

**Technical Session Schedule  
ICDA 2020**

**Day I (3<sup>rd</sup> Dec 2020)**

Session I: Soil Science and Nutrient Management

Time: 1.30 pm – 3.00 pm

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	1.30 pm – 1.40 pm	Mapping soil pH and electrical conductivity of sugarcane ( <i>Saccharum officinarum</i> ) land using Arc GIS in Gal-Oya Plantation, Ampara, Sri Lanka <i>P.G.B. Priyadarshana, <b>T.A.N.T Perera</b>, W.M.C.J. Wijekoon, D.G.P.G.C.Senevirathna, M.M.D. Surath Perera and G.Y Jayasinghe</i>
2	1.40 pm – 1.50 pm	Application of Cattle and Poultry Manures in Combination with Foliar Application of Vermiwash on Growth and Yield of Okra <i><b>D.S.M.M.S.M. Samiraja</b>, K.D Harris and A.M.K.D.M. Attanayake</i>
3	1.50 pm – 2.00 pm	Effect of Gypsum Application on Yield Performance of Ground Nut ( <i>Arachis hypogea</i> L) Varieties in Kilinochchi District, Sri Lanka <i><b>N.Thivakaran</b>, L.Pradheeban and K.Nishanthan</i>
4	2.00 pm – 2.10 pm	Effect of Different Levels of Nitrogen Fertilizer on Growth and Yield performance of Different Varieties of Groundnut ( <i>Arachis hypogea</i> L.) <i><b>K.Kapilan</b> , L.Pradheeban and K.Nishanthan</i>
5	2.10 pm – 2.20 pm	Spatial Variability of Soil Carbon and its Relationship with Nutrient Availability in Paddy Soils of Trincomalee District, Sri Lanka <i><b>D.M.B.A. Chathuranga</b>, T.M. Paranavithana, N. Gnanavelrajah and R.R. Ratnayake</i>
6	2.20 pm – 2.30 pm	Formulation of Organic Liquid Fertilizers and their Effects on Germination of Selected Seeds and Growth and Yield of Chilli ( <i>Capsicum frutescens</i> L.) <i><b>S.Kalaivani</b> and N.Gnanavelrajah</i>
7	2.30 pm - 2.40 pm	Isolation and Identification of Efficient Phosphate Solubilizing Bacteria from Soil and Its Effect on Growth and Yield of <i>Zea mays</i> <i><b>K.R.H.D.Koswaththa</b>, P.S.Dissanayaka, N.Gnanavelrajah and K.Abhiramy</i>
	2.40 pm - 3.00 pm	Discussion

## Session II: Food Processing and Product Development

Time: 1.30 pm – 3.00 pm

Zoom Link: <https://us02web.zoom.us/j/2120601820?pwd=ZWVhZmZBVVVUc2VhbnRzZlYlZWpkejV3QT09>

Meeting ID: 212 060 1820

Passcode: Abcd@1234

No	Time	Title and authors
1	1.30 pm – 1.40 pm	Development of a Jam from Nam-Nam ( <i>Cynometra cauliflora</i> ) Fruit <b>S.R.W. Duraisamy</b> , G.M.W.R. Bandara and H.M.D. Nayomi
2	1.40 pm – 1.50 pm	Sensory Evaluation of biscuits prepared from wheat flour and locally available cassava flour <b>J. Sajivan</b> , S. Simmaky and P. Karthiha
3	1.50 pm – 2.00 pm	Preparation of Tomato Sauce from Tomato Powder Produced From Conventional and Microwave Vacuum Drying Methods <b>B. Wijayasinghe</b> , D. Hettiarachchi and S. Vasantharuba
4	2.00 pm – 2.10 pm	Development of Palmyrah ( <i>Borassus flabellifer</i> L.) Fruit Pulp Powder Using Spray Drying Technique <b>K.M.A. Madushanka</b> , S. Vasantharuba, B. Anuluxshy, T. Suganja, A. Kirushanthy and S. Srivijeindran
5	2.10 pm – 2.20 pm	Effect of Microwave Assisted Vacuum Drying and Cabinet Drying Techniques on the Quality Attributes of Pineapple <b>M. Mahendranathan</b> , B. D. R. Prasantha and D. N. Hettiarachchi
6	2.20 pm – 2.30 pm	Controlling Discoloration and Quality Evaluation of Dehydrated <i>Annona muricata</i> (soursop) Powder <b>K.D.T Hettige</b> , G.E.D.A.M Jayarathna and P.A.M. Jayawardana
7	2.30 pm- 2.40 pm	Effect of Different Processing Methods on Resistant Starch Contents of Selected Rice Varieties <b>Printhajini, P.</b> and Arasaratnam, V.
	2.40 pm- 3.00 pm	Discussion

