

International Symposium on Agriculture & Environment (ISAE 2026)

📍 Cinnamon Grand, Colombo

TECHNICAL SESSION VENUES

LEGEND

➔ Entrance

👤 Registration

🪜 Token Checking



EBONY

- 🕒 11.00 – 1.00 pm
YGF Poster Presentation
- 🕒 02.00 – 4.00 pm
Soil, Plant & Environment
- 🕒 04.00 – 6.00 pm
Agricultural Engineering
Technology & Digital Intelligence



IVY I

- 🕒 11.00 – 1.00 pm
Belt & Road Session I
- 🕒 02.00 – 4.00 pm
3MT
- 🕒 04.00 – 6.00 pm
Belt & Road Session II



IVY II

- 🕒 11.00 – 1.00 pm
Agricultural Economics,
Extension and Agribusiness
- 🕒 02.00 – 4.00 pm
Trends in Biological Research
for Sustainable Development
- 🕒 04.00 – 6.00 pm
Food Science and Post
Harvest Technologies



MAHOGANY

- 🕒 11.00 – 1.00 pm
Plenary Session
- 🕒 02.00 – 5.00 pm
YGF Oral
Presentation



ATRIUM

- 🕒 01.00 – 2.00 pm
Lunch
- 🕒 03.00 – 4.30 pm
Poster Session



ISAE
2026

ENTRANCE

★ Please carry your delegate badge for all sessions.

ISAE 2026, Technical Session Schedule

Contents

Belt and Road Session (I) Oral Virtual Session (Morning)	3
Belt and Road Session (II) Oral Virtual Session (Afternoon)	4
3 MIT Session, Oral Session.....	5
Agricultural Economics, Extension and Agribusiness, Oral Session	7
Trends in Biological Research for Sustainable Development, Oral Session	8
Food Science and Post Harvest Technologies, Oral Session.....	9
Soil, Plant and Environmental Sciences Session, Oral Session.....	10
Agricultural Engineering, Technology and Digital intelligence, Oral Session	11
Young Graduate Forum, Oral Session	12
Young Graduate Forum, Poster Session	14
Trends in Biological Research for sustainable Development (Poster).....	16
Agricultural Economics, Extension and Agribusiness (Poster)	20
Food Science and Post Harvest Technologies (Poster).....	20
Soil, Plant and Environmental Sciences (Poster)	22
Agricultural Engineering, Technology and Digital intelligence (Poster)	24

Technical Session Schedule ISAE 2026

Belt and Road Session (I) - Oral Virtual Session (Morning)

Co-organized by China-Sri Lanka Belt and Road Joint
Laboratory of Tea Ecological Control, Guizhou University,
China & Central China Normal University, China

11.00 - 1.00 p.m. Chairperson: Snr. Prof. W. A. D. P. R. Ratnasekera

(Hall: Ivy I) Convener: Prof. A. Mannakkara

ID	Title and Authors
32	Screening of rice advanced inbred lines for salinity and submergence tolerance based on saltol and sub1 molecular markers. U.G. Taniya, M.C. Millawithanachchi, N.V.T. Jayaprada
49	Immunoinformatics-based design and <i>In vitro</i> evaluation of a multi-epitope DNA vaccine against <i>Edwardsiella piscicida</i>. Dhananjaya Gamage G.K., Nikapitiya C., Mahanama De Zoysa
85	Effects of snowpack on carbon, nitrogen, and phosphorus contents of grass roots in alpine meadow species in Qinghai-Tibet Plateau, China. W.M.N.K.K. Kulasinghe, K.L. Wasantha Kumara, Anuga Liyanage, W. Changting
125	Enhancing secondary metabolite profiles in <i>Mentha spicata</i> via targeted narrow-band Phototherapy. A.P. Kulavithanage, H.N. Kulavithanage
140	Determination of activity of a udp-sugar regeneration system for flavonoid glycosylation using gmsus coupled yjc. Polwatte Koralalage Darshika Sandamini, Libo Zhang
161	Biochar regulation of soil water dynamics: Integrating hydrophobicity and water retention for sustainable agricultural management. Yue Liu, Jiefei Mao, Kun Zhang
162	Interactions between microplastics, soil carbon, and biochar in agricultural soils. Wenlong Yao, Kun Zhang, Jiefei Mao
163	Mechanisms and applications of modified biochar in saline-alkali soil amelioration. Cuijuan Liu, Kun Zhang, Jiefei Mao

Belt and Road Session (II) - Oral Virtual Session

**Co-organized by China-Sri Lanka Belt and Road Joint
Laboratory of Tea Ecological Control, Guizhou University,
China & Central China Normal University, China**

4.00-6.00 p.m.

