## TIIKM's 2<sup>nd</sup> Annual International Conference on Agriculture and Forestry



"Sustainable Agriculture and Global Food Security"



10<sup>th</sup> – 12<sup>th</sup> June, 2015, Hotel Galadari, Colombo, Sri Lanka

	Conference Program			
	Day 01: Wednesday, 10 <sup>th</sup> June 2015			
	Start	End	Bougainvillea Room	
0	3.30 p.m.	05.30 p.m.	Conference Registration	
		Day 0	2 : Thursday, 11 <sup>th</sup> June 2015	
0	08.00 a.m.	09.00 a.m.	Conference Registration	
0	99.00 a.m.	09.40 a.m.	Inauguration Session  Welcome Address by the Conference Chair of ICOAF 2015 Prof. D.K.N.G. Pushpakumara (Department of Crop Science, University of Peradeniya, Sri Lanka.)  Speech by Conference Program Chair Mr. Isanka P. Gamage (Director- The International Institute of Knowledge Management [TIIKM], Sri Lanka)	
09.40 A.M 10.25 A.M.	09.40 a.m.	10.25 a.m.	Reynote forum  Prof. M.S. Swaminathan  (Founder Chairman, M S Swaminathan Research Fundation)  President of the International Union for the Conservation of Nature and Natural Resources (1984-90). President of the World Wide Fund for Nature (India) from 1989-96. He also served as President of the Pugwash Conferences on Science and World Affairs (2002-07), President of the National Academy of Agricultural Sciences (1991-96 and 2005-07) and Chairman, National Commission on Farmers (2004-06). Director of the Indian Agricultural Research Institute (1961-72), Director General of Indian Council of Agricultural Research and Secretary to the Government of India, Department of Agricultural Research and Education (1972-79), Principal Secretary, Ministry of Agriculture (1979-80), Acting Deputy Chairman and later Member (Science and Agriculture), Planning Commission (1980-82) and Director General, International Rice Research Institute, the Philippines (1982-88)	

1	0.25 a.m.	11.00 a.m.	Conference Photograph & Morning Refreshment
12.30 P.M.	11.00 a.m.	11.45 a.m.	Keynote forum continue  Prof. Buddhi Marambe (Department of Crop Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.)
11.00 A.M.	11.45 a.m.	12.30 p.m.	<b>Prof. D. K Weerakoon</b> (Department of Zoology, University of Colombo, Sri Lanka)
1	2.30 p.m.	01.45 p.m.	Networking Lunch
01.45 P.M 03.25 P.M.			Bougainvillea Room  TECHNICAL SESSION 1: SOCIAL MOTIVATION, ASSESSMENT AND MANAGEMENT OF FARMING SYSTEMS  Chaired by Prof. Buddhi Marambe (Department of Crop Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.)
	01.45 p.m.	02.05 p.m.	Dr. K. Vidya Dharshini     (Unit of Siddha Medicine, Trincomalee Campus, Eastern University, Sri Lanka)     Survey on Commonly Used Medicinal Plants - in Muthunagar Grama Niladhari Division, Trincomalee District, Sri Lanka
	02.05 p.m.	02.25 p.m.	Ms. Chandima Wekumbura     (Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka)     Species Richness of Some Selected well Managed and Standard Home Gardens in Nawalapitiya Area, Sri Lanka