## Day 2

Session III: Crop Production Technologies and Natural Resource Management

Time: 9.00 am – 10.15 am

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	9.00 am – 9.10 am	Effect of culture media states (liquid and solid) on non-parametrical measurements of <i>in-vitro</i> sub culturing of <i>Anthurium</i> 'Lady Jane'. <b><u>P.G.C.H.K. Kapilarathne</u></b> , H.M.I. Herath and N. Dahanayake
2	9.10 am – 9.20 am	Sample Survey to Identify Land-Use Pattern of Rice-Based Cropping Systems in Sri Lanka <b><u>NDR Madushan</u></b> , HMNM Herath, HK Kadupitiya, WMUK Rathnayake, DMSB Dissanayaka, M Ariyaratne, B Marambe, DN Sirisena and LDB Suriyagoda
3	9.20 am – 9.30 am	Impact of Different Border Crops on Growth and Yield Performance of Cauliflower ( <i>Brassica oleracea</i> var botrytis L) varieties <b><u>A.G. Iresha Jayamini</u></b> , L.Pradheeban and K.Nishanthan
4	9.30 am – 9.40 am	Demand for Eco-tourism: An estimation of the Recreational Value of the Rumassala Sanctuary <b><u>N.P.M. Wijayanayaka</u></b> , J.M.M. Udugama and T.P.S.R. Guruge
5	9.40 am – 9.50 am	Estimation of Vegetation Structure and Investigation of Environmental Issues on Pigeon Island National Park, Trincomalee, Sri Lanka <b><u>R. Krishnaveny</u></b>
6	9.50 am – 10.00 am	Enhancement of Lipid Content in <i>Chlorella</i> sp. by Providing Stress Conditions during Cultivation <b><u>R. A. I. S. Mihiraj</u></b> , I. Abinayan, B. Ketheesan, S. Sivakanthan and S. Vasantharuba
	10.00 am - 10.15 am	Discussion

Session IV: Water Management, Farm Mechanization and Waste Management

Time: 10.15 am – 11.30 am

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	10.15 am – 10.25 am	Analysis of rainfall pattern over the Iranaimadu Tank during the Last Three Decades <b><u>S. Lathiscumar</u></b> and S. Umasuthan
2	10.25 am – 10.35 am	Analysis of Residual Chlorine concentration in Water Distribution System in Vavuniya District <b><u>T. Thinarthika</u></b> , T. Mikunthan, M. Prabhakaran and S. Saravanan
3	10.35 am – 10.45 am	Suitability of Groundwater for drinking in Valukkai Aru drainage basin <b><u>M. Sheetharon</u></b> and T. Mikunthan
4	10.45 am - 10.55 am	Design, fabrication and testing of four-wheel tractor mounted upland channel maker <b><u>M. Rajethan</u></b> and P Alvaappillai
5	10.55 am – 11.05 am	Design, Fabrication and Performance Evaluation of Millets ( <i>Eleusine coracana</i> ) Cleaning Machine for Domestic Level <b><u>K.I.T.M Palugaswewa</u></b> , B.D.M.P.B. Dissanayake and M. Prabhakaran
6	11.05 am – 11.15 am	Households' willingness to pay for the sewerage system in Jaffna Municipal area, Sri Lanka <b><u>K. Linoja</u></b> , K. Sooriyakumar and S.Sivashankar
	11.15 am – 11.30 am	Discussion

