact of Harvesting Interval on Bush Architecture and Stem Wood Production of <i>Cinnamomum verum</i> J. Presl Jayawardhana WRS	71 Development of Surface Sterilization Protocol for Nodal Explants Collected from Field Plants of Pomegranate Janani NJ	241 Study Surface Emission Quantification of Trace Gases (CH ₄ , NH ₃ , H ₂ S, And VOC) in A Specific Blend of Compost and Soil Samarasingha TN		258 Effects of Liquid Fertilizers on Growth Performances of <i>Ipomoea aquatica</i> in Coir-Based Growing Media Madhusanka WPC

10.45-11.00 am	84 Studies on Bamboo <i>Dendrocalamus asper</i> Seed Viability Changes with the Storage Age in Sri Lanka Ariyasoma UMUR		266 Waste Disposal Determinants and Disparities: Evidence from Islandwide Survey in Sri Lanka Rahubaddhe MA		212 Biochar Derived from Pond Apple (<i>Annona glabra</i>) as A Fertilizer to Enhance the Crop Yield: As a Sustainable Approach Ravishani BPR
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11.00 am-11.15 am Tea Break

Time	Hall A (LT2)	Hall B (F1)	Hall C (LT3)	Hall D (Blended Learning C. Hall-1)	Hall E (Blended Learning C. Hall-2)
	<i>Session 02</i> Biodiversity Conservation and Management –Part 5 (PHY) Snr. Prof. Devaka Weerakoon	<i>Session 03</i> Waste Management and Pollution Control - Part 3 (PHY) Prof. Nilanthi Bandara	<i>Session 05</i> Climate Change & Disaster Management – Part 2 (Online) Dr. Panduka Neluwala	<i>Session 06 and 09</i> Biomass & Sustainable Energy/ Wood Science, Wood & Non- wood Industry (PHY + Online) Snr. Prof. Hemanthi Ranasinghe	<i>Session 13</i> Poster Session – Part 5 (Online) Dr. Arundathi Koliyabandara
11.15-11.30 am	120 Aspects of the Demography and Social Behavior of Asian Elephants (<i>Elephas maximus</i>) in the Minneriya and Kaudulla National Parks Warnapura AGSM	117 Removal of Organics and Phosphate from rice mill wastewater by using Crab shell biochar Thavaratnam H	26 Estimation of above-ground biomass using vegetation indices in a selected mangrove vegetation in Thambalagam Bay, Trincomalee. Jeyapalu J	70 Total Lipid Content and Fatty Acid Composition of Two Morphologically Distinct <i>Chlorella</i> sp. for Biodiesel Production Bandara SMDC	51 Preliminary Study on the Effect of Agrochemical Application on Freshwater Algae Pathmanathan S
11.30-11.45 am	127 Examination of Demarcation Criteria of Environmentally Sensitive Areas in Sri Lanka Samarasinghe SST	118 Development of a Cellulose- based aerogel using Aquatic invasive plants to treat Oil- contaminated wastewater. Darshani UGNP	54 Identification of Annual and Seasonal trends of Extreme Temperature and Precipitation in the Intermediate Zone, Sri Lanka from 1981 to 2019 Udyana ADI	53 Effect of Thermal Modification on the Density, Durability, Dimensional Stability, and Mechanical Properties of <i>Pinus</i> <i>caribaea</i> Withanage WHM	176 Assessment of Heavy Metal Accumulation in Freshwater Fishes in Irrigation Tanks, Anuradhapura Gamagedara HMCD

