

4th National Symposium on Agriculture 2021
(NSA-2021)

10th March 2021

**Technological Adaptation in Agriculture to Combat
Unpredicted Calamities
(Virtual Symposium)**

Technical Sessions



Faculty of Agriculture
Eastern University, Sri Lanka

OVERVIEW OF TECHNICAL SESSIONS

Time	Board Room, EUSL	SDC, EUSL	CEDEC, EUSL
9.00 am – 10.00 am	INAUGURATION		
Zoom Link	https://learn.zoom.us/j/66037428954?pwd=Vzh1OVc4ODNEQmQwYlhrYVByK0UxQT09		
10.30 am – 12.10 pm	AGRIBUSINESS MANAGEMENT & FARM EXTENSION	WATER & ENVIRONMENTAL MANAGEMENT	FOOD NUTRITION & VALUE ADDITION
12.10 pm – 1.30 pm		AGRICULTURAL ENGINEERING & WASTE MANAGEMENT	
Zoom Link	https://learn.zoom.us/j/66835748633?pwd=QURVUTVYaldHUDRyVGo1OCtlM0JvZz09	https://learn.zoom.us/j/62897369487?pwd=aTlaTTA5cGxjYkZtUUNITk4rTkxidz09	https://learn.zoom.us/j/61767516535?pwd=NHJlOFkxdm5JM1h5dXJEVEExc240Zz09
2.00 pm - 3.00 pm	CROP PROTECTION & PRODUCTION TECHNOLOGY	CROP PRODUCTION & SOIL MANAGEMENT	LIVESTOCK, FISHERIES & AQUACULTURE
3.00 pm – 4.30 pm			-
Zoom Link	https://learn.zoom.us/j/67960420502?pwd=c2x5NUFzb1R3VksrY3N5U212UTU4Zz09	https://learn.zoom.us/j/69421418104?pwd=bVE2RlNmbXcxaVdhZDFpVUFYSHNEdz09	https://learn.zoom.us/j/64832483605?pwd=bzZ4TDB6d0tobzlsWjAwQ1JmV2hkQT09
4.30 pm - 4.45 pm	CLOSING SESSION		
Zoom Link	https://learn.zoom.us/j/67808449085?pwd=WnlzdWp2K2hFeWcvS3BsbWZkR1JsQT09		

**TECHNICAL SESSION ON
AGRIBUSINESS MANAGEMENT & FARM EXTENSION**

SESSION -I

Chairperson: Dr. P. Sivarajah

Venue: Board Room, EUSL

Panel Members: Dr. T. Bhavan & Mrs. J. Suresh

Time: 10.30 am – 12.10 pm

S. No	Title and Authors	Time
1	Determinants of farmers' knowledge on control methods of major coconut pests H.G.N.M. Ekanayaka* & T. Geretharan	10.30 am – 10.50 am
2	Ornamental fish production in Colombo District: Especially in the context of COVID-19 pandemic. W.A.R.N.Weerasinghe*, S.H.P. Malkanthi & L.H.C.J. Kumara	10.50 am – 11.10 am
3	Socio- economic determinants of small-scale paddy farming: A case study in Kalutara District K. C. Fernando, K. Thirumarpan & J. Jeyapragash*	11.10 am – 11.30 am
4	Paddy farmers' preferred sources of Pesticide-Related information in Thamankaduwa DS Division of Polonnaruwa District R.M.Y.Ritigahapola* & T.Geretharan	11.30.am – 11.50 am
5	Impact of agricultural training on technological knowledge application by farmers in Bandarawela agricultural zone W.M.C. Rasanjali*, P. Sivashankar, R.D.M.K.K. Wimalachandra & S.H.P. Malkanthi	11.50 am -12.10 pm

