

# PROGRAMME - RISTCON 2015

22<sup>nd</sup> January 2015

Time	Abstract No	Topic
08.00 – 12.30	<b>Registration and INAUGURAL SESSION</b>	
12.30 – 13.30	Lunch Break	
13.30 – 14.30	<b>Invited Presentations: Prof. UpulWijyantha</b> <i>Laugborough University, UK</i> “Recent Research Advances at ERL”	
14.30 – 15.00	Tea Break	
<b>Session D1-A</b>		
<b>Chairperson: Dr. W.K.C. NeethaJayanthi</b>		
15.00	D-037	<b>Study the effect of ZnO and TiO<sub>2</sub> to develop photo-degradable LDPE based composite materials</b> <i>A.M.P.B Samarasekara, M.D.S.LWimalananda, N Muthugala</i>
15.15	D-039	<b>Effect of natural enzymes on the biodegradability of cellulose containing polymer composites</b> <i>A.M.P.B Samarasekara, E. A. P. C. D Jayasuriya</i>
15.30	D-026	<b>A Context-Free Grammar for IUPAC names of Hydrocarbons for Developing a Syntactic Parser Using Swi-Prolog</b> <i>S Mahesan</i>
15.45	D-027	<b>Improving the performance of an algorithm by using multiple single dimensional memory structures for index mapping</b> <i>K.K.L.B. Adikaram, M.A. Hussein, M. Effenberger, T. Becker</i>
16.15 – 17.15	<b>Invited Speech: Prof. SarathKotagama</b> <i>Department of Zoology, University of Colombo</i> “Integration of natural resources in development through research”	

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13.30 – 14.30	<b>Invited Presentations: Prof. UpulWijyantha</b> <i>Laugborough University, UK</i> “Recent Research Advances at ERL”	
14.30 – 15.00	Tea Break	
<b>Session D1-B</b>		
<b>Chairperson: Prof. W.G.D. Dharmaratna</b>		
15.00	D-010	<b>Forecast Monthly Cinnamon Prices in Matara District using Double Exponential Smoothing Model</b> <i>S.D.M.Dilshani, K.D.Prasangika, L.A.L.W.Jayasekara</i>
15.15	D-011	<b>Designing Energy Tax Rate to Optimize Energy usage in Garment Factories using Game Theory</b> <i>A.M.C.D Wickramasinghe, W.B. Daundasekera</i>
15.30	D-031	<b>Comparison of ARIMA and Neural Network Models for S &amp; P SL(20) Index</b>

		<i>E.J.K.P. Nandani, M.K.Mahinda</i>
15.45	D-040	<b>Modeling Outcome Reporting Bias in Meta-analysis for 3 × 2 Tables: Parameter estimation using Markove Chain Monte Carlo Method</b> <i>K.D.Prasangika, L.A.L.W.Jayasekara</i>
16.00	D-024	<b>A study on parameter estimation in modelling using a model independent program – PEST</b> <i>Pasdunkorale A. Jayantha, M.K. Abeyratne</i>
<b>16.15 – 17.15</b>	<b>Invited Speech: Prof. SarathKotagama</b> <i>Department of Zoology, University of Colombo</i> “Integration of natural resources in development through research”	

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<b>Session D2</b> <b>Chairperson: Prof. L.A.L.W.Jayasekara</b>		
08.30	D-029	<b>Properties of CdS thin films prepared using the electro-deposition technique for applications in CdS/CdTe solar cells</b> <i>D.A.Madarasinghe, G.D.K.Mahanama, W.G.D.Dharmaratna, D. Jayasundara</i>
08.45	D-009	<b>Dye Sensitized Solar Cells Fabricated with Polymer Free Quasi Solid State (gel) electrolyte</b> <i>A.M.J.S. Weerasinghe, M.A.K.L. Dissanayake, G.K.R Senadeera, V.A. Senavirathne, C.A. Thotawatthage, J.M.K.W. Kumari</i>
09.00	D-021	<b>Smooth perturbation technique and wave propagation in a random medium – a case study</b> <i>R.K. Bhattacharyya</i>
09.15	D-023	<b>An Application of Nonparametric Kernel Density Estimators in Colombo Stock Market Indices</b> <i>M.P.A. Wijayasiri, M.K. Abeyratne</i>
<b>09.30 – 10.30</b>	<b>Invited Presentation: Prof. Naoki Hirotsu</b> <i>Toyo University, Japan</i> “The genetic control of rice yield using novel genes”	
10.30 – 11.00	Tea Break	
<b>11.00 – 12.00</b>	<b>Invited Presentations: Dr. SamanSeneweera (Session A &amp; C)</b> <b>Dr. WimalUbhayasekera (Session B &amp; D)</b>	
12.00 – 13.15	Lunch Break	
13.15 – 14.15	Poster session	
<b>Session D3</b> <b>Chairperson: Prof. W.G.D. Dharmaratna</b>		
14.15	D-022	<b>Joint probability distribution for drought duration and drought severity based on copula methods for Hambantota District, Sri Lanka</b>

		<i>E.M.R.S.B Ekanayake, KanthiPerera</i>
14.30	D-006	<b>Extreme value analysis of wind speed in Puttalam, Sri Lanka</b> <i>P.K.M.A. Nonis, K. Perera</i>
14.45	D-032	<b>Mathematical model for T-cell-APC system based on Random Energy Model</b> <i>C.P.S. Pathirana, J.R. Wedagedara, N. Yapage</i>
15.00	D-004	<b>Factors Associated with Implementing ERP Systems in Sri Lanka</b> <i>M.A.P. Sooriyabandara, R.A.B. Abeygunawardana</i>
15.15	D-007	<b>Modeling Tourist Arrivals to Sri Lanka</b> <i>K.M.U.B. Konarasinghe</i>
15.30 – 16.00	Tea	