	02.25 p.m.	02.45 p.m.	<ul> <li>Ms. Sumudu Prasanthi Chandrasiri         (Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka)         Assessment of Reliability, Resilience and Vulnerability of Irrigation in Paddy Field in a Minor Irrigation System Using Peizometer Method</li> <li>Dr. Ferdouse Islam         (Olericulture Division, Horticulture Research Centre, Bangladesh Agricultural Research Institute (BARI), Gazipur)         Women Empower for Food and Nutrition Issues in Bangladesh</li> <li>Prof. Ajit Kumar Bera         (P.G. Department of Geography, Barrackpore R.S. college, India)         Impacts of Urbanization on Agriculture and Water Resources in North 24- Parganas District of West Bengal, India</li> </ul>
	02.45 p.m.	03.05 p.m.	
	03.05 p.m.	03.25 p.m.	
03.25 P.M 04.05 P.M.	03.25 p.m.	04.05 p.m.	<ul> <li>Dr. Kurtulus Erinc Akdogan         <ul> <li>(Proline Integrated Intelligence, Turkey)</li> <li>Assessment of Forest Cover, Deforestation, Human-Induced Disturbances by Using Remote Sensing Methods in Istanbul</li> </ul> </li> <li>Prof. Munir Aziz Turk         <ul> <li>(Faculty of Agriculture, Jordan University of Science and Technology (JUST), Jordan)</li> <li>Effects of Priming Treatments on Seed Germination and Seedling Growth of Two Medicago Species</li> </ul> </li> </ul>

			Anthurium Room  TECHNICAL SESSION 2: FLORAL BIOLOGY, GERMPLASM, GENETICS AND PLANT BREEDING  Chaired by Prof. D.K.N.G. Pushpakumara (Chair ICOAF 2015, Department of Crop Science, University of Peradeniya, Sri Lanka.)
01.45 P.M 04.05 P.M.	01.45 p.m.	02.05 p.m.	<ul> <li>Ms. Dinesha Udayangani Pushpakumari         (Board of Study in Agriculture, Faculty of Graduate Studies, University of Ruhuna, Sri Lanka)         Inheritance of Pericarp Color in Sri Lankan Traditional Rice</li> <li>Dr. Neeta Shivakumar         (Department of Biotechnology, R V College of Engineering, India)         The Effect of Chemical Mutagens Upon Morphological Characters of Ginger (Zingiber Officinale) in MO Generation</li> <li>Ms. Rumana Azad         (Board of Study in Agriculture, Faculty of Graduate Studies, University of Ruhuna, Sri Lanka)         Morphological Variation within Progeny and Deviations from Mother Plant Reveal the Allele Richness in Cinnamomum Verum Germplasm: A Case Study from Deiyandara, Matara Collection at Early Vegetative Stage</li> <li>Ms. Ruwani Gayanthika         (Department of Plant Sciences, University of Colombo) Enhancing Anther Culture Response in Rice Variety At 303 with Mannitol and Nitrogen Stress</li> </ul>
	02.05 p.m.	02.25 p.m.	
	02.25 p.m.	02.45 p.m.	
	02.45 p.m.	03.05 p.m.	
	03.05 p.m.	03.25 p.m.	Ms. Udari Uvindhya Rathnathunga     (Board of Study in Agriculture, Faculty of Graduate Studies, University of Ruhuna, Sri Lanka)     Effect of Photoperiod on Vegetative Growth Responses of Sri Lankan Traditional Rice

	03.25 p.m.	03.45 p.m.	Ms. Duvini Padukkage     (Board of Study in Agriculture, Faculty of Graduate Studies, University of Ruhuna, Sri Lanka)     Morphological Variation among Accessions of Sri Lankan Traditional Rice Variety "Herath Banda"
	03.45 p.m.	04.05 p.m.	<ul> <li>Ms. Sathyakala Kodeeswaranathan         <ul> <li>(Department of Agricultural Biology, Faculty of Agriculture, University of Jaffna)</li> <li>Determination of Flower Biology of Underexploited Pollinator Attracting Vegetable, Luffa Cylindrica (L.)</li> <li>Growing in Home Gardens of Jaffna</li> </ul> </li> </ul>
0	4.05 p.m.	04.20 p.m.	Evening Refreshment
			Bougainvillea Room  TECHNICAL SESSION 3: FOOD AND ANIMAL SCIENCE  Chaired by Prof. D.K.N.G. Pushpakumara (Chair ICOAF 2015, Department of Crop Science, University of Peradeniya, Sri Lanka.)
04.20 P.M 06.20 P.M.	04.20 p.m.	04.40 p.m.	Ms. Elango Subalini     (Department of Animal Science, Faculty of Agriculture, Eastern University, Sri Lanka)     Feeding, Non-Feeding and Breeding Behavior of Crossbred Goats under Free Range Scavenging Systems During Cool and Hot Seasons
	04.40 p.m.	05.00 p.m.	Ms. Sujirtha Nadarajah     (Department of Agricultural Chemistry, Faculty of Agriculture, Eastern University, Sri Lanka)     Production, Quality Assessment and Shelf Life Evaluation of Protein - Rich Biscuits Made from Blends of Wheat and Defatted Coconut Flours