Chairperson: Dr. AAM Subodinee

(Hall: Ivy I)

Convener: Dr. WBMAC Bandara

ID	Title and Authors
1	Design and usability evaluation of “greenmart”: a user experience engineering approach to promote sustainable online shopping A.M.V.D. Abeysinghe, K.R.A.R. Jayathilaka, H.M.A.M. Wijerathne, M.S. Hafsa, and B.M.G. S.T. S.K. Wickramasinghe
2	Plantify: A user-centred mobile application for sustainable urban plant care M.R. Amani, M.F.F. Farha, M.M.F. Muzna, H.F. Zeenath, and B.M.G.S.T.S.K. Wickramasinghe
6	ShinyStat: an integrated web-based platform for one-way anova and publication-ready xrd and uv-vis visualization H.K.S. Madusanka, A.G.B. Aruggoda, and D.M.P.V. Dissanayaka
10	Development of pine needle (<i>Pinus roxburghii</i>) powder reinforced biodegradable cassava starch films for sustainable food packaging P.M.U.I. Dissanayaka, K.M.S.A.K. Dehideniya, and R.S. Akshana
22	Autonomous ai-driven monitoring for large-scale composting: a mechatronic approach to reducing greenhouse gas emissions and spontaneous combustion B.Y.C. Fernando, W.M.S.R. Weerasinghe, Ranathunge S.N., Vakeeson D., and D.H.R.J. Wimalasiri
47	Identification of the level of presence of heavy metals in commercial broiler finisher feeds in Sri Lanka S. Nithusan, Chathuri Koralage, Dr. M.W.G.D. Palliyeguru, and Hemanivashini Elango
92	UV-VIS HADP profiling for authenticity screening of cane sugar adulteration in coconut toddy HMHR Herathmenike, BAT Amalka, KM Binduhewa, CK Dissanayake, and JWA Sajiwanie
134	Effect of plant spacing and establishment method on yield and biomass distribution of mukunuwenna (<i>Alternanthera sessilis</i> L.) A.N. Wijewardhana, B.A.H. Nimaya, H.M.S. Piumal, H.A.P.A. Shyamalee, and A.L. Ranawake

3 MIT Session -Oral Session

2.00-4.00 p.m.

(Hall: Ivy I)

Keynote by Ms. Swati Sharma

Editor, Books Life Sciences

Springer Nature

Chairperson: Prof. SD Wanniarachchi

Convener: Ms. Madhuri Samaraweera

Evaluators:

Mr. Ranjith Bandara

Mr. Dimuthu Hewamanage

Mr. Waruna Madawanaarachchi

Abstract ID	Host Organization / Institution and Author
1	Amsafe Bridport (Pvt) Ltd K.L.B. Nipunika
2	Gap (Pvt) Ltd Vigneswaran Nirthani
3	Noyon Lanka (Pvt) Ltd W.T. Dinuprabha
4	Naresuan University, Thailand K. Keerthana
5	Board of Investment – Katunayake Environment Management Department N.W.M.E.S. Navarathne
6	Sri Lanka Institute of Nanotechnology (SLINTEC) A.A.P.M. Amarasinghe
7	AmSafe Bridport (Pvt) Ltd A.R.A. Rodrigo
8	Cap Organic (Pvt) Ltd A.W.S. Madhumali
9	Pelwatte Dairy Industries Ltd A.D. Samarawickrama
10	Ceylon Grain Elevators PLC S.A.R. Kavindhya
11	CIC DAIRIES W.M.S.U. Wijesinghe
12	CIC Agribusiness Unit (CIC Seed Farm, Pelwehera) R.A.D.Y. Ranaweera
13	Guizhou University, Guiyang, China K.A.K. Dilrangi
14	Weehena Farms P.H.H.K. Hewage

15	Synapse Solutions (Pvt) Ltd H.M.S. Kavinda
16	Unilever Sri Lanka A.D. Liyanage
17	Ceylon Biscuits Limited (Pvt) Ltd P.B.S.N.M.M.H.C. Kumarihami
18	Switz Lanka (Pvt) Ltd H.M.N.Y. Wickramasinghe
19	CIC Croup Guard (Pvt) Ltd A.G.S. Wishmitha
20	Graduate Associate Professionals (Pvt) Ltd M.P.S. Samadhi

Agricultural Economics, Extension and Agribusiness Session- Oral Session

11.00 a.m.-1.00 p.m. Chairperson: Dr. D. N. Koralagama

(Hall: Ivy II)

Convener: Ms. MAMI Perera

Keynote by Dr. Beria Leimona,

Theme Leader Climate change, Energy and Low Carbon

**Development, Principal Scientist Landscape Governance and
Investment, Landscape Alliance**

ID	Title and Authors
12	Sustainable biogas production from cow dung and food waste: a community-level implementation study E.R.V.V. Ranasinghe, O.V. Kasthuriarachchi, A.K.P. Kaushalya, K.V.S.K. Jayasiri, P. Miruban, U.G.H. Kavindi, D.M.H.M.B. Dissanayake, J.M.S.L.D.B. Jayasundara, P.G.L. Ruwani, P.N.L.R. Jayanath, and E.P.S. Chandana
43	Application of farmer field school approach to the extension system: a field experience T. Vijayakumar and M. Wijeratna
48	Performance determinants of women entrepreneurs in small and medium enterprises in mannar district M. Abiramy and S. Sarujan
96	Impact of employee green behavior and employee motivation towards organizational sustainability performance M.M.S.P. Suriyabandara, M.A.P.D.P. Wickramaratne, and S.M. Jayasinghe
117	Potential for green training in the batik-making process: a case study of the kegalle district K.P.H.P. Senarathne, W.K.M. Tissera, and M.A.P.D.P. Wickramaratne

Trends in Biological Research for Sustainable Development Oral Session

2.00 -4.00 p.m.

