

Technical Sessions - ARS FOT 2023

Session 01

Venue: AT AY (4th floor Lecture Hall of the Department of Agricultural Technology)

01	01.00 – 01.15	Real-time viability detection of chili seeds with machine learning T.H.T. Silva, H.P.G.N.M. Wimalasiri, O.K.D.T.J. Opatha, U.S. Mutugala
02	01.15 – 01.30	Detection of post-harvest damages of tomatoes based on image processing techniques for automated food grading applications D.T.D. Ranathunga, M.W.D.T.D. Withanage, B.L.I. Dilshan, H.Y.R. Atapattu
03	01.30 – 01.45	Design and testing of a poly-tunnel monitoring and control system D.A.V.V. Karunarathne, S.A.A.H.R. Premathilake, D.M.P.B. Dissanayake, U.S. Mutugala
04	01.45 – 02.00	Anti-glycation and sensory properties of <i>Costus speciosus</i> L. (Thebu) tea S.H.S.D. Senarath, W.K.S.M Abeysekera
05	02.00 – 02.15	Elucidation of associated microbial consortium with <i>Xanthomonas campestris</i> pv. <i>Campestris</i> the causal agent of black rot disease in cabbage W.L.S.M.I.D.M. Thilakarathne, U.M. Aruna Kumara, C. Ranasinghe
06	02.15 – 02.30	Estimation of genetic variability and character association of sunflower genotypes available in Sri Lanka D.S. Vidanapathirana, Y.P. J Amarasinghe, G. Wijesinghe, R.W. Pushpakumara, U.M. Aruna Kumara, N.V.T Jayaprada
07	02.30 – 02.45	Anti-protein glycation activity of a range of Sri Lankan plants T. Vithyalanee, P. A. N. Punyasiri, W. P. K. M. Abeysekera, W. K. S. M. Abeysekera
08	02.45 – 03.00	Antioxidant properties of value-added bitter melon (<i>Momordica charantia</i> L.) tea D.M.A.D. Bandara, W.K.S.M. Abeysekera
09	03.00 – 03.15	Development and evaluation of an in vitro induced mutant population in baby's breath (<i>Gypsophila paniculata</i>) for crop improvement W.A.D. Chamodi Wedasingha, M.M.D.J. Senarathna, J.M.S.M. Madumali, N.V.T. Jayaprada
03.15-03.30		TEA BREAK
10	03.30 – 03.45	The case study on imported hybrid maize variety RSA-02 growing in Anuradhapura district of Sri Lanka M.W.C.I. Perera, U.M. Aruna Kumara, H.M.A.C. Gunarathne
11	03.45 – 04.00	Evaluation of bacterial wilt resistance in traditional tomato cultivar (chena tomato) compared to commercially grown tomatoes in Sri Lanka R.S. Samarasinghe, U.M. Aruna Kumara
12	04.00 – 04.15	Introduction of a new protocol to develop new <i>Anthurium</i> varieties achievable in shortened time frame: a combination of Anther culture and protoplast fusion technologies A.P.E.P.W. Liyanage, U.M. Aruna Kumara, M.C.L. Attanayake

13	04.15 – 04.30	Feasibility of lipid production from microalgae in Beira Lake M.H.C.Y. Munasinghe, G.A.U. Jayasekera
14	04.30 – 04.45	Development of a natural umami flavoured soup cube as a substitute for monosodium glutamate-based commercial soup cubes K.M.V. Kalaldora, H.M.T. Herath, W.K.S.M. Abeysekera
15	04.45 – 05.00	Effect of dietary vitamin C on the growth, reproductive performances and survival rate in <i>Poecilia reticulata</i> R.M.N.P.K. Rathnayaka, Harshani Nainayake and G.W.A.S. Lakmini

Session 02

Venue: ET CR BB (4th floor Lecture Hall of the Department of Environmental Technology)