Session V: Plant Protection

Time: 11.30 am – 12.30 pm

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	11.30 am – 11.40 am	Larvicidal Activity of Leaf Extract of Lime ( <i>Citrus aurantifolia</i> (Christ.) Swingle) and Synthetic Pesticide Spinosad against Diamond Back Moth, <i>Plutella xylostella</i> L. (Lepidoptera: Plutellidae) on Cabbage <b>Y. Arani</b> and R. Nithiyagowry
2	11.40 am – 11.50 am	Efficacy of an entomopathogenic fungus, <i>Lecanicillium lecanii</i> as a bio-control agent against <i>Bemisia tabaci</i> on <i>Hygrophila corymbosa</i> <b>L. Jathukula</b> and G. Mikunthan
3	11.50 am – 12.00 pm	Eco-friendly management of banana anthracnose ( <i>Colletotrichum musae</i> ) using bio-rationals <b>T. Karthika</b> , N. Thiruchchelvan and G. Mikunthan
4	12.00 pm – 12.10 pm	Effect of plant extracts on root knot nematode <i>Meloidogyne incognita</i> (Kofoid & White) Chitwood in Jaffna, Sri Lanka <b>L. Sujavanthi</b> , A. Niroscha and G. Mikunthan
5	12.10 pm – 12.20 pm	Exploitation of phyllospheric and rhizospheric microorganisms as biological control agents against <i>Colletotrichum gloeosporioides</i> causing anthracnose disease of mango <b>G.D.N. Menike</b> and R.M.R.N.K. Ratnayake
	12.20 pm – 12.30 pm	Discussion

Session VI: Agricultural Economics and Agribusiness Management

Time: 01.00 pm – 02.15 pm

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	1.00 pm – 1.10 pm	Identification of the Potential to Introduce Mobile Based-Demand and Supply Forecasting System for Potato Farmers: A Case in Nuwara Eliya District <b><u>T.B. Mallikaarachchi</u></b> , G.C. Samarweera, W.A. Indika and M.K.S. Madushika
2	1.10 pm- 1.20 pm	A Study on the Instruments Preferred by Key Stakeholders to Promote Organic Fertilizer through Agri-Food Value Chains <b><u>J.A.S.N.S. Jayakodi</u></b> , U.K. Jayasinghe-Mudalige and H.A.C.K. Jayathilake
3	1.20 pm – 1.30 pm	Mapping and display Paddy production information in Sri Lanka from 2005 to 2019: Application of GIS and Web GIS <b><u>H.A.C.D.Senavirathna</u></b> and W.A.L.P.Jayasinghe
4	1.30 pm – 1.40 pm	Analysis of Resource Use Efficiency in Chilli Production and Its Contribution to Household Farm Income in Manmunai South and Eruvilpattu DS Division, Batticaloa <b><u>S. Tharmitha</u></b> and K. Sooriyakumar
5	1.40 pm – 1.50 pm	Farmer Education and Potato Storage in Sri Lanka: Present status and Future prospects <b><u>A.T. Shanadi</u></b> , G.C Samaraweera, D.L Wathugala, W.A Indika and M.K.S. Madushika
6	1.50 pm – 2.00 pm	Technical Efficiency of Paddy Production and Factors affecting the Efficiency in Anuradhapura district, Sri Lanka <b><u>D.P.Rathnamalala</u></b> and K. Sooriyakumar
	2.00 pm – 2.15 pm	Discussion

Session VII: Food Security and Food Safety

Time: 2.15 pm – 3.30 pm

Zoom Link: <https://zoom.us/j/2120601750?pwd=NDhWNDh1bGQzM3VSd3QvMXRkSndYQT09>

Meeting ID: 212 060 1750

Passcode: J7V8wy

No	Time	Title and authors
1	2.15 pm – 2.25 pm	Analytical Determination of Terephthalic acid and Isophthalic acid Migration into Deep Fried crispy snacks through adulterated edible oils – Method Development and Validation <b>T.M A.N. Weerasinghe</b> , C. R. Gunawardhane <sup>1</sup> , K.G.L.R. Jayathunge <sup>2</sup> , H. R. M. G. C. Thilakarathne <sup>3</sup>
2	2.25 pm – 2.35 pm	Comparative Study on Stability of Coconut Oil, Sunflower Oil and Palm Oil During Deep Frying <b>K. Sharanke</b> and S. Sivakanthan
3	2.35 pm – 2.45 pm	Effect of plantain peel extract on oxidative stability of coconut oil and sesame oil blends during accelerated oven storage <b>B. Nivethini</b> , S. Sivakanthan, S. Vasantharuba
4	2.45 pm – 2.55 pm	Evaluation of effect of Passion Fruit ( <i>Passiflora edulis</i> ) Leaf Extract on Stability of Palm Oil during Heating <b>I.R.N.D. Jayasekara</b> and S. Sivakanthan
5	2.55 pm – 3.05 pm	Quality analysis of selected reverse osmosis treated drinking water samples commercially available in Jaffna district <b>R. Nitharshana</b> , R. Sarathadevi and S. Vasantharuba
	3.05 pm – 3.15 pm	Discussion

