

8th International Conference on Dry Zone Agriculture (ICDA-2022)

“Emerging Appropriate Agro-technologies Towards Food
Sustainability”

14th of September, 2022

08.15 am	Registration
08.45 am	Lighting of Traditional Oil Lamp
08.55 am	Welcome Dance
09.00 am	Inaugural address by Convener: Dr.K.Pakeerathan
09.10 am	Conference chair address: Dr.S.Vasantharuba
09.20 am	Chief Guest’s Address Professor S. Srisatkunarajah, Vice-chancellor, University of Jaffna
09.45 am	Publication of the Proceedings of the 8 th ICDA
10.00 am	Keynote address: Emeritus Professor Ogata Kazuo, Kyushu University, Japan ‘Smart Agriculture’ in Japan: An Overview of the Trend’
10.30 am	Vote of Thanks

Virtual Scientific Session (Track A): 10.45am-12.15pm

10.45 am – 12.15 pm	Scientific Session (Track A)
Theme: Agronomy Chairperson: Dr. (Mrs). Menaka Fernando Track Coordinator: Dr. Rasu Eeswaran Zoom ID: 678 4100 0555 Zoom Passcode: Agronomy@1 Link: https://learn.zoom.us/j/67841000555?pwd=LzVpMk5rSS9Rc3IzeUJlbkFlaUI4QT09	
Time	Title of the abstract, Name of the Authors
10.45	Designing Packages of Practice to Increase Home Garden Crop Production in Sri Lanka Mohamed, M.S.A. , Wathugala, D.L., Indika W.A. and Madushika, M.K.S.
10.57	Impact of different Seedling Age on Growth and Yield of Machine Transplanted Rice (<i>Oryza Sativa</i> L.) Sivaneson, S. and Vijayakumari, J.

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11.09	Phyto-toxicity of Herbicide; BENZOBICYCLON 280g ^l -1 SC on Rice Bandara, R.M.U.S. , Wickrama, W.M.U.B., De Silva, Y.M.S.H.I.U., Dissanayaka, H.M.M.K.K.H. and Manju Raj, K.H.A.M.
11.21	Yield Performance of Traditional Rice Varieties at Rice Research Station, Murunkan Rajeshkanna, S., Bamithra, N. and Kaviraj, T., Jeyasundara, J.A.P.
11.33	Effect of Phytohormones in Mitigating Heat Stress and Enhancing Seed Yield in Maize Hybrid COH(M) 8 Revathy, V., Manonmani, V. and Nivethitha, M.
11.45	Evaluation of Organic Inputs in Cinnamon (<i>Cinnamomum zeylanicum</i> Blume) Nursery Media along with Subsoil as Alternative Potting Mixture Pathirana, S.S.S. , Tharanga, K.H.G.M. and Ampitiyawaththa, A.D.
11.57	Evaluation of Jamun (<i>Syzigium cuminii</i> Skeels.) Genotypes for Growth, Yield and Quality Parameters Rajangam, J. , Sankar, C., Suganya Kanna, S., Uma Maheswari, M. and Beaulah, A.
12.09	Double Hedge Row System of Planting in Sapota var <i>PKM-4</i> to Enhance the Yield Rajangam, J. , Sankar, C. and Uma Maheswari, M.
12.15 – 13.00 pm	Fellowship Lunch

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Virtual Parallel scientific sessions (Track B, C &D)