(Hall: Ivy II)

Chairperson: Snr. Prof. K. L. Wasantha Kumara

Convener: Dr. M. D. P. Kumaratunga

**Keynote by Prof. Libo Zhang, Guizhou University,
China**

ID	Title and Authors
31	Molecular diversity and pathogenicity analysis of the rice false smut pathogen (<i>ustilaginoidea virens</i>) in selected regions of Sri Lanka M.G.A.U. Mahawatta, C. Ranasinghe, N.V.T. Jayapradha, and U.M. Aruna Kumara
67	A hydrogen transfer strategy for c-h functionalization: building bioactive molecular scaffolds with herbicidal activity Guozhu Zhang, Haijing Xiao, Jialian Zhen, Sijia Li, He Zhang, Zhenzhe Wu, Kai Li, Beibei Yi, and Rui Guo
84	Repeated compost inputs as a strategy for soil carbon sequestration in tropical sri lankan cereal-legume crop rotations Anuga Liyanage
98	Octenol as a novel fumigant against invasive fire ants: disrupting social behavior through fatty acid and olfactory pathway interference Xiaohua Huang, Amr Mohamed, Menghai Tian, Tongya Xiao, M.D.A.M. Perera, K.K. Sandaruwan, W.M.W.W. Kandegama, and Wei Zhang
121	Brood-driven demand and colony size constraints regulate foraging efficiency in <i>apis cerana indica</i> B.D. Eaton, D.D.S. Lihinikaduwege, and W.W.U.I. Wickramaarachchi

Food Science and Post Harvest Technologies, Oral Session

4.00 p.m.-6.00 p.m.
(Hall: Ivy II)

Chairperson: Snr. Prof. V.S. Jayamanna
Convener: Ms. A. P. H. I. Abeyesuriya
Keynote by Dr. Tahir Munir Butt, Okara University of
Agriculture, Pakistan

ID	Title and Authors
44	Rapid FTIR screening of sugar adulteration in sri lankan bee honey using chemometrics G.D.A.L. Senarathna, K.M. Binduhewa, B.A.T. Amalka, C.K. Dissanayake, and T.C. Kananke
53	Valorization of palmyrah fruit caps as a novel plant-based reductant in the green synthesis of silver nanoparticles L.M.T. Dias, Kaveenga R. Koswattage, T.C. Kanake, and J. Mary
78	In Vivo investigation of pesticide residues in garlic using solid phase microextraction-gas chromatography-mass spectrometry Chen Tiantian and Xu Hui
83	Data-driven FTIR-based classification of black tea for geographical origin authentication Kasun Binduhewa, Thilini Amalka, Champa Dissanayake, Nadeeka Damayanthi, Rohana Chandrajith, Saman Hettiarachchi, Mahasen Ranatunga, and Nelum Piyasena
95	Machine learning and chemometrics-based detection of sugar adulteration in black tea using uv-visible spectroscopy Nadeeka Damayanthia , Kasun Binduhewaa*, Thilini Amalkaa, Champa Dissanayakea

Soil, Plant, and Environmental Sciences Session, Oral Session

2.00 p.m.-4.00 p.m.
(Hall Ebony)

Chairperson: Emeritus. Prof. RB Mapa
Convener: Dr. TDP Liyanage
Keynote by Prof. Richard Harper, School of Agricultural Sciences, Murdoch University, Australia

ID	Title and Authors
27	Temperature alters the monensin induced stress responses in white clover (<i>Trifolium repens</i> L.) seedlings B. Manawadu, M.D.H.J. Senavirathna, and T. Fujino
133	Effects of nano-silica and chitosan seed priming on root architectural traits of maize seedlings under drought stress A.A.P.M. Amarasinghe, N.D.M. Kodikara, T.D.M. Gimhani, G.H. Thiranagama, Chanaka Sandaruwan, and H.W.K.S.L. Kumara
141	Evaluating the mineralization dynamics of different compost pellets P.V.G.M. Malshi, G.N. Rupasinghe, and S.R. Amarasinghe
156	Effect of different pollen diluents on pollination success in hybrid green chili (<i>Capsicum annuum</i> L.) seed production under protected conditions G.D.R.S. Wijesinghe, W.M.A.M. Karunaratne, and H.K.M.S. Kumarasinghe
164	Salicylic acid-dependent coordination of plant immunity and longevity Jinyu He, Wei Li, Yunsheng Yang, Panqi Qiu, Huijie Liu, Junli Zhang, Yiping Zou, Yuanli Wang, Yixuan Yang, Junqi Hou, Haiqiao Yan, Zilu Zhang, Hao Han, Laiqing Lou, Qingsheng Cai, Fengquan Liu, Zheng Qing Fu, Ran Wang, and Ming Chang

Agricultural Engineering, Technology and Digital intelligence, Oral Session -

4.00-6.00 p.m.

