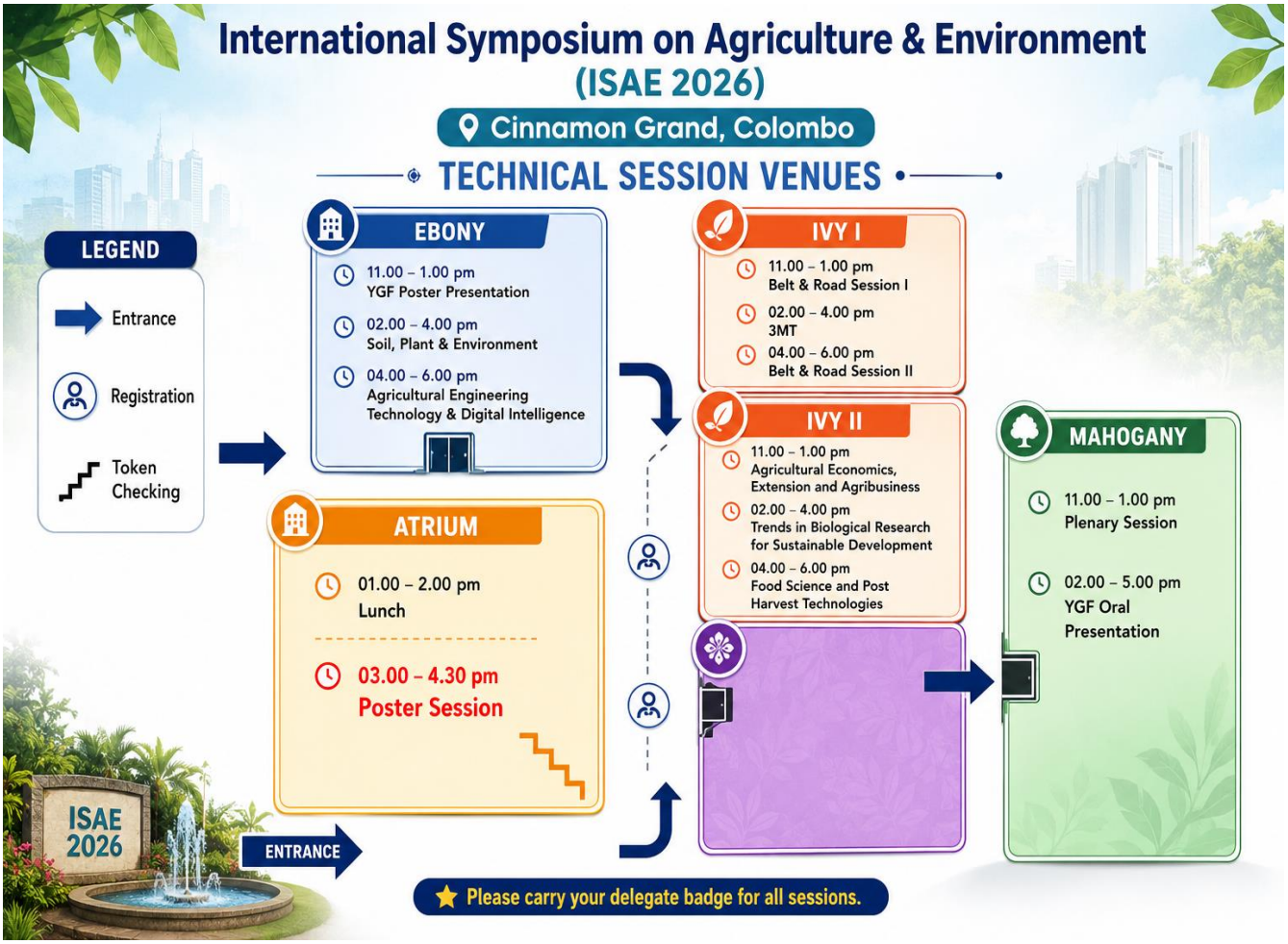
International Symposium on Agriculture & Environment
(ISAE 2026)
Cinnamon Grand, Colombo
TECHNICAL SESSION VENUES
LEGEND
Entrance
Registration
Token Checking
EBONY
11.00 – 1.00 pm
YGF Poster Presentation
02.00 – 4.00 pm
Soil, Plant & Environment
04.00 – 6.00 pm
Agricultural Engineering Technology & Digital 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

