Programme



Promoting Innovation through Research

14th Academic Sessions and 13th Vice Chancellor's Awards Ceremony

1st March 2017

Organized by Faculty of Engineering University of Ruhuna Hapugala, Galle

14th Academic Sessions and 13th Vice Chancellor's Awards Ceremony

1st March 2017, Faculty of Engineering, University of Ruhuna

Agenda

7.30 - 8.30	Registration (Venue: Auditorium, Faculty of Engineering, University of Ruhuna)
8.30 - 8.40	Ceremonial Procession
8.40 - 8.45	Welcome Dance
8.45 - 8.50	Lighting of Traditional Oil Lamp
8.50 - 8.55	University Anthem
8.55 - 9.05	Welcome Address
	Dr. T.N. Wickramaarachchi
	Chairperson of the 14th Academic Sessions
	University of Ruhuna
9.05 - 9.15	Address by Dr. A.M.N. Alagiyawanna
	Deputy Vice Chancellor, University of Ruhuna
9.15 - 9.30	Address by the Chief Guest
	Snr. Prof. Gamini Senanayake
	Vice Chancellor, University of Ruhuna
9.30 - 10.00	Keynote Speech
	"Innovations & Sustainable Developments in Ancient Sri Lanka"
	Professor Munidasa P. Ranaweera
	Emeritus Professor of Civil Engineering
	Department of Civil Engineering
	Faculty of Engineering, University of Peradeniya
10.00 - 10.05	Cultural Item
10.05 - 10.35	Oration
	"Medicinal Plants in Sri Lanka: Ethnobotanical, Phytochemical
	and Pharmacological Investigations"
	Dr. Mayuri Tharanga Napagoda
	Department of Biochemistry
	Faculty of Medicine, University of Ruhuna
10.35 - 10.45	Best Presenter Awards, 13th Academic Sessions
10.45 - 11.05	13th Vice Chancellor's Awards
11.05 - 11.15	Award of Professor Emeritus
11.15 - 11.20	Vote of Thanks
	Dr. J.M.R.S. Appuhamy
	Secretary of the 14th Academic Sessions
	University of Ruhuna
11.20 - 11.25	National Anthem
11.25 - 11.45	Refreshments
11.45 - 12.30	Technical Sessions (Poster Presentations)
12.30 - 13.30	Lunch
13.30 - 15.45	Technical Sessions (Oral Presentations)
15.45 - 16.00	Refreshments

Technical Session 1 - Medicine and Allied Health Sciences (Oral)

Venue – Lecture Room 1 (LR1)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	ALS - 04	Exposure to Patient Related Violence Against Nursing Officers in Different Units, in Teaching Hospital Karapitiya SMRG Godawita, NHDP Fonseka and GD Punchihewa
13.45 - 14.00	ALS - 07	Formulation of Polyherbal Handwash with Potential Antibacterial Activity S K Hettihewa, WMDGB Wijayaratne and KRS Neelanayani
14.00 - 14.15	MED - 01	Synthesis of Silver Nanoparticles using Extracts of <i>Plectranthus zeylanicus</i> for Antimicrobial Applications WSG De Soyza, MT Napagoda, WMDGB Wijayaratne and S Witharana
14.15 - 14.30	MED - 03	Assessment of Bancroftian Filariasis Transmission by an IgG4 Enzyme- Linked Immunosorbent Assay with Urine Samples of Primary School Children in Jaffna and Trincomalee Districts of Sri Lanka MA Rahuman, TC Yahathugoda, P Premaratne, J Ruban, S Kannathasan, A Murugananthan, S Senanugake, H Takagi, M Itoh and MV Weenasooriya
14.30 - 14.45	MED - 05	Linguistic Validation of Sinhala Version of 12 item General Health Questionnaire (GHQ12) and Measurement of Psychological Distress of People with Chronic Lymphatic Filariasis (LF) in Southern Sri Lanka Janaka Ruben, TC Yahathugoda, Chandani Senadhera, Bilesha Perera and KG Somasiri
14.45 - 15.00	MED - 06	Effects of Six Months, High-Dose Parenteral Vitamin D Therapy on Cardiovascular Risk Scores and Lipid Profile in Patients with Diabetic Nephropathy; A Randomized Double-Blind Placebo Controlled Clinical Trial PLCC Liyanage, S Lekamousam, TP Weeranthna and C Liyanage
15.00 - 15.15	MED - 09	Evaluation of Photoprotective Potential in Sri Lankan Medicinal Plants for the Development of Herbal Sunscreens MT Napagoda, HKUP Samaranayake, MM Qader and L Jayasinghe
15.15 - 15.30	MED - 10	Food Restrictions and Choices in Childhood: Are Tradition and Culture More Influential than Health Education? CJ Wijesinghe, ILAN Darshana and ND Liyanaarchchi
15.30 - 15.45	MED - 12	Knowledge and Practices Towards an Endemic Disease with Serious Complications, among Adults in Sri Lanka NP Weenssinghe, A Nagalauxatte, WMDGB Wijerathme, RS Amanusuriya, U Kulasinghe, SS Wickramasinghe and HT Thabrevo