Chairperson: Prof. S. Wijethunga

Convener: Dr. PP Ruwanpathirana

(Hall: Ebony)

**Keynote by Prof. Daniel Blackburn, Sultan Qaboos
University, Oman**

ID	Title and Authors
73	Deep feature fusion with vegetation indices for wheat lodging detection using UAV multi-spectral imagery Wei Zhou, Yahui Guo, and Yuhong He
103	Enzyme-responsive functionalized lignin nanoparticles for synergistic pesticide-fertilizer delivery Chen Zhao, Zhixiang Zhang, and Rongjie Yang
124	Practical method for the large-scale synthesis of 4'-chloro-2-nitrobiphenyl: a key intermediate of boscalid Rui Guo, Sixuan Meng, Jian Chen, Qiong Chen, and Guang-Ao Yu
127	Engineering nanozymes at the atomic scale for enhanced sensing Chengzhou Zhu
138	The ontology-based ai framework for precision diagnosis and treatment of coconut diseases and pests in Sri Lanka Kavindya Gunawardhana, Anusha Walisadeera, and Tharanga Shanadi
160	Smart girth measuring device for monitoring immature rubber plantations K. Fernando, K.W.D. Kasun, P.K.P.Y. Gamage, and K.K.L.B. Adikaram

Young Graduate Forum Oral Session

2.00-5.00 p.m.c

(Hall: Mahogany)

Chairperson: Prof. Thaksala Serasinghe

Convener: Ms. WKM Tissera

Keynote by Mr. Tharusha Wanigasekara

Manager of Digital Innovation and Inclusion, Dialog Axiata PLC

Evaluators:

Prof. RAUJ Marapana

Mr. Indika Gunawardena

Dr. Thilanka Ariyawansa

ID	Title and Authors
2026_01	Impact of inoculation of <i>Trichoderma harzianum</i> and <i>Verticillium chlamydosporium</i> into potting mixture for controlling root-knot nematode in curry chili cultivation under protected- house condition H. Yoganathan and H.K.M.S. Kumarasinghe
2026_02	Optimization of poultry litter–rice straw substrates for black soldier fly larvae production: impacts on growth, protein yield, and waste reduction N. Mithushika, N.S.B.M. Atapattu, W.T.L. Fonseka, and L.B. Perera
2026_03	Processing effects on the chemical composition of <i>Scutellaria baicalensis</i> (Huangqin) roots M.A.P.M. Premarathne, L. Mingkun, H. Dong, P.A.B.N Perumpuli
2026_04	Valorization of paddle-dried pome solid waste for potassium-rich organic liquid fertilizer production W.M.S.D. Bandara, C.P. Rupasinghe and R. Chandrabose
2026_05	Determination of the economically optimum ratoon cycle in sugarcane cultivation in sevanagala, sri lanka K.J.N.T. Weerasinghe, K.N.N. Silva and B.D.S.K. Ariyawansha
2026_06	Financial literacy and financial inclusion among welfare-supported self-employed women: evidence from matara District, Sri Lanka KLB Nipunika, WN De Silva and MCD De Silva
2026_07	Modelling the combined effects of rainfall variability and land cover changes on landslide hazard: a case study of ginigathhena, central province, Sri Lanka V. Nirthani, C.S. Bandara and G.Y. Jayasinghe

2026_08	Innovation capabilities in agricultural R&D institutes In Sri Lanka: evaluating the performance and challenges W.T. Dinuprabha and K.N.N. Silva
2026_09	Digital twin–artificial neural network framework for thermal comfort and energy optimization: validation in a Jaffna building and applications across Sri Lankan climatic zones K. Keerthana, W.A.D.C.S. Perera, A. Kanagarathnam, M. Probodani, R. Halwathura and G.Y. Jayasinghe
2026_10	Effects of water repellency levels on carbon dioxide Emissions from soil incorporated with organic Amendments N.W.M.E.S. Navarathna, T.D.P. Liyanage and D.A.L. Leelamanie
2026_11	Optimization of culture conditions for enhanced growth and sporulation of Magnaporthe oryzae A.A.P.M Amarasinghe, N.P Ranathunge and D. Ratnasekera

Young Graduate Forum, Poster Session

11.00 -1.00 p.m.

Convener: Dulesha Wijerathne

(Hall: Ebony)

Evaluators:

Prof. Hemantha Jayasooriya

Dr. Chandra Padmini

Mr. Rohitha Dabarera

ID	Title and Authors
2026_P1	Study on pathological findings in lungs of African swine fever-infected pigs in Sri Lanka S. A. R. Kavindhya, S.A.S. Indunika, I. N. Pathirana, K. K. Wijesundera
2026_P2	Quality and consumer preference of butternut squash (<i>Cucurbita moschata</i>) puree incorporated non-fat drinking yoghurt Samarawickrama A. D. And Narayana N. M. N. K.
2026_P3	Potential of <i>Trichoderma harzianum</i> genbank MZ423064.1 for sustainable mycoprotein production in food and feed industry Yathusha, V., Divisekara, D. M.W. D., Hiruni Wimansa, K. G. D., Perumpuli, P. A. B. N.
2026_P4	Separation and purification of flavonoids from <i>Abelmoschus manihot</i> flower by D101 RESIN Perera P.T.N., Yingjian Guo, Jinqian Yu, Perumpuli P.A.B.N.
2026_P5	Assessing export readiness of the small and medium Enterprises in the agriculture sector in Sri Lanka Rodrigo A.R.A., Silva K.N.N., Munasinghe N.N
2026_P6	The impact of exchange rate movements on coconut kernel-based product exports in Sri Lanka Hewage PHHK, Silva KNN, and Jayalath KVNN
2026_P7	Public perception and communication effectiveness related to central bank of Sri Lanka (CBSL): trust and institutional credibility in the western province Thilakarathne MJN, KNN Silva, and Ekanayake H
2026_P8	Adaption and effectiveness of drip irrigation system among smallholder chili farmers in Vavuniya district: A case study of agriculture sector modernization project J. Ramaraj and M.A.P.D.P. Wickramaratne
2026_P9	Export competitiveness and exporter constraints in sri lanka's coconut sector AMM De Silva, WN De Silva, MAMI Perera, GI Wijayathilake, J Galagedara