Session VIII: Climate Change, Environmental Management and Cleaner Agriculture  
Time: 9.00 am – 10.15 am

Zoom Link:

<https://us02web.zoom.us/j/2120601820?pwd=ZWVhM2NlZWVlUjRzSVNnRzZlYlRwZjV3QT09>

Meeting ID: 212 060 1820

Passcode: Abcd@1234

No	Time	Title and authors
1	9.00 am – 9.10 am	The Effect of Public Influence on Policy Alternatives to Mitigate Climate Change Risks : A Comparative Study in Developed and Developing Countries <b>S.P.H. Vitharana</b> and W.M.W. Kandegama
2	9.10 am – 9.20 am	Seasonal Variation of Rainfall In Vadamadchi Area in Jaffna District Sri Lanka <b>T. Sellathurai</b> , T. Mikunthan, S.S. Sivakumar and N. Karunainathan
3	9.20 am – 9.30 am	The effect of Indian Ocean Dipole (IOD) events on the Second Inter-monsoonal rainfall in the Dry Zone of Sri Lanka <b>A.B. Abeysekera</b> , B.V.R. Punyawardena, B. Marambe, I.M.S.P. Jayawardena, T. Sivananthawerl and V.N.M. Wickramasinghe
4	9.30 am – 9.40 am	Eco-friendly technologies developed to curb chemical fertilizer use: What are the perks available and limitations faced by dry zone paddy farmers in Sri Lanka? <b>A. P. Silva</b> , U. K. Jayasinghe-Mudalige, R. S. Dharmakeerthi, W. S. Dandeniya and B. L. W. K. Balasooriya
5	9.40 am – 9.50 am	Seasonal variations of plant pigments in new hybrid tea [ <i>Camellia sinensis</i> (L.) O. Kuntze] population <b>R.M.T. Dilhani</b> , M.A.B. Ranatunga and G.Thirukkumaran
6	9.50 am – 10.00 am	Farmer Adaptation to Climate Change and Implications for Household Food Security in Anuradhapura District of Sri Lanka <b>S.D.P. Sithumini</b> , J.M.M. Udugama and T.P.S.R. Guruge
	10.00 am - 10.15 am	Discussion



Session IX: Livestock, Aquaculture and Fisheries

Time: 10.15 am – 11.15 am

Zoom Link:

<https://us02web.zoom.us/j/2120601820?pwd=ZWVhM2ZBVVUrSVNnRzZYTWpjejV3QT09>

Meeting ID: 212 060 1820

Passcode: Abcd@1234

No	Time	Title and authors
1	10.15 am – 10.25 am	Comparison of nutritive value in fodder species and industrial by-products available in low country dry zone (DLIb- Anuradhapura District), Sri Lanka <b>R.H.W.M. Karunanayaka</b> , W.A.D. Nayananjalie, S.C. Somasiri, A.M.J.B. Adikari, W.V.V.R. Weerasingha and M.A.A.P. Kumari
2	10.25 am – 10.35 am	Cross Sectional Study of Gastrointestinal Parasitism of Cattle in Kilinochchi District <b>S. Luxsika</b> , S.Pirtheepan and T.Mayurathy
3	10.35 am – 10.45 am	Farmers' Perceptions on Dairy Development Strategies in Vavuniya District, Sri Lanka <b>R. Kamshajini</b> , K. Sooriyakumar and S. Sivashankar
4	10.45 am – 10.55 am	Morphometric Variation Analysis of Black Tiger Shrimp ( <i>Penaeus monodon</i> ) Brood Stock collected from two sites in Sri Lanka <b>P.A.D.L. Anjani</b> , J.A Athula, Chaminda N. Walpita and H.A.D. Ruwandeepika
5	10.55 am – 11.05 am	Potentials and Challenges in Expanding Inland Fishery in Dambe-ara, Wellawaya, Sri Lanka <b>P.S.S.L. Wickrama</b> and D.N. Koralagama
	11.05 am – 11.15 am	Discussion

Session X: Food and Nutrition

Time: 11.30 am – 12.45 pm

Zoom Link:

<https://us02web.zoom.us/j/2120601820?pwd=ZWWh3cnZBVVUrSVNnRzZYTWpjejV3QT09>

Meeting ID: 212 060 1820

Passcode: Abcd@1234

No	Time	Title and authors
1	11.30 am – 11.40 am	Comparative study of glycaemic impact analysis in spices incorporated yoghurts <b>P. Dayani</b> , M.A. Jayasinghe, M.P. Edirisinghe, I. Wijesekara and S.P.A.S. Senadheera
2	11.40 am – 11.50 am	Evaluation of Nutritional Composition and Antioxidant Properties of <i>Cissus quadrangularis</i> ('Pirandai') <b>K. Shakana</b> , R. Sarathadevi and S. Vasantharuba
3	11.50 am - 12.00 pm	Comparative Phytochemical Analysis of Fruit Pulps of Palmyrah Palms of Different Geological Locations of Sri Lanka <b>G. Piraveena</b> , R. Kapilan and K. Velauthamurty
4	12.00 pm – 12.10 pm	Evaluation of the bran extracts of rice ( <i>Oryza sativa</i> L.) and selected bean ( <i>Phaseolus vulgaris</i> L.) varieties for their anti-oxidative and anti-hyperglycemic potentials J.M.N. Marikkar, A.A. Nuurhaffiszzulullah and <b>K.M.R.U. Gunarathne</b>
5	12.10 pm - 12.20 pm	Evaluation of nutritional composition and antioxidant properties of selected seaweeds available in the Northern region of Sri Lanka <b>S. Selvanogelin</b> , R. Sarathadevi and S. Vasantharuba
6	12.20 pm – 12.30 pm	Resistant Starch Contents of Selected Rice ( <i>Oryza sativa</i> L.) Varieties of Sri Lanka <b>P. Printhajini</b> and V. Arasaratnam, V
	12.30 pm – 12.45 pm	

Session XI: Postharvest Technology and Food Bio-Technology

Time: 1.00 pm – 2.30 pm

Zoom Link:

<https://us02web.zoom.us/j/2120601820?pwd=ZWWh3cnZBVVUrSVNnRzZYTWpjejV3QT09>

Meeting ID: 212 060 1820

Passcode: Abcd@1234

No	Time	Title and authors
1	1.00 pm – 1.10 pm	Development of an Artificial Ripening Protocol for Cultivated Variety of “Karuthakolomban” Mango ( <i>Mangifera indica</i> L.) Available in Anuradhapura District, Sri Lanka. <b><i>Nimalika Sewwandi K.A., Wijewardane R.M.N.A, Vasantharuba S.</i></b>
2	1.10 pm – 1.20 pm	Effect of natural edible coatings on quality characteristics and storage behavior of mango ( <i>Mangifera indica</i> L.) during cold storage conditions <b><i>W.M.S.S.K.Weerasinghe, B.A.M.S.Kumara, R.M.N.A. Wijewardane, W. M. C. B. Wasala</i></b>
3	1.20 pm – 1.30 pm	Evaluation of the Effectiveness of Modified Atmospheric Packaging on Postharvest life of Curry Leaves ( <i>Murraya koenigii</i> L.) <b><i>B.A.M.S. Kumara, L.S.K. Ekanayake, W.M.S.S.K. Weerasinghe, R.M.N.A. Wijewardane I, K.H. Sarananda</i></b>
4	1.30 pm – 1.40 pm	Shade Curing Reduce the Postharvest Loss of Big Onion ( <i>Allium cepa</i> ) Selection ‘Dambulla Red’ at Ambient Storage Conditions <b><i>Y.M.P. Samarasinghe, B.A.M.S. Kumara, R.M.N.A. Wijewardana</i></b>
5	1.40 pm – 1.50 pm	Production of Single cell protein from underutilized sea weed <i>Turbinaria</i> spp using mixed culture of palmyrah toddy <b><i>S. Shayanthavi and R. Kapilan</i></b>
6	1.50 pm - 2.00 pm	Optimization of bioethanol production from <i>Chara globularis</i> using <i>Saccharomyces cerevisiae</i> <b><i>E. J. S. B. A. Christy, R. Kapilan, I. Wickramasinghe, and W. L. I. Wijesekara</i></b>
7	2.00 pm – 2.10 pm	Isolation of Lactic Acid Bacteria from <i>Idli</i> Batter and Assessing their Antibacterial Potential <b><i>D. Bernard, N. Jeyagowri and T. Madhujith</i></b>
	2.10 pm – 2.30 pm	Discussion