Technical Session 2 - Literature, Languages and Social Sciences (Oral)

Venue – New Lecture Hall 1 (NLH 1)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	HSS - 01	Human Security Challenges in Contemporary Sri Lankan Society: Study based on Newspapers Gayathri Wijesundara, MTK Premarathna and CPM Gunawardane
13.45 - 14.00	HSS - 02	The Impact of Error Analysis on Second Language Pedagogy W Wijesinghe
14.00 - 14.15	HSS - 03	පෙළඹවූ ගබ්සා සම්බන්ධයෙන් ශුී ලංකාවේ පවතින රාජ්ය පුතිපත්තිය කාන්තාවන් වෙත ඇති කරන බළපෑම පිළිබඳ අධ්‍යයනයක්: මාතර පුංදේශීය ලේකම් කොට්ටාශය ඇසුරින් එස් <i>ඵලංකුලුගේ සහ ටී.ඵල්.සී.එස්. කරුණානායක</i>
14.15 - 14.30	HSS - 04	1978 ආණ්ඩුනුම ව්යවස්ථාවේ 19 වන ව්යවස්ථා සංශෝධනය මගින් ස්ථාපිත කළ ස්වාධීන කොමිසම් සභා පිළිබඳ විශ්ලේෂණාත්මක අධ්යයනයක් <i>ඊ.ජී. විජේසිරි</i>
14.30 - 14.45	HSS - 05	ශ්රී ලංකාවේ අපතයන සැකසුම් කලාප තුළ ස්ති ශුමිකයින්ගේ වෘත්තිය ගැටළු (කොග්ගල වෙළඳ කලාපය ඇසුරින්) එස්.කේ. වලාකුලුගේ, යු.වී.ආර්.එස්. කුමාරි සහ ඒ.ආර්. දුලන්ජනී
14.45 - 15.00	HSS - 06	Political Party Identifications and Attitudes Towards Foreign Policy of Sri Lanka Nisanka Sanjeewani Ariyarathne
15.00 - 15.15	HSS - 07	Pearls in Historical Context: An Alternative Perspective on External Trade and Connectivity of Sri Lanka Wijerathne Bohingamuwa
15.15 - 15.30	MGT - 02	Determinants of Lower Level Adoption of Sri Lanka Public Sector Accounting Standards (SLPSAS) in Sri Lanka (with Special Reference to the Divisional Secretariats in Galle District) AG Deepal

Technical Session 3 - Agriculture and Environmental Sciences (Oral) **Venue** - Lecture Theatre 1 (LT 1)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	AG - 03	Effect of Corporate Social Responsibility (CSR) Strategies on Young Consumers' Purchase Behaviour after a Product Harm Crisis: A Case in Sri Lanka Ganganee Chandima Samanaweena
13.45 - 14.00	AG - 04	Effects of Organic Amendments and Subsequent Potential Water Repellent Conditions on Major Nutrient Dynamics in Soil TDP Liyanage and DAL Leelamanie
14.00 - 14.15	AG - 05	Surface Water Entry and Water Retention of Soil in Relation to Water Repellency in Ohiya Eucalyptus Forest HIGS Piyaruwan and DAL Leelamanie
14.15 - 14.30	AG - 08	Tomato Seed Germination Index for Determining Phytotoxicity in Municipal Solid Waste Compost in Sri Lanka: Effects of pH and EC ISU Rupasinghe and DAL Leelamanie
14.30 - 14.45	AG - 13	Colours of Artificial Light: Effect on Behaviour of Broilers in Tropical Environment D Senaratna, T S Samarakone and WWDA Gunawardena
14.45 - 15.00	FMST - 01	Impacts of Calcium on Brittlewort (Nitella pseudoflabellata) Exposed to Cesium Keerthi Sri Senarathna Atapaththu, Md Harun Rashid, Y Kaneko and Takashi Asaeda
15.00 - 15.15	FMST - 02	Impacts of Bats on Speleothems Formation in Wavulpane Cave WMYR Bandaranayake, PN Ranasinghe and HB Asanthi
15.15 - 15.30	SCI - 03	Effect of Initial Inoculum Densities of <i>Meloidogyne incognita</i> on Growth Performance and Root Infestation of Tomato <i>WTS Dammini Premachandra and HP Weeraratne</i>
15.30 - 15.45	SCI - 07	Petiolar Anatomy as a Diagnostic Character for Taxonomic Identification of Cinnamomum Species found in Sri Lanka Pushpa Damayanthi Abeysinghe and Tanya Scharaschkin