2026_P10	Determination of hydraulic properties and water repellency index in sandy soils A.D. Liyanage, D.A.L. Leelamanie, H.I.G.S. Piyaruwan, and U.I. Samarawickrama
2026_P11	Effects of water repellent levels induced by organic amendments on water stability and carbon retention of model soil aggregates R.M.N.N. Rathnayake, D.A.L. Leelamanie and H.I.G.S. Piyaruwan
2026_P12	Predicting tea (<i>Camellia sinensis</i>) leaf polyphenol content from uav multispectral vegetation indices K.G.S. Nimasha, G.Y. Jayasinghe, K.T. Ariyawansa
2026_P13	Design and development of an autonomous robotic hand for papaya latex extraction N.A.R. Lakmal, K.M.T.S. Bandara, K. Anupa, E.U.U. Rathnathunga
2026_P14	Integrating agrivoltaic systems in tea cultivation: effects of shading and led supplementation on growth, yield, and quality H.M.S. Shammika, C.P. Rupasinghe, J. Ekanayaka
2026_P15	Integrating UAV multispectral vegetation indices with machine learning for accurate block-level tea yield forecasting in low-country Sri Lanka R.M.M.N. Ranasingha, W.G.M Randika, W.B.M.A.C. Bandara, G.Y. Jayasinghe
2026_P16	Quantifying blue carbon stocks in reef-lagoon seagrass meadows of Adukkuparu, Trincomalee, Sri Lanka: insights and field-based challenges R.M.N.T. Rathnayaka, M.G.G. Awanthi, S. Udagedara, B.K.A. Bellanthudawa
2026_P17	Development of an efficient <i>In Vitro</i> propagation protocol for large-scale multiplication and conservation of <i>Salacia reticulata</i> (Kothalahimbutu) I.B.M.D.I. Irugalbandara, W. M. A. C. Premasiri and D.L.C.K. Fonseka
2026_P18	Optimization of an <i>In Vitro</i> propagation protocol for efficient mass production of <i>Murraya koenigii</i> (L.) Spreng. plantlets W.D. Weerathunga and D.L.C.K. Fonseka
2026_P19	Enhancing efficiency and yield of <i>Schizophyllum commune</i> through electric and acoustic stimuli K.A. Kithmini Diltrangi, Surani. S. Ediriweera, Chandrika M. Nanayakkara, K.L. Wasantha Kumara
2026_P20	Comparative efficacy of six Sri Lankan cinnamon bark hydrosols in controlling post-harvest anthracnose of banana (var. Ambul) R. Sivaskaralingam, N.P. Ranathunge, B. Perumpuli, S. Geekiyanage

Posters in Technical Stream I

3.00-4.30 p.m.
(Hall: Atrium)

Chairperson: Dr. DM Gamage
Dr. WWUI Wickramarachchi

Trends in Biological Research for Sustainable Development, Posters

ID	Title and Authors
3	Evaluation of antibiosis resistance in Sri Lankan <i>Oryza nivara</i> populations to brown planthopper (<i>Nilaparvata lugens</i>) W.J.A.P.M. Jayasooriya, D.M.A.D. Bandara, K.S.J. Madushanka, K.P.L. Arosha, W.L.S.M.I. D.M. Thilakarathne, Disna Ratnasekera, and Amani Mannakkara
9	Effectiveness of natural and synthetic attractants on fruit fly assemblages (<i>Bactrocera</i> and <i>Zeugodacus</i> spp.) in a snake gourd field Udekumari P.G.N.C., Wijekoon W.M.C.D., and Wegiriya H.C.E.
11	Impact of natural biofilter media on water quality and growth performance of platy (<i>Xiphophorus maculatus</i>) in a recirculating aquaculture system Perera S.R.V., Bandara E.G.K.Y.C., and Radampola K.
18	Occurrence and distribution of microplastics across the growth stages of cultured <i>Penaeus vannamei</i> in Puttalam district, Sri Lanka Chandradasa M.D., Rathnapala J.M.S.N., and Bandara A.M.K.A.
26	EHP infection, water quality & <i>Vibrio</i> abundance in pacific white shrimp (<i>Litopenaeus vannamei</i>) farming in Sri Lanka S. Beulah, Dr. P.P.M. Heenatigala, and Dr. S. Thatchaneshkanth
45	Epidemiology of <i>Subclinical Mastitis</i> in dairy cows in five selected veterinary ranges in Monaragala District, Sri Lanka: Bacterial etiology and antimicrobial resistance R.M.D.N. Dissanayaka, H.K.R.S. Kumara, and I.N. Kumaravithana
66	Dietary effects on growth and survival of early juvenile Sandfish (<i>Holothuria scabra</i>) Ranasinghe K.S.I., Mallawa Arachchi M.A.J.C., Shashikala H.A.H., and Herath S.S.