11.45-12.00 pm	<p>298</p> <p>Habitat Preference and Behavior of Critically Endangered Hog Deer (<i>Axis porcinus</i>) in Honduwa Island Sanctuary in Southwest Sri Lanka</p> <p>Madhumadhawa RC</p>	<p>124</p> <p>Cleaner Production Opportunity Assessment for A Concentrate Fruit Syrup Manufacturing Plant in Sri Lanka</p> <p>Jayawickrama KDTD</p>	<p>105</p> <p>Assessment of soil carbon stocks in selected freshwater urban wetlands in Colombo district, Sri Lanka</p> <p>Weerasinghe WDH</p>	<p>13</p> <p>Non-Destructive Assessment of Agarwood Resin Formation Status in <i>Aquilaria crassna</i> Using Near-Infrared Spectroscopy</p> <p>Herath HMWAI</p>	<p>243</p> <p>Suppression of Carbon Dioxide Emissions from Soil Amended with Autoclaved Lightweight Aerated Concrete (ALC) Under Different Compaction and Moisture Conditions</p> <p>Rathnayake NRRWS</p>
12.00-12.15 pm	<p>299</p> <p>Exploring Human-Hog Deer (<i>Axis procinus</i>) Interaction in Agricultural Landscapes of Southwest Sri Lanka: Impetus for Conservation Planning</p> <p>Fernando BVP</p>	<p>136</p> <p>Developing a Natural Toothbrush to Reduce the Non-biodegradable Wastes in the Environment</p> <p>Senanayake SIN</p>	<p>172</p> <p>Disaster Risk Reduction and Awareness; Case Study on Landslide Risk Reduction in Kegalle District, Sri Lanka</p> <p>Halwatura D</p>	<p>253</p> <p>Lipid yields and fatty acid composition of indigenous microalgae, isolated from the Beira and Diyawanna urban lakes, for sustainable biofuel production in Sri Lanka.</p> <p>Jayasekara JKDM</p>	<p>115</p> <p>Preliminary Analysis of Air Conditioner Condensate Water Generation in Buttala, Monaragala, Sri Lanka</p> <p>Jayawardhane KKDD</p>
12.15-12.30 pm	<p>259</p> <p>Spatiotemporal Habitat Use of Family Viverridae in Kumana National Park, Sri Lanka</p> <p>Rodrigo BKPD</p>	<p>166</p> <p>Graphene Oxide Coated Sand Composites as Molecular Sieves to Mitigate Water Contaminants</p> <p>Ruwanthi NMN</p>	<p>191</p> <p>Climate Change Vulnerability and Adaptive capacity of Small-Scale farmers in Imbulpe District Secretariat Division, Belihuloya.</p> <p>Liyanapathirana TNE</p>	<p>272</p> <p>Optimizing Vertical-Axis Wind Turbine Performance and Determining Optimal Velocity and Deflector Configuration Based on Wind Speed</p> <p>Lakshani WAA</p>	<p>274</p> <p>Enhancing Sustainability and Performance of Pineapple Leaf Fibers in Textile Applications: A Comprehensive Review</p> <p>Dissanayake TWMI</p>

12.30-12.45 pm	82 Identification of <i>E. coli</i> O157 strain, <i>Salmonella</i> sp. and <i>Shigella</i> sp. in Negombo Lagoon, Sri Lanka Bandara SMTV	220 The Effect of Environmental Concentrations of Metformin on Growth, Development, Sex Differentiation, and Nitrogen Metabolism of Developing Zebrafish (<i>Danio rerio</i>) Maduwanthi MPD	197 Seasonal Spatiotemporal Changes in the NDVI and Its Driving Forces in Wuliangsu Lake Basin, Northern China from 1990 to 2020 Caixia Li	304 Anatomical Study for Wood Identification of <i>Shorea</i> Species in Sri Lanka Amarasinghe WSTD	201 Aquifers Recharge Potentiality Evaluation using Bivariate and Multivariate Statistical Analysis: A Case Study in Malwathu Oya River Basin Rashmika LRU
12.45-1.00 pm	204 Acute Toxic Effects of Commercial Glyphosate on Embryonic Development of Zebrafish (<i>Danio rerio</i>) Imanthi KPA	233 Removal efficiency of Pb (II) metal ions from wastewater using base modified jack saw dust Jayasinghe DM	211 Mapping the spatial distribution of drought vulnerability in the North Central Province of Sri Lanka Gunawardhana LMAP	7 Applications of Geothermal Energy for Desalination: A Review Technological Advancement and Water Security Bellanthudawa BKA	144 Harnessing Hyper-Accumulator Plants for an Innovative Green Technology to Recover Nickel from Serpentine Soils in Sri Lanka Dilshara RMP
01.00-01.15 pm	296 Range Expansion of an Aquarium Escape: Tinfoil Barb (<i>Barbonymus schwanenfeldii</i>) in the Mahaweli River of Sri Lanka Wijesinghe M	242 Analysis of Heavy Metal in Macrophytes from Negombo Lagoon, Sri Lanka. Rathnayake RMLI	268 Preliminary indications on an atmospheric particulate matter and rainwater chemistry in Colombo, Sri Lanka: A study during southwestern monsoon Wijerathna AISS		208 Assessment of groundwater quality in Attaragoda Grama Niladhari Division in Galle, Sri Lanka Prabhashvi WAA
1.15 pm - 2.00 pm Lunch					