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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 *In vitro* evaluation of a multi-epitope DNA vaccine against *Edwardsiella piscicida*.** 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 *Mentha spicata* 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 yjic.** 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 (*Pinus roxburghii*) 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 (*Alternanthera sessilis* 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 Mr. Tharusha Wanigasekara
Manager of Digital Innovation and Inclusion, Dialog Axiata PLC
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 (*ustilaginoidea virens*) 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 *apis cerana indica*** B.D. Eaton, D.D.S. Lihinikaduwage, 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. Abeysuriya
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: Senior Prof. DAL Leelamanie
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 (*Trifolium repens* 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 (*Capsicum annuum* L.) seed production under protected conditions** G.D.R.S. Wijesinghe, W.M.A.M. Karunarathne, 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 **Chairperson: Prof. Thaksala Serasinghe**
(Hall: Mahogany) **Convener: Ms. WKM Tissera**
Keynote by Ms. Swati Sharma
Editor, Books Life Sciences
Springer Nature
Evaluators:
Prof. RAUJ Marapana
Mr. Indika Gunawardena
Dr. Thilanka Ariyawansa

ID	Title and Authors
2026_01	**Impact of inoculation of *Trichoderma harzianum* and *Verticillium chlamydosporium* 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 Scutellaria baicalensis (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 (*Cucurbita moschata*) puree incorporated non-fat drinking yoghurt** Samarawickrama A. D. And Narayana N. M. N. K.
2026_P3	**Potential of *Trichoderma harzianum* 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 *Abelmoschus manihot* 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 (*Camellia sinensis*) leaf polyphenol content from uav multispectral vegetation indices** K.G.S. Nimasha, G.Y. Jayasinghe, K.T. Ariyawansha
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 *In Vitro* propagation protocol for large-scale multiplication and conservation of *Salacia reticulata* (Kothalahimbutu)** I.B.M.D.I. Irugalbandara, W. M. A. C. Premasiri and D.L.C.K. Fonseka
2026_P18	**Optimization of an *In Vitro* propagation protocol for efficient mass production of *Murraya koenigii* (L.) Spreng. plantlets** W.D. Weerathunga and D.L.C.K. Fonseka
2026_P19	**Enhancing efficiency and yield of *Schizophyllum commune* through electric and acoustic stimuli** K.A. Kithmini Dilrangi, 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. **Chairperson: Dr. DM Gamage**
(Hall: Atrium) **Dr. WWUI Wickramarachchi**

Trends in Biological Research for Sustainable Development, Posters

ID	Title and Authors
3	**Evaluation of antibiosis resistance in Sri Lankan *Oryza nivara* populations to brown planthopper (*Nilaparvata lugens*)** 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 (*Bactrocera* and *Zeugodacus* 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 (*Xiphophorus maculatus*) 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 *Penaeus vannamei* in Puttalam district, Sri Lanka** Chandradasa M.D., Rathnapala J.M.S.N., and Bandara A.M.K.A.
26	**EHP infection, water quality & *Vibrio* abundance in pacific white shrimp (*Litopenaeus vannamei*) farming in Sri Lanka** S. Beulah, Dr. P.P.M. Heenatigala, and Dr. S. Thatchaneshkanth
45	**Epidemiology of *Subclinical Mastitis* 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 (*Holothuria scabra*)** 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 (*Ipomoea aquatica*) on growth and body coloration of southern platy fish (*Xiphophorus maculatus*)** 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 (*Manihot esculenta* 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 (*Vigna radiata* 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 *dioscorea* 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 (*Vigna unguiculata* 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 (*Vigna unguiculata* 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 (Wathusudda: *Tabernaemontana divaricata* L.) in Southern Sri Lanka** D.P. Ritigahapola, S.R. Amarasinghe, and A.L. Ranawake
114	**Characterization of morphological diversity in red shoe flower (*Hibiscus rosasinensis*) 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 *Halyomorpha halys* 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 *Mesocomys* 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 *Anastatus* on eggs of *Riptortus pedestris* 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 *Ixora* 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. Ariyarathna, 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 *Encapsulated Spirulina*** 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 (*Madhuca longifolia*) 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 *Moringa oleifera* 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 (*Solanum lycopersicum* 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 (*Caryota urens* 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. **Chairpersons:**
(Hall: Atrium) **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 [*Camellia sinensis* (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 f1 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 (*Capsicum annuum* 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 *Adenium obesum*** Thisura Jayasinghe, Dilshani Ranaweera, Udara Premarathne, and D.L.C.K. Fonseka
71	**Establishment of a micropropagation protocol for rapid clonal propagation of *Evolvulus alsinoides* (Vishnukranthi)** S. Abeysundara, 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 (*Camellia sinensis*) 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 *mimosa pigra* 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 (*Cucumis sativus* 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 (*Solanum melongena* 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 (*Cinnamomum zeylanicum* blume) seedlngs 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 (*Cinnamomum zeylanicum* 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 *kosakonia cowanii* strain causing bacterial disease in passion fruit** Peng xin
153	**Effects of GA_3 on fruit growth and parthenocarpy induction in spine gourd (*Momordica dioica*)** 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 *Vanilla planifolia* 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 (*Capsicum annuum* 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