ID	Title and Authors
69	Effects of water spinach (<i>Ipomoea aquatica</i>) on growth and body coloration of southern platy fish (<i>Xiphophorus maculatus</i>) Yatiwella Y.K.T.D.B., Gamage K.R., and Herath S.S.
75	AI-guided discovery of an efficient chitinase enables green production of chitobioses with distinct cadmium stress-alleviating efficacy in rice Youbo Yu, Jin Huang, Wei Wang, Jielin Tian, Li Yang, Lisha Yan, Liping Zhan, Janaki Mohotti, Liang Hong, Pan Tan, Gefei Hao, and Libo Zhang
97	Identification of temporal dietary shifts in fish species based on stable isotope assessment B. A.T. Amalka , W. H. M. Wijenayake, D. M. Rajapaksha, K. M. Binduhewa, R. H. M. N. P. Rathnayake, N. K. Thilakarathne, P. G. I. Malshan, T. L. Weerakkody, C. K. Dissanayake.
104	Assessment of morphological diversity among selected 18 cassava (<i>Manihot esculenta</i> Crantz) accessions in sri lanka at the vegetative stage D.P. Ritigahapola, T.S. Hewavitharana, V.G.A. Vishwajith, H.A.P.A. Shyamalee, and A.L. Ranawake
106	Diversity analysis of selected mung bean (<i>Vigna radiata</i> L.) accessions in Sri Lanka S.N.N. Mendis, T.S. Hewavitharana, B.N. Samaranayaka, H.A.P.A. Shyamalee, and A.L. Ranawake
107	morphological characterization and yield evaluation of selected <i>dioscorea</i> genotypes in Sri Lanka I.B.M.H.R.I. Bandara, S.M.A.U. Samarasinghe, A.K.K. Madushani, N.M. Vidanapathirana, W.M.S. Gunasekara, H.A.P.A. Shyamalee, and A.L. Ranawake
108	A preliminary study on performances of selected 16 cowpea (<i>Vigna unguiculata</i> L.) genotypes and their diversity A. Karunanayaka, T.S. Hewavitharana, B.N. Samaranayaka, H.A.P.A. Shyamalee, and A.L. Ranawake

ID	Title and Authors
109	Exploiting natural variation in root nodulation among selected cowpea (<i>Vigna unguiculata</i> L. Walp.) genotypes in Sri Lanka J.A.D.S. Abesinghe, T.S. Hewavitharana, B.N. Samaranayaka, H.A.P.A. Shyamalee, and A.L. Ranawake
110	Assessment of nodulation efficiency and trait relationships in mung bean genotypes under low-input conditions S.S.K. Hettiarachchi, T.S. Hewavitharana, B.N. Samaranayaka, H.A.P.A. Shyamalee, and A.L. Ranawake
111	Exploring the morphological diversity of pinwheel flower (<i>Wathusudda: Tabernaemontana divaricata</i> L.) in Southern Sri Lanka D.P. Ritigahapola, S.R. Amarasinghe, and A.L. Ranawake
114	Characterization of morphological diversity in red shoe flower (<i>Hibiscus rosasinensis</i>) accessions using multivariate analysis N.K.S.N. Wimalasena, K.L.T. Sewwandi, S.A.V.I. Sooriyaarachchi, D.P. Ritigahapola, and A.L. Ranawake
129	Biological control of <i>Halyomorpha halys</i> with Egg parasitoids: Current status and perspectives Cheng-Ming Song, Yong-Ming Chen, Adeney de F. Bueno, Haneef Tariq, Jin-Ping Zhang, and Lian-Sheng Zang
137	Enhancing <i>Mesocomys</i> Egg parasitoids' fitness: temperature modulation during immature stage boosts reproduction and biocontrol capacity Ao-zhanmei
148	Host age preference and performance of three brachypterous anastatus parasitoids on riptortus pedestris eggs reveal a female-biased candidate for managing soybean stay-green syndrome Cheng-Chao Hu, Ying Zhang, Haneef Tariq, Asad Ali, Adeney de F. Bueno, Yi Li, Fabrizio Lisi, K.M.D.W.P. Nishantha, Yong-Ming Chen, and Lian-Sheng Zang
149	Performance of five egg parasitoids of the genus <i>Anastatus</i> on eggs of <i>Riptortus pedestris</i> of different ages

ID	Title and Authors
	Cheng-Chao Hu, Yong-Ming Chen, Ying Zhang, Haneef Tariq, Yi-Ting Li, Asad Ali, Adeney de F. Bueno, Lian-Sheng Zang
150	Morphological characterization and diversity analysis of 34 <i>Ixora</i> accessions in Southern Sri Lanka M.A. Samaraweera, I.B.M.H.R.I. Bandara, and A.L. Ranawake
159	Soil and sediment compression from manually driven cores: a baseline study for blue carbon science from Sri Lanka T.W.S. Warnasuriya, A.M.N.N. Bandularathna, I. Lenarolle, T. Mathiventhan, Farid Dahdouh-Guebas, and K.A. Sunanda Kodikara

Posters in Technical Stream II

3.00-4.30 p.m.