SESSION –II

Chairperson: Dr. T. Bhavan

Venue: Board Room, EUSL

Panel Members: Mrs. T. Geretharan & Mrs. J. Suresh

Time: 12.15 pm – 1.35 pm

6	Production and Marketing of Major Fruit Crops in Anuradhapura District of Sri Lanka J.M.H.M. Upulwehera* & P.Sivarajah	12.15 pm – 12.35 pm
7	Opportunity cost of producing sugarcane, sweet orange, and soybean in dry zone of Sri Lanka: An Economic analysis T. Kirupananthan*	12.35 pm – 12.55 pm
8	Participatory approach for water security: A methodological inquest based on stakeholders' perspectives, Nallur DS Division S. Srikanthan & S. Jeevasuthan*	12.55 pm – 01.15 pm
9	Local food marketing as an opportunity for small and medium scale enterprises (SMEs) development - A case of tropical fruits processors in Rathnapura District in Sri Lanka. G.L.N. Perera*, K.K.H.M. Rathnayake & R.A.D.A.Ranasinhe	01.15 pm – 01.35 pm

**TECHNICAL SESSION ON
WATER & ENVIRONMENTAL MANAGEMENT**

Chairperson: Prof S. Arasarathnam		Venue: SDC, EUSL
Panel Members: Dr. M. Sithambaresan & Mr. M. Rajendran		Time: 10.30 am – 11.50 pm
S. No	Title and Authors	Time
1	Ability of water hyacinth (<i>Eichhornia crassipes</i>) in purifying pollutants from dairy industrial wastewater R.P.H.I. Weerasinghe* & R. Thivyatharsan	10.30 am – 10.50 am
2	Spatial variation of water quality in Jaffna Lagoon. T. Piragasiny, T.Mikunthan*, M.Prabhakaran & K.S.Sivanesan	10.50 am – 11.10 am
3	Development of a hydrometric network for the Jaffna Peninsula, Sri Lanka M. Chandrasiva*, N. Piratheeparajah & L. D. Rajasooriyar	11.10 am – 11.30 am
4	Evaluation of surface water quality parameters in water hyacinth (<i>Eichhornia crassipes</i>) infested water bodies. AM M. Asmath, S.L. Rasmiya Begum* & L.F. Zisath Shama	11.30 am – 11.50 am

**TECHNICAL SESSION ON
AGRICULTURAL ENGINEERING & WASTE MANAGEMENT**

<i>Chairperson: Mr. M. Sugirtharan</i>		<i>Venue: SDC, EUSL</i>
<i>Panel Members: Mr. R. Kiruparajah & Mr. M. Rajendran</i>		<i>Time: 11.55 pm – 1.35 pm</i>
S. No	Title and Authors	Time
5	A review on composition of municipal solid waste in Sri Lanka W. Shamini Irusha* & R. Thivyatharsan	11.55 pm – 12.15 pm
6	Mapping of Palmyrah tree using geospatial technology S. Vinujan* & S. Srivijeindran	12.15 pm – 12.35 pm
7	Evaluation of different composting methods for organic wastes generated within Eastern University, Sri Lanka L.B. Kongahawatta* & R. Thivyatharsan	12.35 pm – 12.55 pm
8	Efficiency of hydroponic system in removing the selected pollutants found in the rice mill wastewater in Anuradhapura S.R.A.S. Rajapaksha* & R. Thivyatharsan	12.55 pm- 1.15 pm
9	Testing and evaluation of fabricated two-wheel tractor mounted onion harvester R. G. Ishan Randika Rajapakshe, M. Prabhakaran* & T. Sellathurai	1.15 pm – 1.35 pm