13.00 pm – 14.30 pm

13.00 pm – 14.30 pm	Scientific Session (Track B)
<p>Theme: Food Science Chairperson: Professor Anoma Chandrasekara Track Coordinator: Mrs. Kasthuri Kajeevan Zoom ID: 652 4256 9515 Zoom Passcode: EXfRLlc9 Link: https://learn.zoom.us/j/65242569515?pwd=MzIMWC82Y1k4THQ4dTV0aWJpWERiZz09</p>	
Time	Title of the abstract, Name of the Authors
13.00	Formulation and Quality Evaluation of a Healthy Cereal Bar with Traditional Rice (<i>Oryza sativa</i>) Suwandel and Pachchaperumal Thennakoon, T.M.K.I. and Kandegama, W.M.W.W.
13.12	Development and Quality Evaluation of Gluten-Free Baby Rusk using <i>Madathawalu</i> rice (<i>Oryza sativa</i> L.) and Mung bean (<i>Vigna radiata</i>) composite flour Udakanda, S.S. and Kandegama, W.M.W.W.
13.24	Variation in Colour Attributes of Arrowroot (<i>Maranta arundinacea</i>) Flour from Five Different Provinces in Sri Lanka Malki, M.K.S., Wijesinghe, J.A.AC., Ratnayake, R.H.M.K. and Thilakarathna, G.C.
13.36	Production of Cashew Apple (<i>Anacardium occidentale</i> L.) Flour and Determination of its Physicochemical, Functional and Nutritional Properties Sandaruwani, M.K.Y., Ratnayake, R.H.M.K. and Herath, H.M.S.P.
13.48	Effect of Malting Duration on Proximate Composition, Total Phenolic Content and Total Flavonoid Content of Pearl Millets Grown in Sri Lanka Rajeetha, J., Sivakanthan, S., Liyanagae, R. and Madhujith, T.

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14.00	Investigation of Soluble Impurities in Sugar Juice Manufacturing Process Madhubhashini, S.K., Sanjaya, B.L., Thilakarathne and Ahamed, K.M.
Conclusion of the Session B	

13.00 pm – 14.30 pm Scientific Session (Track C)	
Theme: Agricultural Economics and Extension	
Chairpersons: Professor N.Kengatharan & DR.A.Saravanabawan	
Track Coordinator: Ms. Kamshajini Raveenthiran	
Zoom ID: 672 8692 6947	
Zoom Passcode: H0nTyrf	
Link: https://learn.zoom.us/j/67286926947?pwd=ZHNXWmUyZWpLMU5WK0RaaWtGYUZhZz09	
Time	Title of the abstract, Name of the Authors
13.00	Knowledge, Attitude and Behaviour on Consumers of Food Safety in Sri Lanka Madhujith, W.M.T., Jayasekara, J.M.D.S and Panoshan, S.L
13.12	Virtual Water Trade of Indian Maize for Global Food Sustainability Elamathy, S. and Shivakumar, K.M.
13.24	Potential and Pitfalls of Moringa Value Chain in the Dry Zone of Sri Lanka Samarawickrama, S.T.N. , Edirisinghe, J.C. and Kanuwana, K.P.N.G.
13.36	Trading in Virtual Water in the Context of Food Sustainability Yazhini, A. , and Shivakumar, K.M.
13.48	A Quantification of Virtual Water Trade of Major Agricultural Commodities in India Kamesh, T.M.
14.00	Cost Benefit Comparison for Different Compost Manufacturer Categories in Sri Lanka

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	Vijayanthi, A.J.Y.M. and Kuruppu, I.V.
14.12	Cost and Benefits of Climate Resilient Livestock Production in Tropics: A Conceptual Analysis for Adaptation Techniques Mohamed Thariq, M.G. and Ahamed Rifath, M.R.

Conclusion of the Session C

13.00 pm – 14.30 pm	Scientific Session (Track D)
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Theme: Agricultural Biology

Chairperson: Professor Disna Ratnasekara

Track Coordinator: Mrs. Nirosha Thanusan

Zoom ID: 634 0937 3207

Zoom Passcode: ICDA\$22sep

Link: <https://learn.zoom.us/j/63409373207?pwd=ME9HWmM5OXP0MW1PeU91VjJPTjc1dz09>

Time	Title of the abstract, Name of the Authors
13.00	The Effect of Different Fruit Bagging on Postharvest Quality of Guava Aberathna, A.M.H.G.N.K. , Wasala, W.M.C.B. and Sinthuja, L.P.
13.12	Phenotypic Plasticity of Wild Rice (<i>Oryza nivara</i>) between the Native and Introduced Environments in Sri Lanka Wijerathna, P. , Sandamal, S., Tennakoon, A. and Ratnasekera, D.