Chairperson: Dr. KNN Silva

(Hall: Atrium)

Ms. TAD Sewwandi

Agricultural Economics, Extension and Agribusiness, Poster Session

ID	Title and Authors
35	Post-COVID constraints and sustainability of micro and small-scale women floriculture entrepreneurs in Matara district, Sri Lanka K.A.I. Ariyaratna, N.M.Y. De Silva, M.D.A. Madhubhashani, R.M.S.S. Nawarathne, and T.P.L.N. Thewarapperuma
82	Quality assessment of ice used in the fish supply chain in Dondra Sooriyabandara S.K.A.A.D., Herath S.S., and Bandara E.G.K.Y.C.
100	Impact of SME customer orientation strategies adopted by the banks on sme customer satisfaction and loyalty: Case study in public sector bank A.K.M. Fonseka, M.A.P.D.P. Wickramaratne, and T.A.D. Sewwandi
161	The impact of green banking adoption practices (gbap) on banking performance B H M G S Herath, R M C Kumari

Food Science and Post Harvest Technologies, Poster Session

ID	Title and Authors
8	Development of a plant-based functional soy milk fortified with <i>Encapsulated Spirulina</i> K.H.M.C. Thilakarathna, N.W.S.N. Rasanduni, H.C.C. De Silva, K.H.T. Karunarathne, and K.N. Wijayasekara
17	Assessment and validation of phthalate migration from plastic packaging into oil simulants H.M.D.S. Bandara, T.C. Kananke, K.G.P.N. Bandara, and E.S. Suranga
19	Evaluation of nutraceutical potentials of mee (<i>Madhuca longifolia</i>) flowers and seeds T.G.N.Danushika, T.C.Kananke, M.G.A.N.Perera
20	Nutritional enhancement through germination: A comparative Evaluation of pearl millet grains and microgreens for functional food application Taniya A.K. and S. Vasantharuba

ID	Title and Authors
23	Functional properties of a spice cube fortified with chicken bone powder and a mixture of leafy greens T. Nixson and M.C.N. Jayasooriya
29	Evaluation of the antioxidant properties of lime-waste V. Sivasamalai and S. Vasantharuba
34	Development of <i>Moringa oleifera</i> powder enriched vegetable burger patties and computational characterization of their bioactive compounds (Quercetin, Rutin, Kaempferol) B.D.I. Tharangani, L.P.M. Rathnayake, M.K.L. Lakshani, K.N. Wijayasekara, K.H.T. Karunarathna, and A.W.A.T. Dilhan
52	Development and quality evaluation of a value-added tilapia fish cake Fonseka W.A.T., Rathnapala J.M.S.N., Sanuja R.G., and Fernando G.S.N.
65	Evaluation of fruit quality attributes during post-harvest storage of tomato genotypes (<i>Solanum lycopersicum</i> L.) in Sri Lanka W.M.H.I. Wijekoon; N.V.T. Jayaprada*
79	From banana to Spread: Development and quality assessment of ambul banana-chocolate spread W.A.P.P. Kumara, H.M.P.D. Bandara, K.V. Sandunuka, P.K. Thudugala, W.M.C.M. Malalasekara, N.K.H.K. Dharmasena, and P.A.B.N. Perumpuli
91	Characterization of kithul (<i>Caryota urens</i> L.) flour as a bioactive food ingredient: its physicochemical and functional evaluation KAPN Karunarathna, VS Jayamanne, P. Ranasinghe, and MKDK Piyaratne
123	Development of a starter culture for vinegar production using local isolates WP Warnakula and SMK Widana Gamage
154	Development of a low-cost arduino-based multi-sensor system for real-time monitoring of banana ripening under tropical conditions Sandun De Silva, R.M.M.M. Rathnayaka, P.P. Ruwanpathirana, and G.S.N. Fernando

Posters in Technical Stream III

3.00-4.30 p.m.
(Hall: Atrium)

Chairpersons:
Dr. CLSM Karunarathne
Dr. MGG Awanthi

Soil, Plant, and Environmental Sciences, Poster Session

ID	Title and Authors
28	Establishment of an In Vitro somatic embryogenesis protocol from leaf explants of tea [<i>Camellia sinensis</i> (L.) O. Kuntze] for mutational breeding H.N.P.M. Gunawardhana, K.K. Ranaweera*, N.V.T. Jayaprada
30	Comparative assessment of growth and yield of muria fl capsicum under protected vs. open environments of Bandarawela, Sri Lanka Rajapaksha R.M.K.S., Dissanayaka P.M.U.I., Maduwanthi A.R.S.N., and Bandara B.R.N.U.
38	Scotch bonnet production in underutilized marginal spaces: a systematic process of upside-down 2-in-1 hanging bottles and traditional pots in Karagoda Uyangoda, Sri Lanka Nimsara K.G.D.V., Yasansha K.A.A., Ranasinghe D.R.N., Bhagya R.M.G., Ekanayake E.M.T.G.D.R., Senevirathna K.M.D.T., Miruban P., Bandara D.M.S.N.P., Subathra T., A.R.S.N. Maduwanthi, and Chandana E.P.S.
39	Identification of potential rootstocks having bacterial wilt resistance to graft with high-quality tomato varietal scions T.G.R.W. Wickramawardana, H.M.V.T. Welegama, U.M. Aruna Kumara, P.G.H.M.S.N. Herath, K.M.G. Kulatunga, E.R.G.I.C. Rajapaksha, M.S.F. Safra, and S.S. Kotandeniya
55	Effectiveness of microclimate control on yield, growth, and diseases management of capsicum (<i>Capsicum annuum</i> L.) under protected cultivation in Sri Lanka J.V.K.A. Sajeewani and U.M.A. Kumara
56	Integrated optimization of soilless potting media and nutrient management for export-oriented cultivation of <i>Adenium obesum</i> Thisura Jayasinghe, Dilshani Ranaweera, Udara Premarathne, and D.L.C.K. Fonseka
71	Establishment of a micropropagation protocol for rapid clonal propagation of <i>Evolvulus alsinoides</i> (Vishnukranthi) S. Abeyesundara, W.M.A.C. Premasiri, R.M.Y.I. Rathnayake, and D.L.C.K. Fonseka