Time	Hall A (LT2) <i>Session 7</i> Sustainable Tourism (PHY + Online) Prof. Lalith Chandralal	Hall B (F1) <i>Session 12</i> Citizen Science Forum (Young Environment Symposium) (PHY + Online) Prof. Hiran Amarasekara	Hall C (LT3) <i>Session 01</i> Forest and Natural Resource Management –Part 4 (PHY) Prof. Nilanthi Dasanayaka	Hall D (Blended Learning C. Hall-1) <i>Session 03</i> Waste Management and Pollution Control - Part 4 (Online + PHY) Dr. Asela Dikkumbura	Hall E (Blended Learning C. Hall-2) <i>Session 13</i> Poster Session – Part 6 (Online) Dr. Randika Jayasinge
2.00-2.15 pm	188 Impact of Agro-tourism on Travel Experiences of Domestic Tourists in Sri Lanka Gnanathilaka LPSD	29 Recovery of A Rocky Shore at Mount Lavinia Following Extirpation of Its Biodiversity Fernando M	37 Phytochemical Screening and <i>In Vitro</i> Antimicrobial Activity of <i>Desmodium triflorum</i> against <i>Escherichia coli</i> , <i>Enterococcus faecalis</i> , and <i>Klebsiella pneumonia</i> Kavindi KDS	112 Contamination of buried plastic marine litter on sandy beaches in the West Coast of Sri Lanka. Rajakumar D	8 Efficacy Of Flavonoids from The Selected Plants in Controlling <i>Callosobruchus maculatus</i> on Cowpea Seeds (<i>Vigna unguiculata</i>). Karunakaran S
2.15-2.30 pm	238 Sustainable Coastal-Based Tourism in Southern Sri Lanka: Assessing the Potentials of Blue Flag Certification's Criteria Thirukeswaran S	33 Preliminary Survey of Ants (Hymenoptera: Formicidae) in Dombagaskanda Forest Reserve, Sri Lanka. Wijewardana MPDS	44 A Comparative Analysis of <i>Piper longum</i> and <i>Piper sarmentosum</i> Utilizing Thin-Layer Chromatography and Gas Chromatography-Mass Spectrometry in Exploring the Potential in Sri Lankan Traditional Medicine Uyangoda ISSC	113 Fish Scale Derived Bio Sorbents for the Removal of Organics from Greywater Suntharalingam Y	43 The Effect of Rhizospheric Fungal Species of Tomato (<i>Solanum lycopersicum</i> L.), on In-Vitro Growth of the Tomato Early Blight Pathogen Fernando WCJO
2.30-2.45 pm	137 Investigation into the environmental sustainability actions adopted by Small and Medium Enterprises (SME) of the accommodation and tour operator sectors of Sri Lanka Weerasinghe MAMT	110 Investigation of the Locomotory Behaviors of Water Striders (Gerrini) Jayawardena ADW	69 Review of Utilizing the Phytochemicals of <i>Ocimum sanctum</i> and <i>Plectranthus amboinicus</i> for Novel Herbal Product Development in Sri Lanka Uyangoda ISSC	282 Current techniques in density separation, identification methods, and characterization of microplastics in sedimentary environments: A comprehensive review of current studies Dasanayake SRSS	93 Antifungal Activity of Selected Indigenous Medicinal Plants in Sri Lanka Against Candida Infections Dilrukshi KT

2.45-3.00 pm	170 Assessing the Ecotourism Potential in Sarasalai-Kuruvikkadu and Adjacent Areas in the Jaffna Peninsula, Sri Lanka Packiyathan R	121 Zonal distribution of biota on the sheltered side of intertidal rocks at Mount Lavinia. Athauda AADR	182 Isolation of Salt-Tolerant Enzyme-Producing Bacteria from Marine Environments in Sri Lanka for Industrial Applications Razan MF	285 Comparing the fate of biodegradable products in seawater under laboratory and natural conditions Wijetunge DS	101 Comparative Analysis of Physiochemical Properties and In Vitro Antioxidant Potency Among Morphotypes of <i>Centella Asiatica</i> Grown in Sri Lanka Perera KGGT
3.00-3.15 pm	277 Adaptive Reuse of Old House into Boutique Hotels: An Approach to Market Architectural Heritage Seenapatabendige KB	245 Cellulase Activity of the Halophilic Fungal Degraders Amani NAFR	240 Characterization of <i>Nephelium lappaceum</i> and <i>Schleichera oleosa</i> Seed Oils for the Potential Applications in Cosmetics and Dietary Supplements Thathsara KAH	261 Removal of Ciprofloxacin from aqueous media using dendron biochar Attanayake AMPM	156 Microplastic Contamination in Seafood: Knowledge and Awareness of Fishermen and Consumers in Negombo Lagoon Area Ranathunga RMMHP
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3.30-3.45 pm		<p>163</p> <p>Investigating Foraging Behavior Patterns of <i>Porphyrio poliocephalus</i> (Grey-Headed Swamphen)</p> <p>Samarajeewa SM</p>		<p>273</p> <p>Beach Cleanliness Using the Clean Coast Index at A Recreational Beach: A Case Study of Charty Beach, Northern Sri Lanka</p> <p>Shobiya G</p>	<p>283</p> <p>Analytical Methods for Extraction of Microplastics from Compost in Sri Lanka</p> <p>Perera PPP</p>
3.45-4.00 pm		<p>164</p> <p>Faunal Diversity Assessment in the newly established Left Bank of Kalu River Mouth: Implications for Ecosystem Restoration</p> <p>Ranasinhage CLN</p>			
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