



# **Sri Lanka Association for the Advancement of Science GLANCE PROGRAMME – 72<sup>nd</sup> Annual Sessions**

*Theme: “Interdisciplinarity in Research, Education and Practice  
for Advancing Science and Society”*

## **Host Institution - University of Colombo**

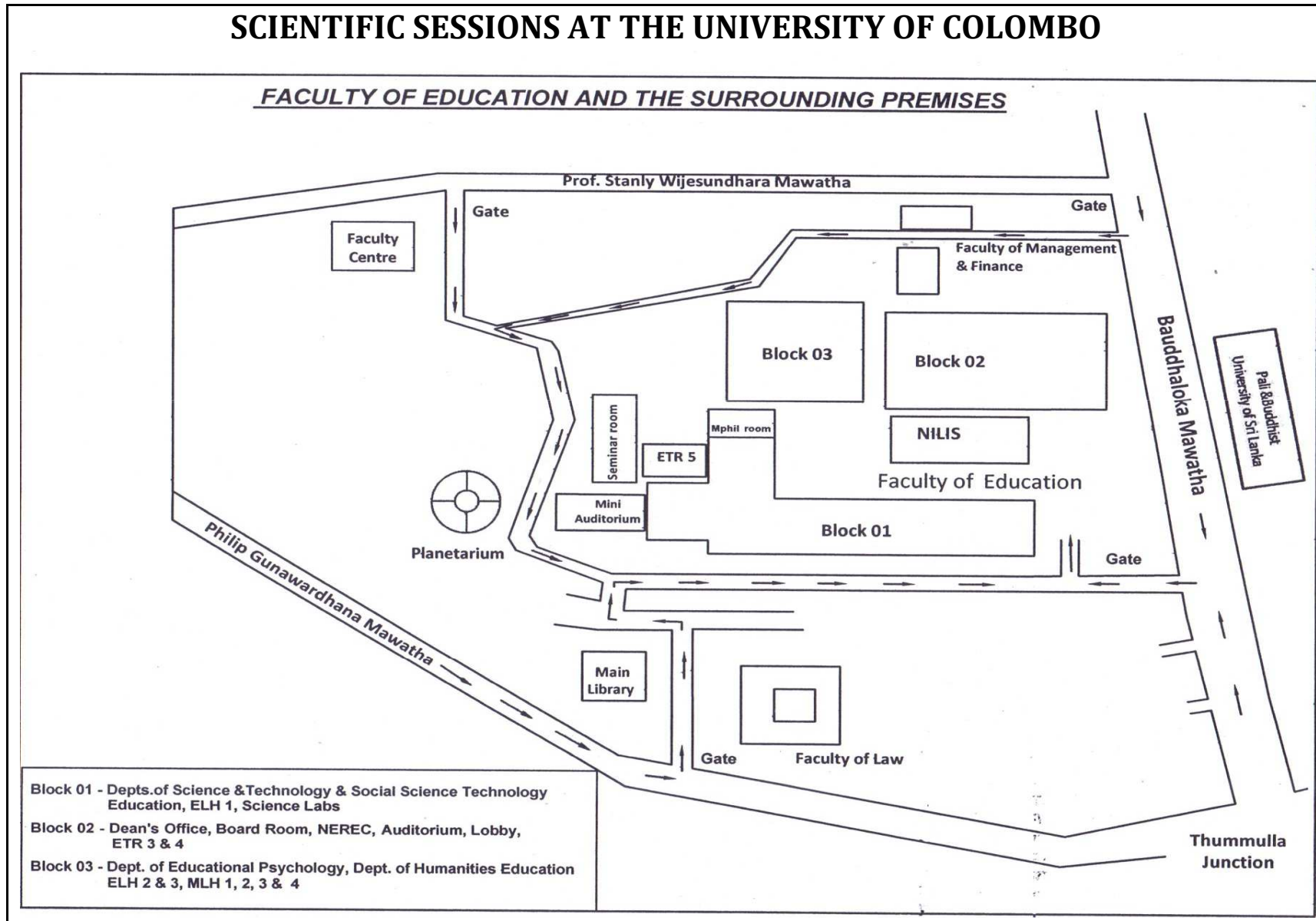
<b>Ceremonial Inauguration</b>	<b>5<sup>th</sup> December 2016</b>	<b>Committee Room A, BMICH</b>
<b>Theme Seminar</b>	<b>6<sup>th</sup> December 2016</b>	<b>Auditorium, ICTAD (Sausiripaya)</b>
<b>Scientific Sessions</b>	<b>7<sup>th</sup>- 9<sup>th</sup> December 2016</b>	<b>Faculty of Education, University of Colombo</b>
<b>School Inventors' Exhibition</b>	<b>7<sup>th</sup>- 8<sup>th</sup> December 2016</b>	<b>Faculty of Education, University of Colombo</b>
<b>Innovations Exhibition &amp; Mini Symposium</b>	<b>7<sup>th</sup>- 8<sup>th</sup> December 2016</b>	<b>Faculty of Education, University of Colombo</b>
<b>Night Sky Observation Camp</b>	<b>8<sup>th</sup> December 2016</b>	<b>University Playground, University of Colombo</b>
<b>Annual General Meeting</b>	<b>9<sup>th</sup> December 2016 at 11.15 a.m.</b>	<b>Faculty of Education, Education Lecture Hall (ELH 3), Block 3, University of Colombo</b>