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13.24	<p><i>Trichoderma asperellum</i>, a Potent Antagonist of Root-knot Nematode, <i>Meloidogyne incognita</i></p> <p>Kamra, A., Paul, B., paul, S. and Gawade, B.</p>
13.36	<p>Evaluation of Essential Oils and their Components for Broad-Spectrum Antifungal Activity against <i>Pythium aphanidermatum</i>, causing Damping-off disease in Tobacco</p> <p>Soundarya, K. and Dhileepan Jadeja, S.</p>
13.48	<p>Effectiveness of Cinnamon Bark Oil under <i>In-vitro</i> Conditions to Control <i>Phomopsis</i> sp. Isolated from Guava (<i>Psidium guajava</i>)</p> <p>Kumara, B.A.M.S. and Menike, G.D.N.</p>
14.00	<p>Evaluation of Rhizobacterial Isolates Antagonism to <i>Meloidogyne incognita</i> Infecting Tomato</p> <p>Devindrappa, M. and Kamra, A.</p>
14.12	<p>Methods to Improve Seed Sets in Cluster Onion Hybridization</p> <p>Tharsika, V., Arasakesary, S.J. and Thirukkumaran, G.</p>
14.24	<p>A farmer participatory study to identify the ideal location/s for promotion of true seeds of Cluster onion (<i>Allium cepa</i>.L.) in Jaffna district of Sri Lanka</p> <p>Arasakesary, S.J., Amirthalojanan, A., Sugirthan, P. and Sivakumar, K.</p>
14.36	<p>Genetic Diversity and Evaluation of Wood Apple (<i>Feronia limonia</i> L.) for Morphological and Yield Parameters</p> <p>Rajangam, J., Beulah, A., Suganya Kanna, S., Uma Maheswari, M. and Sankar, C.</p>
Conclusion of the Session D	

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Virtual Parallel scientific sessions (Track E, F & G)

14.30 pm – 16.00 pm

14.30 pm – 16.00 pm	Scientific Session (Track E)
Theme: Agricultural Engineering Chairperson: Prof. D.A.N. Dharmasena Track Coordinator: Dr. Nadarajah Kannan Zoom ID: 634 0613 2353 Zoom Passcode: 99Pt&nSv Link: https://learn.zoom.us/j/63406132353?pwd=T2o3RnNuYy9yV1JVSkNkc2A5QStRUT09	
Time	Title of the abstract, Name of the Authors
14.30	Controlled Storage Conditions Reduce the Postharvest Losses of Big Onion (<i>Allium cepa</i>) Selection “Dambulla Red” Samarasinghe, Y.M.P. , Kumara, B.A.M.S., Marasinghe, C.K., Kumarage, K.P.L. and Wijewardane R.M.N.A.
14.42	Exploring Secondary School Students’ Understanding of Solid Waste Management; A Case Study of Uyangoda Maha Vidyalaya, Kamburupitiya Thakshila, R.P.A.D. , Sandeepani, D.M.M. and Samaraweera, G.C.
14.54	Applicability of Mechanical Drying as a Thermal Pre-treatment for Minimizing Broken Rice Percentage in Rice Milling Industry Weerasinghe, T.M.A.N. , Rathnayake, H.M.A.P., Wasala, W.M.C.B. and Bandara, D.M.S.P.
15.06	A study on Water Management Issues in the Eastern Slopes of Central Highland Region, Sri Lanka Hewage, S. , Bandara, S., Samarasinha, G. and Munaweerage, T.
15.18	Thermal Treatments as Accelerated Aging Techniques for Mitigating Rice Stickiness of Freshly Harvested Paddy Weerasinghe, T.M.A.N. , Marasinghe, C.K., Rathnayake, H.M.A.P., Aluwihare, W.B.W.M.R.C.P. and Gunawardhane, C.R.
15.30	Different Parboiling Process Effect on the Formation of Resistance Starch in Raw Paddy Varieties