**TECHNICAL SESSION ON
FOOD NUTRITION & VALUE ADDITION**

SESSION-I

Chairperson: Dr.K.Premakumar

Venue: CEDEC, Board Room

Panel Members: Dr.(Mrs).C.G.Devadason & Dr.(Mrs).S.Rajavarthani

Time: 10.30 am – 12.10 pm

S. No	Title and Authors	Time
1	Proximate, mineral and phytochemical analysis of selected wild edible green weeds of Commelinaceae family N. C. I. De Silva* & U. Mathiventhan	10.30 am – 10.50 am
2	Effect of locally available carbon and nitrogen sources on the simultaneous production of α -amylase and bioethanol from <i>Saccharomyces cerevisiae</i> M. R. F. Rafadha* & A. Vengadaramana	10.50 am – 11.10 am
3	Antioxidant and anti-inflammatory properties of selected edible flowers of some medicinal plants G. Janarny*, K.D.P.P. Gunathilake & K.K.D.S. Ranaweera	11.10 am – 11.30 am
4	The study of physicochemical properties of Water lily (<i>Nymphaea pubescens</i>) seed flour N.N.G. Chiranthika*, K.D.P.P. Gunathilake, & Ananda Chandrasekara	11.30 am – 11.50 am
5	Comparison of Antioxidant activity and Phenolic content of seed extracts of <i>Phyllanthus emblica</i> and <i>Phyllanthus acidus</i> H.A.C.O. Hettiarachchi*, K.D.P.P Gunathilake & S. Jayatilake	11.50 am – 12.10 pm

SESSION-II

Chairperson: Dr.(Mrs).C.G.Devadason

Venue: CEDC Board Room

Panel Members: Dr. (Mrs).S.Rajavarthani & Mrs.U.Mathiventhan

Time: 12.15 pm – 01.35 pm

S. No	Title and Authors	Time
6	Physico-chemical and organoleptic qualities of cereal bar combined with <i>Kurrakkan</i> flake and Popped corn W.A.N.Pavithra Weerasinghe* & S.Amuthenie	12.15 pm – 12.35 pm
7	Potential of manufacturing jam using Tamarind pulp V.K.A Janith Saranga, K. Premakumar & S. Sahana*	12.35 pm – 12.55 pm
8	A study on the biodegradable edible coating using hibiscus <i>Rosa-sinensis</i> leaf mucilage with gelatin to increase the shelf life of guava fruits S. Deviahayshini* & T. Mahendran	12.55 pm – 01.15 pm
9	Effects of salt concentration on quality of Sauerkraut during storage M. A. S. F. Sabrana, K. Premakumar & S. Sahana*	01.15 pm – 01.35 pm

**TECHNICAL SESSION ON
CROP PROTECTION & PRODUCTION TECHNOLOGY**

SESSION-I

Chairperson: Dr.(Mrs.) M. Vinobaba

Venue: Board Room, EUSL

Panel Members: Dr. (Mrs.) C. Mahendranathan & Dr. T. Mathiventhan

Time: 2.00 pm – 3.00 pm

S. No	Title and Authors	Time
1	Effect of selected medicinal plants on the management of Pulse beetle, (<i>Callosobruchus maculatus</i> F.) in stored seeds of Green gram, (<i>Vigna radiata</i> L. Wiliczek) under laboratory condition M. T. F. Rumaisa* & R. F. Niranjana	2.00 pm – 2.20 pm
2	Screening of plant extracts and oils against Soft Rot Bacterium, <i>Pectobacterium carotovorum</i> E. Vinobia, N. Thiruchchelvan, K. Pakeerathan* & G. Mikunthan	2.20 pm – 2.40 pm
3	Efficacy of traditional practices for controlling cowpea weevil (<i>Callosobruchus maculatus</i> L). in stored cowpea (<i>Vigna unguiculata</i>) S. Karunakaran* & R. F. Niranjana	2.40 pm – 3.00 pm