	05.00 p.m.	05.20 p.m.	<ul> <li>Dr. Nar Bahadur Tamang         (Department of Livestock, Ministry of Agriculture &amp; Forests, Bhutan)         Is Feed and Fodder Shortage a Major Impediment to Accelerated Livestock Development in Bhutan?     </li> </ul>
	05.20 p.m.	05.40 p.m.	<ul> <li>Ms. Elango Subalini         (Department of Animal Science, Faculty of Agriculture, Eastern University, Sri Lanka)         Investigation on the Prevalence of Tick Infestation in Cattle at Different Farming Systems in Batticaloa District</li> <li>Ms. Ruwani Lavindhi Wimalasekara         (Department of Microbiology, Faculty of Science, University of Kelaniya, Sri Lanka)         Microbiological Quality of Ready-To-Eat Meat Based Food Products Available in Colombo, Sri Lanka</li> </ul>
	05.40 p.m.	06.00 p.m.	
	06.00 p.m.	06.20 p.m.	Dr. Tholkappian Panchaksharam     (Department of Microbiology, Faculty of Agriculture, Annamalai University, India)     Biosurfactant Process Synthesis and Stabilization of Silver Nanoparticles for Modified Preservation Methods on Common Fermented Foods
			Anthurium Room
<u>-</u>			TECHNICAL SESSION 4: FOREST TREES AND FOREST MANAGEMENT
05.40 P.N			Chaired by Prof. D. K Weerakoon (Department of Zoology, University of Colombo, Sri Lanka)
1			<ul> <li>Dr. Peter Voo         (Faculty of Psychology and Education, University</li> </ul>
04.20 P.M.	04.20 p.m.	04.40 p.m.	Malaysia Sabah)  Key Issues in Application of Community Use Zone (CUZ) to Crocker Range Park from the Perspective of Social Work
			<ul> <li>Dr. Rupesh. N. Nakar</li> <li>(Seth PT Arts &amp; Science College, India)</li> </ul>
	04.40 p.m.	05.00 p.m.	Studies on Phenological Behavior of Two Cassia Species in Girnar Reserve Forest, Gujarat, India

	05.00 p.m.	05.20 p.m.	Ms. Omali Menike Karunaratne     (Department of Plant Sciences, Faculty of Agriculture, Rajarata University of Sri Lanka)     In Vitro Propagation of Teak (TECTONA GRANDIS. L)
	05.20 p.m.	05.40 p.m.	Mr. Anthony Chidubem Chime     (Department of Agricultural & Bio-Environmental Engineering, Institute of Management and Technology (IMT), Enugu)     Post Fire Effect on the Physicochemical Properties of Owerri - West Coastal Plain Soil
07.00 p.m. onwards		nwards	Conference Dinner & Cultural Show @ Light House Galley - Hosted by TIIKM

## Day 03 : Friday, 12<sup>th</sup> June 2015

	Start	End	
			Bougainvillea Room
			TECHNICAL SESSION 5: CLIMATE CHANGE, CLIMATE AND PRICE FORCASTING
10.20 A.M.			<b>Chaired by Prof. Ajit Kumar Bera</b> (P.G. Department of Geography, Barrackpore R.S. College, India)
09.00 A.M 1	09.00 a.m.	09.20 a.m.	<ul> <li>Ms. Mphangera Kamanga         (Plant production and Soil Science Department,         University of Pretoria, South Africa)         Assessment of the Variability of Yield of Maize in         Lilongwe District (MALAWI) in Response to Climate         Change Using DSSAT Model</li> </ul>
	09.20 a.m.	09.40 a.m.	Dr. Pablo Pedro Pomboza     (Faculty of Agricultural Sciences, Technical University of Ambato, Ecuador)     Local Climate Knowledge in the Crops of Onion (ALLIUM CEPA L.) in the Central Andean Region of Ecuador