01	01.00 – 01.15	Identification of the capability of biochar mediated nano zero-valent iron for bioremediation of <i>Salmonella enterica</i> . C. T.C.C. Gunawardhana, J.J. Wewalwela, S.R. Gunatilake, A.A.Y.A. Alahakoon
02	01.15 – 01.30	Chitosan and chitosan-functionalized iron oxide nanoparticles for removal of nitrate and phosphate in Beira Lake, Sri Lanka Niluka Priyadarshane, Poorna Piyathilaka, Gayan Priyadarshana
03	01.30 – 01.45	Identification of thermo-stable amylase enzyme coding genes from Maha Oya hot spring, Sri Lanka H.D.D. Sadeepa, M. Hewadikaram, K.A. Sirisena and P.M. Manage
04	01.45 – 02.00	Greenhouse gas emissions associated with embodied energy use in orthodox black tea manufacturing process at mid country Sri Lanka M.D.N.D. Perera, G.Y. Jayasinghe, S.B. Navaratne, W.L.I. Wijesekara
05	02.00 – 02.15	Air pollution stress tolerant roadside tree species in Kandy urban setting K.M.N Wijerathne, N.L. Ukwattage, N. De Silva
06	02.15 – 02.30	Study of soil characteristics and drainage conditions of the Faculty of Technology, University of Colombo Premises A.A.A. K. Sandamal, H. K. P. P. Kariyawasam, J.J. Wewalwela, Y.P. Senanayaka, D.M.E. Senevirathna
07	02.30 – 02.45	Urban expansion of Colombo City and its impact on land surface temperature and urban heat island formation W.A.T.D. Wickramasinghe, N.L. Ukwattage and S.G. Gamage
08	02.45 – 03.00	Development of biodegradable eco-friendly grass mats from kitchen waste and banana fiber: A sustainable approach for waste utilization M.D. Madhushan, M.F.F. Farha, K.L. Gamage, P.G.R.N. Gaveshani, W.G.S. Geethanjana, M.P.J.R. Nimalarathna, U.G.D.P. Wijerathna, I.J.J.U.N. Perera and M.A.P.C. Piyathilaka
09	03.00 – 03.15	Assessment of groundwater quality and development of a tailored water quality index for Vallipuram region of Jaffna peninsula R. Sharmilaa, N. Anoja, K.A. Sirisena

03.15-03.30

TEA BREAK

10	03.30 – 03.45	Identification of suitable standard analytical methods for determination of significant parameters of surface water quality in surrounding water bodies of Kerawalapitiya waste park located in Muthurajawela wetland J.S. Shakeela Bandara, Ranjana U.K. Piyadasa
11	03.45 – 04.00	Assessment of the community perceptions and local knowledge on Socio- ecological Resilience in Urban Wetlands: A Case Study of the Colombo Wetlands, Sri Lanka W.G.K.Withana, Ranjana.U.K.Piyadasa, H.M.M.S.D.Herath
12	04.00 – 04.15	Removal of dye in batik wastewater using eco-friendly biosorbents D.R.J.P. Jayathilake, Sansfica M. Young
13	04.15 – 04.30	Assessment and removal of zinc and aluminium from balloon manufacturing industry L.P. Jayamali, Sansfica M. Young
14	04.30 – 04.45	Zero – the refill store, Exploring the customer perception on an E-Commerce platform for waste minimization J.M.A.Y.R. Jayakody, N.D.B.D Jayashantha, J. Jeyapriya, Nethmini T. Weerawarna
15	04.45 – 05.00	Application of population-based optimization methods for tuning PID controllers S.M.M.B.B. Sapugoda, P.P.K.S. Ariyadasa, B.W.S. Madushan, P.A.G.M. Amarasinghe
16	05.00 – 05.15	Simulation-based investigation of advanced wind deflectors in vertical-axis wind turbines (VAWTs) for enhanced wind energy harvesting efficiency Ayesha Lakshani, Poorna Piyathilaka, Sanjaya Thilakarathna