ID	Title and Authors
80	Impact of fertilizer formulations on soil, plant nutrient status and yield in tea (<i>Camellia sinensis</i>) plantations Gunathilake H.T., Palihakkara I.R., Handunwala S.S., and Gunaratne G.P.
87	Foliar nutrition in mature tea: assessing fertilizer use efficiency and cost-benefit analysis Dissanayake D.M.I.D., Palihakkara I.R., Handunwala S.S., and Gunaratne G.P.
88	Allelopathic effects of different plant part extracts of <i>mimosa pigra</i> l. on germination and seedling growth of traditional rice varieties M.N.A. Perera and P.C.D. Perera
120	Effect of substrate composition and variety on growth and yield of cucumber (<i>Cucumis sativus</i> L.) under soilless shade house conditions in the Dry Zone of Sri Lanka R. Venujan*, and S. Sivachandiran
122	Seasonal Incidence of major pests and diseases in the Attakkari Rice Cultivar in Northern Sri Lanka Anushika C.M., Suvanthini T., P. Pratheepkanth, Gajapathy K., and Kishanthan A.
126	Effects of biochar and nitrogen on growth and yield of brinjal (<i>Solanum melongena</i> L.) under deficit irrigation: A study in the Dry Zone of Sri Lanka Abisathan and S. Sivachandiran
135	Spatial distribution of soil microbial biomass carbon and physicochemical properties in the Katupotha tank cascade system, Sri Lanka T.D.G.T.D. Wijepala ¹ ; W.D.U. Premarathna ² ; K.L.W. Kumara ¹ ; R.R. Ratnayake ^{2*}
136	Bio super phosphate® and conventional phosphorus fertilizer effects on banana under two agro-ecological zones Sampath K.H.H.U., Wijesuriya W.M.H.H., Anjana E.M.C., Ranwala R.A.T.S., Ranwala R.A.B.P.S., Nirmana I., and Amarasinghe S.R.
142	Effects of different shade levels and fertilizer types on growth of azolla and quality of water M.D.A.P. Dissanayaka, S.R. Amarasinghe, D.G.S. Maduwanthi, A.L. Ranawake, and R. A. A.K. Ranawaka
144	Morphological variation in cinnamon (<i>Cinnamomum zeylanicum</i> blume) seedlings as affect by distance from the polen source of “sri gamunu”

ID	Title and Authors
	G.L.U. Jayasingha, M.K.T.K. Amarasinghe and H.K.M.S. Kumarasinghe
145	Rooting and sprouting responses of cinnamon (<i>Cinnamomum zeylanicum</i> Blume) cuttings to natural bio stimulants and indole-3-butyric acid H.W.K.A.S. Kumari, M.K.T.K. Amarasinghe* and H.K.M.S. Kumarasinghe
151	Isolation, identification, and bactericide sensitivity of <i>kosakonia cowanii</i> strain causing bacterial disease in passion fruit Peng xin
153	Effects of GA₃ on fruit growth and parthenocarpy induction in spine gourd (<i>Momordica dioica</i>) K.P.R.S. Karunanayaka, G.Y. Jayasinghe, and H.K.M.S. Kumarasinghe
155	Effect of semi-solid and liquid ms media with or without banana pulp on shoot proliferation and root development in <i>Vanilla planifolia</i> Andrews K.D. Sahanika, K.D.N. Priyadarshini, and M.K.T.K. Amarasinghe
157	Influence of pollen dilution on pollination efficiency and seed yield in hybrid curry chili (<i>Capsicum annuum</i> L.) under protected conditions W.A.Y. Prabhani, W.M.A.M. Karunarathne, and H.K.M.S. Kumarasinghe
158	Assessment of agronomic performance and economic viability of a gherkin–yard-long bean sequential cropping system under pot culture conditions in the low country Wet Zone of Sri Lanka W.N.N.L. Madhuranga, W.M.A.M. Karunarathne, and H.K.M.S. Kumarasinghe

Agricultural Engineering, Technology and Digital Intelligence, Poster Session

ID	Title and Authors
89	Global sensitivity analysis of cultivar parameters influencing apsim-potato yield simulation in Seetha Eliya, Sri Lanka using gaussian process emulation M.P.S. Samadhi, W.B.M.A.C. Bandara, A. Liyanage, and G.Y. Jayasinghe
99	CoCo Panel: A digital intelligence framework for climate-smart monitoring and decision support in coconut plantation management W.S.S. Silva, GHDTN Gammanpila, UGC Priyashantha, WJRP Warnasooriya, and K.T. Ariyawansha

ID	Title and Authors
152	Quantifying condensate recovery from split air conditioners in tropical institutional buildings R.B.K.N. Bandara, K.P.R.S. Karunanayaka, K.K.L.B. Adikaram, A.C.P. Priyankara, and D.T. Andrahannadi