	09.40 a.m.	10.00 a.m.	Mr. Yogarajah Balasubramaniam     (Department of Physical Science, Vavuniya Campus, University of Jaffna, Sri Lanka)     Impact of Long Term Rainfall on Paddy Yield in Batticaloa District
	10.00 a.m.	10.20 a.m.	<ul> <li>Dr. Aye Aye Khin         <ul> <li>(Faculty of Business Management &amp; Professional Studies (FBMP), Management and Science University (MSU), Malaysia)</li> <li>Natural Rubber Price Forecasting Using Simultaneous Supply-Demand and Price System Equation and VECM Model: Between Theory and Reality</li> </ul> </li> </ul>
10	0.20 a.m.	10.50 a.m.	Morning Refreshment
P.M.			Bougainvillea Room  TECHNICAL SESSION 6: AGRONOMY, WEED AND CROP MANAGEMENT  Chaired by Prof. Therese Shamala Tirimanne (Department of Plant Sciences, University of Colombo, Sri lanka)
10.50 A.M 12.50 P.M.	10.50 a.m.	11.10 a.m.	Dr. S. Babu     (Department of Agronomy, Faculty of Agriculture, Annamalai University, India)     Evaluation of Conservation Tillage along with the Application of Glyphosate Vis-À-Vis Conventional Tillage in Rice — Pulse Cropping System in Low Land Areas of Cauvery Delta
	11.10 a.m.	11.30 a.m.	Dr. G. Murugan     (Department of Agronomy, Faculty of Agriculture, Annamalai University, India)     Effect of Weed Management Practices in Conventional and Mechanical Planting of Transplanted Rice

	11.30 a.m.	11.50 a.m.	Dr. J. Nambi     (Department of Agronomy, Faculty of Agriculture, Annamalai University, India)     Effect of Crop Establishment Methods and Weed Management for Irrigated Redgram
	11.50 a.m.	12.10 p.m.	Prof. Samih Mohammad Abubaker     (Department of Plant Production and Protection, Al-Balqa Applied University, Jordan)     Potato Production Under Brakish Water and Compost Use
	12.10 p.m.	12.30 p.m.	Dr. Ghulam Hasan Abbasi     (Department of Soil Science, University College of Agriculture & Environmental Sciences, The Islamia University of Bahawalpur)     Alleviation of Chromium Toxicity in Chickpea (CICER ARIETINUM L.) through Exogenous Application of Salicylic Acid
	12.30 p.m.	12.50 p.m.	Ms. Chathuri Lankani Karunarathne     (Department of Crop Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka)     Influence of Supplementary Illumination for Greenhouse Gherkins to Reduce the Pre-Mature Fruit Drop and to Increase Grade-1 Fruit Yield
10.50 A.M. – 12.30 P.M.			Anthurium Room  TECHNICAL SESSION 7: PEST AND DISEASE MANAGEMENT  Chaired by Prof. D.K.N.G. Pushpakumara (Chair ICOAF 2015, Department of Crop Science, University of Peradeniya, Sri Lanka.)
10.50 A.	10.50 a.m.	11.10 a.m.	Dr. R. Kanagarajan     (Department of Entomology, Faculty of Agriculture, Annamalai University, India)     Influence of Selected Paddy Varieties on Chalcidid (HYMENOPTERA: CHALCIDOIDEA) Parasitoid Population