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	Lakmali, R., Prabhakaran, M. and Alvapillai, P.
15.42	Simulation Techniques and Modelling of Optimized Pressurized Agriculture Pipe Network Suitable for Home Gardening in Vavuniya Area of Sri Lanka Sutharsan, M.E.
Conclusion of the Session E	

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14.30 pm – 16.00 pm		Scientific Session (Track F)
Theme: Soil Science Session Chairperson: Prof. (Dr.) H.M. Saman K. Herath Track Coordinator: Mrs. Abhiramy Kirisan Zoom ID: 205 541 7150 Zoom Passcode: Soil@1234 Link: https://learn.zoom.us/j/2055417150?pwd=WkN3ZkIrc3M0dzZUeFRxaGlyNihZQT09		
Time	Title of the abstract, Name of the Authors	
14.30	Soil Carbon Sequestration Potential of Home Gardens in the Dry Zone of Sri Lanka Premalal, H.M.N.D., Perera, G.A.D. and Ratnayake, R.R.	
14.42	Chemical Properties of Rice Soils Managed Under Organic or Inorganic Fertilizer Applied Conditions Neththasinghe, N.A.S.A., Chandrasekara, E.D.C.T. and Suriyagoda, L.D.B.	
14.54	Distribution of Potassium in Selected Paddy Soils and their Variation Under Different Agro-Climatic Zones, Management Practices and Soil Orders Chandrasekara, E.D.C.T., Neththasinghe, N.A.S.A., Dissanayaka, D.M.S.B., Ariyaratne, M. and Suriyagoda, L.D.B.	
15.06	Comparative Study on Heavy Metal Accumulations in Sediment Samples in China, India and Sri Lanka Nevmi, M.A., Dahanayake, G.H.R. and Karunarathne, E.	
15.18	Effect of Cinnamon Wood Biochar Preparation Methods on Nutrient Retention and Release Nayendra, W.G.N., Tharanga, K.H.G.M. and Yapa, P.I.	
Conclusion of the Session F		

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14.30 pm – 16.00 pm		Scientific Session (Track G)
Theme: Animal Science Sessions Chairperson: Prof. Ajith Jayaweera BP Track Coordinator: Dr. (Mrs.). Susantha Piratheepan Zoom ID: 657 434 0906 Zoom Passcode: Link: https://learn.zoom.us/j/6574340906		
Time	Title of the abstract, Name of the Authors	
14.30	Prevalence of Gastrointestinal Parasitic Infection in Different Age Groups of Goats Shathya, S. and Piratheepan, S.	
14.42	Hatchability Prediction and Classification of the Eggs Based on the Physical Parameters of the Eggs Wickramarachchi, M.S. , Nawarathna, L.S., Dematawewa, C.M.B. and Wickramarachchi, M.K.	
14.54	Ginger Extract Supplemented Cow’s Milk Ice Cream Rajapaksha, W.R.N.M., Premakumar, K. and Afreen, S.M.M.S.	
15.06	Study of Nutritional Characteristics of Silages from CO3, CO5, Red Napier (BH18) & Super Napier Among Small Holder Dairy Farms in Kilinochchi District, Sri Lanka Chamara, H.M. , Thanusan, S. and Piratheepan, S.	
15.18	Prevalence of Ectoparasitism among Cattle in Kilinochchi District Kukulandara, D. , Shathya, S. and Piratheepan, S.	
15.30	Use of Low Cost Biosorbents for Treating Wastewater from Aquaculture Kamsathvani, K. , Banusha, S. and Piratheepan, S.	
Conclusion of the Session G		