Technical Session 4 - Science and Mathematics (Oral)

Venue - New Lecture Hall 2 (NLH 2)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	AG - 14	Robust Method for Adding Samba Users as a Batch with Individual User Names and Passwords KKLB Adikaram, ACP Priyankara, MKDK Piyaratne, DT Andrahannadi and UI Samarawichrama
13.45 - 14.00	ENG - 02	A Neuroplasticity Approach in Artificial Neural Networks Mihirini Wagarachchi and Asoka Karunananda
14.00 - 14.15	ENG - 05	Optoelectronics Effects of Gold Nanoparticles in the Active Layer of Polymer Photovoltaic Devices Aruna Wanninayake and Nidal Abu Zahra
14.15 - 14.30	FMST - 03	Retrieval of Land and Water Surface Temperature using ASTER Data in Lake Magadi Area, Kenya Gayantha RL Kodikara
14.30 - 14.45	SCI - 01	The Existence of an Integral Solution of a Delayed Model of Age Structured Proliferating Cell Population with Inherited Cycle Length KCN Shanthidevi and HGN Lasitha Padmaprabha
14.45 - 15.00	SCI - 06	A Comparison of Some Statistical and Geometrical Properties of Power-law Distribution and a Particular Form of Exponential Distribution N Yapage
15.00 - 15.15	SCI - 09	Qualitative Properties and Hopf bifurcation Analysis of a Delayed SEIR Model with Logistic Growth and Relapse Effect B G Sampath Aruna Pradeep and MK Abeyratne

Technical Session 5 - Civil and Manufacturing Engineering (Oral)

Venue - Lecture Room 2 (LR2)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	ENG - 01	Investigation of Site Management Practices in Sri Lankan Construction Industry SN Malkanthi, MTC Premathilaka and TWCS Thalangama
13.45 - 14.00	ENG - 06	Analysis of Composition and Properties of Liquid and Gaseous Hydrocarbon Fuel Derived from Waste Plastics EP Rohan, NK Hettiarachchi and B Sumith
14.00 - 14.15	ENG - 12	Evaluation and Assessment of Most Suitable Low Cost and Environment Less Effective Landfill Pollution Control Systems for Dry Zone WAP Fernando, NH Priyankara, Y Inoue, AMN Alagiyawanna, K Kawamoto and KCN Dayanthi
14.15 - 14.30	ENG - 15	Landfill-Leachate Treatment in Up and Down Flow Anaerobic Filters with Combined Packing Media of Locally Available and Low-Cost Materials BSR Nanayakkara and WKCN Dayanthi
14.30 - 14.45	ENG - 16	Development of an Efficient Method of Predicting Remaining Strength Capacities of Corroded Reinforced Concrete Structures HVAN Sanjezwa, RMMC Rathmayake, MRM Ifham, MZS Ahamed and JMRS Appularny
14.45 - 15.00	ENG - 21	Field-Scale Permeable Reactive Barrier (PRB) System with Low-Cost Reactive Materials to Treat Ground Water Contaminated by Landfill-Leachate DM Kankanige, AM Disanayake, IU Nagasinghe, WKCN Dayanthi and WAP Asela
15.00 - 15.15	ENG - 23	Comparison of Lubricating Properties of Palm Oil and Palm Kernel Oil with Commercial Engine Oils TKKS Pathmasiri, SPND Karunarathna, GIP Perera and R Gallage

Technical Session 6 - Electrical, Mechanical and Information Engineering (Oral)

Venue - Lecture Theatre 2 (LT 2)