SESSION-II

Chairperson: Prof.(Mrs.) T.H.Seran

Venue: Board Room, EUSL

Panel Members: Dr.(Mrs.)R. F .Niranjana & Dr. T. Mathiventhan

Time: 3.10 pm – 4.30 pm

S. No	Title and Authors	Time
4	Nitrate removal potential of newly isolated <i>Pseudomonas aeruginosa</i> strain (A22) in a synthetic medium K. Abhiramy*, N. Gnanavelrajah & R. R. Ratnayake	3.10 pm – 3.30 pm
5	Effect of different trellis systems and training methods on cucumber (<i>Cucumis sativus</i> L.) Production Y. Abishajini*, S. Sivachandiran & G. Asharp	3.30 pm – 3.50 pm
6	Distribution of Weedy rice (<i>Oryza spontaneus</i>) seeds among different soil depths of paddy fields in Batticaloa District R.F. Mufliha, M.Kalaimathy* & T.Geretharan	3.50 pm – 4.10 pm
7	Integrated nutrient management for sustainable production of Brinjal (<i>Solanum Melongina</i> . L) in sandy regosol. K. A. A. L. Weerasingha*, D.S.M.M.S. Samiraja & Brintha Karunarathna	4.10 pm – 4.30 pm

**TECHNICAL SESSION ON
CROP PRODUCTION & SOIL MANAGEMENT**

Chairperson: Prof. S. Sutharsan		Venue: SDC, EUSL
Panel Members: Dr. T. Geretharan & Mrs. Brintha Karunaratna		Time: 2.00 pm – 3.40 pm
S. No	Title and Authors	Time
1	Effect of IBA on <i>in vitro</i> adventitious root formation in tuber explants of Potato (<i>Solanum tuberosum</i> L.) S.Kirijadevi*, P.D.Abeythilakaratha & T.H Seran	2.00 pm – 2.20 pm
2	Effect of different levels of Triple Super Phosphate on vegetative growth of Turmeric (<i>Curcuma longa</i> L.) in Intermediate zone of Sri Lanka D.S.H. Dissanayake*, P. Premanadarajah & T. Eranga Weerawardena	2.20 pm – 2.40 pm
3	Comparison of Ammonium acetate and Calcium chloride extracted exchangeable Potassium concentration in paddy soil samples in Sri Lanka N.D.R. Madushan*, H.M.N.M. Herath, B.G.G. Wijesooriya, D.A.T. Samarasinghe, W.M.U.K. Rathnayake, D.N. Sirisena, M. Ariyaratne & L.D.B. Suriyagoda	2.40 pm – 3.00 pm.
4	Evaluation of an innovative organic fertilizer on growth and yield of Curry Chilli (<i>Capsicum frutescens</i> L.) K. Jeyakumar* & N.Gnanavelrajah	3.00 pm – 3.20 pm
5	Impact of bio-fertilizer and urea as sole and in combination on soil properties and growth performance of paddy V. Dishalini* & P. Premanadarajah	3.20 pm – 3.40 pm

**TECHNICAL SESSION ON
LIVESTOCK, FISHERIES & AQUACULTURE**

Chairperson: Dr.K.Premakumar		<i>Venue: CEDEC Board Room</i>
Panel Member: Dr. (Mrs.) C.G.Devadasan, Dr.Muneeb M.Musthafa		<i>Time: 2.00 pm – 3.00 pm</i>
S. No	Title and Authors	Time
1	Instrumental texture and syneresis analysis of yoghurt prepared from goat and cow milk W.K.D.H.D. Madhuwanthi* & M. Pagthinathan	2.00 pm – 2.20 pm
2	Effect of edible Seaweed (<i>Gracilaria edulis</i>) on quality parameters of set yoghurt M. Pagthinathan & M.P.R. Sudara*	2.20 pm – 2.40 pm
3	Status of goat production in Sri Lanka - A Review M. M. Mahusoon & J. P. H. N. Karunathilaka	2.40 pm – 3.00 pm



Welcome to 4th National Symposium on Agriculture 2021

NSA
2021

10th March 2021

Virtual Symposium

FACULTY OF AGRICULTURE
EASTERN UNIVERSITY, SRI LANKA



*“Technological Adaptation in Agriculture to
Combat Unpredicted Calamities”*