	11.10 a.m.	11.30 a.m.	<ul> <li>Mr. Arumugam Vengadaramana         (Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka)         Morphological and Pathogenic Variations of Colletotrichum and Fusarium Isolates Responsible for Leaf Twister Disease of Onion in Trincomalee District, Sri Lanka     </li> </ul>
	11.30 a.m.	11.50 a.m.	<ul> <li>Mrs. Nithiyagowry Rajan         (Department of Zoology, University of Jaffna, Sri Lanka)         Orientational Effect of Aqueous Leaf Extract of Citrus         Aurantifolia (LIME) on Housefly, Musca Domestica         (DIPTERA:MUSCIDAE)     </li> </ul>
	11.50 a.m.	12.10 p.m.	• <b>Dr. N. Muthukumaran</b> (Department of Entomology, Faculty of Agriculture, Annamalai University, India) Studies on Antibiosis Resistance of Okra Accessions Against Shoot and Fruit Borer Earias Vittella (Fab.)
	12.10 p.m.	12.30 p.m.	<ul> <li>Dr. Parthasarathi Rengasamy         (Department of Microbiology, Faculty of Agriculture, Annamalai University, India)         A Potential Biosurfactant Mediated Control of Fusarium Wilt in Tomato Crop and a Novel Method for Cleaning Pesticide Residues in Tomatoes     </li> </ul>
	12.50 p.m.	02.00 p.m.	Networking Lunch
02.00 P.M - 04.00 P.M.			Bougainvillea Room  TECHNICAL SESSION 8: NUTRIENT MANAGEMENT  Chaired by Prof. Ajit Kumar Bera (P.G. Department of Geography, Barrackpore R.S. College, India)

	02.00p.m.	02.20 p.m.	• <b>Dr. R. Gobi</b> (Department of Agronomy, Faculty of Agriculture, Annamalai University, India) Sulphur and Micronutrients (Zn & B) Effect on Cotton Growth Characters, Yield Attributes, Yield and Economics
	02.20 p.m.	02.40 p.m.	• <b>Dr. Thiruppathi Modakutti</b> (Department of Agronomy, Faculty of Agriculture, Annamalai University, India)  Weed Manure as an Alternative Sources to Chemical Nitrogen for Sustained Productivity in Rice
	02.40 p.m.	03.00 p.m.	<ul> <li>Dr. P. Stalin         (Department of Agronomy, Faculty of Agriculture, Annamalai University, India)         Integrated Plant Nutrient Supply System for Sustainability in Rice-Pulse Cropping System     </li> </ul>
	03.00 p.m.	03.20 p.m.	Ms. Thilini Anuruddhika Perera     (Department of Plant Sciences, Faculty of Science, University of Colombo, Sri Lanka)     Azorhizobium Caulinodans ORS 571 — Aspergillus Spp. Biofilm and Naringenin: A Perfect Combination for Achieving the Full Potential of Vegetative Growth of Rice with 50% Reduction of Urea Fertilizer
	03.20 p.m.	03.40 p.m.	Dr. Sadhana balasubramanian     (Centre for Research and P.G Department of Botany, Thiagarajar College, India)     Interaction Effect of AM Fungi and Salt Stress on the Growth of Curcuma Longa L. Grown under Greenhouse Condition
	03.40 p.m.	04.00 p.m.	<ul> <li>Dr. Thanunathan Kollapan         (Professor and Head , Dept of Agronomy, Faculty of Agriculture, Annamalai University, India)         Production Potential and Soil Fertility Management in Castor Based Intercropping System     </li> </ul>
04	04.00 p.m. 04.20 p.m		Evening Refreshment

04.20 p.m.	04.40 p.m.	Conference Concluding Session
04.40 p.m.	05.10 p.m.	Awarding Ceremony
05.10 p.m.	05.30 p.m.	Vote of thanks by the Conference Publication Chair:  Mr. Oshadee Withanawasam (Director- The International Institute of Knowledge Management (TIIKM), Sri Lanka)

Day 04 : Saturday, 13<sup>th</sup> June 2015- *Post Conference Tour (Optional)* 

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