Time	Abstract ID	Title and Author/s
13.30 - 13.45	ENG - 07	Simulation Study of an Electronic Load Controller with a Novel Phase Balancing Configuration to Enhance the Efficacy of the Micro-Hydro Generator <i>RPS Chandrasena and HWHL Walpita</i>
13.45 - 14.00	ENG - 08	A Multi-Sensor Plantar Pressure Profiler AS Mudalige, KGRL De Silva, MPP Mithila, ND Jayasundere and TP Weerarathna
14.00 - 14.15	ENG - 09	Application of the Cell-Linked List Algorithm to Reduce Computational Time of Meshfree Based Plant Tissue Models KGP Hansani, Sumith Baduge and HCP Karunasena
14.15 - 14.30	ENG - 19	Integration of PEM Fuel Cell Stack with a Micro Grid in Non-Dispatchable Mode of Operation KMSY Konara
14.30 - 14.45	ENG - 20	Power Dispatching Controller Modelling for an Energy Storage with High SOC in a Micro Grid KMSY Konara
14.45 - 15.00	ENG - 22	Dynamic Modelling and Stability Analysis of a DC-DC Converter Connected with an Energy Storage KMSY Konara
15.00 - 15.15	ENG - 24	Applicability of 3D Imaging for Plant Irrigation Management Anura P Rathnayake, Carloz Zuniga, Lav R Khot, Pete Jacoby and Sindhuja Sankaran
15.15 - 15.30	ENG - 27	Use of Passive Cooling for Improved Energy Efficiency of Small Scale Conventional Air Conditioners MT Palliyaguru, WMPL Rathnayake, MIM Aseem, MT Ranjan and HCP Kanunasena
15.30 - 15.45	MGT - 01	Hybrid Intrusion Detection Approach with Improved Accuracy Samitha S Somathilaka, JADC Jayakody and DMKD Dissanayake

Technical Session 7 - Medical, Social and Environmental Sciences (Poster)

Venue – Drawing Office 1 A (DO 1A)

Time	Abstract ID	Title and Author/s
11.45 - 12.30	AG - 01	Assessment of Food Waste Generated in Student Canteen in Faculty of Agriculture, University of Ruhuna MGG Awanthi, CP Rupasinghe and RHK Rathmappriya
	ALS - 05	Knowledge, Attitudes and Practices Regarding Inhaler Usage among Mothers of Paediatric Asthma Patients in Teaching Hospital Karapitiya EAW Seuwandi, PN Kariyawasam and SP Hewawasam
	ENG - 11	Effect of Grade 5 Scholarship Exam and/or G.C.E. (O/L) Exam for State University Entrance in Sri Lanka WMKRTW Bandara, BMLA Basnayake, WATM Jayarathna, HMLP Senevirathna, TB Edirisovija, RAKL Rajapaksha, AMV Gunarathna, MMCM Mawela and WADT Ariyarathna
	LIB - 02	Usability Approach for Library Websites Evaluation: A Case Study in Library, University of Ruhuna KH Ramanayaka, Xianqiao Chen, Bing Shi, UA Lal and GAJ Hemmali
	MED - 02	Usage of Medicinal Plants as Anti-inflammatory Therapeutics among the Inhabitants of Polonnaruwa District- Sri Lanka: An Ethnobotanical Study MT Napagoda, SMTD Sundarapperuma, NHDP Fonseka, AMSS Amarasiri and KAPD Gumantina
	MED - 11	A Study on Serum Creatinine Measurement and eGFR Reporting Practices in Sri Lankan State Sector Hospital Laboratories ID Siriwardhana, EH Silva and BKTP Dayanath
	SCI - 08	Abundance of Fishes among Different Mangrove Densities KJMUP Jayathilaka, MP Kumara, LP Jayatissa, US Amarasinghe and Mark Huxham

Technical Session 8 - Science and Technology (Poster) **Venue** - Drawing Office 1 B (DO 1B)

Time	Abstract ID	Title and Author/s
11.45 - 12.30	AG - 11	Study the Morphological Variations between Polyploids and Diploids of Raphanussativus L. (Radish) Var. Beeralu IP Manawadu, PCD Perera and Dahanayake Nilanthi
	ENG - 03	Smart Monitoring and Distribution of Power in Distribution Grid DS De Silva, MA Mufthi, R Kiruthiga and MRM Zainul Haq
	ENG - 04	Comparison of Phosphorus Removal Efficiency of Selected Aquatic Macrophytes in Mixed Culture H Kodithuwakku and KC Ellawala
	ENG - 13	Spatial Variation of Ground Water Quality in Southern Province, Sri Lanka GG Tushara Chaminda, BMJK Balasooriya, Champika Ellawala and Tomonori Kawakami
	ENG - 25	Investigation of a Solar Loop Heat Pipe Water Heating System Sumith Baduge and MT Tenis Ranjan
	ENG - 26	A Non-Electric Regenerative Braking System for Passenger Buses RMSP Karunarathne, M Aravithan, PWGSD Pussewaththa and HCP Karunasena
	FMST - 04	Softening and Defluoridation of Domestic Drinking Water Using Seeds Extracts of Moringa Oleifera and Strychnos potatorum MN Saranathilake and RA Maithreepala