(Visit [www.slaas.lk](http://www.slaas.lk) for online information about the 72<sup>nd</sup> Annual Sessions and latest updates)

**Co-organizer :**



## SCIENTIFIC SESSIONS AT THE UNIVERSITY OF COLOMBO



**SLAAS - Theme Seminar  
“Interdisciplinarity in Research, Education and Practice for  
Advancing Science and Society”**

**6<sup>th</sup> December 2016**

**8.00 a.m. to 3.30 p.m.**

**Venue: Auditorium of the ICTAD, Sausiripaya  
Wijerama Mawatha, Colombo 07**

Registration for Members

Early Bird Registration Fee: Rs. 2,500/- (on or before 21<sup>st</sup> Nov. 2016)

Late Registration Fee: Rs. 3,000/- (after 21<sup>st</sup> Nov. 2016)

Registration for Non-Members

Early Bird Registration Fee: Rs. 3,000/- (on or before 21<sup>st</sup> Nov. 2016)

Late Registration Fee: Rs. 3,500/- (after 21<sup>st</sup> Nov. 2016)

Students (Undergraduates / Postgraduates)

Maximum 50 seats available (first come first serve basis)

Early Bird Registration Fee: Rs. 1,000/- (on or before 21<sup>st</sup> Nov. 2016)

Late Registration Fee: Rs. 1,500/- (after 21<sup>st</sup> Nov. 2016)

**To register please contact:**

**Administrative Officer**

**Sri Lanka Association for the Advancement of Science (SLAAS)**

**‘Vidya Mandiraya’**

**120/10, Wijerama Mawatha, Colombo 7.**

**Phone: (011) 2688740 / 2691681**

**Visit [www.slaas.lk](http://www.slaas.lk) for latest updates and programme details**

**SLAAS - Theme Seminar 2016  
“Interdisciplinarity in Research, Education and Practice for  
Advancing Science and Society”**

**Date: 6<sup>th</sup> December 2016**

**Venue: Auditorium of the ICTAD, Sausiripaya, Wijerama Mawatha, Colombo 7**

**Programme**

<b>8.00 – 8.40 am</b>	<b>Registration</b>
<b>8.40 -8.50 am</b>	<b>Traditional lighting of the oil lamp</b>
<b>8.50 – 9.00 am</b>	<b>Welcome Address by Prof. Manjula Vithanapathirana</b>
<b>9.00 – 9.40 am</b>	<b>“Interdisciplinary Research across Life Sciences and Social Sciences: The Whys, Hows, Highs and Lows of Collaboration” by Prof. Felicity Callard</b>
<b>9.40 – 10.20 am</b>	<b>“Advancing Science and Society through Interdisciplinarity: The Role of Systems Science” by Prof. Saroj Jayasinghe</b>
<b>10.20 – 10.30 am</b>	<b>Discussion</b>
<b>10.30 – 10.50 am</b>	<b>Tea</b>
<b>10.50 - 11.30 am</b>	<b>“Interdisciplinary Journeys: A Few Illustrations from History of Ideas” by Prof. Moti Nissani</b>
<b>11.30 – 12.10pm</b>	<b>“Researcher: Establish or Perish! – An Imperative for Advancing our Society” by Prof. Ajith de Alwis</b>
<b>12.10 – 12.20 pm</b>	<b>Discussion</b>
<b>12.20 – 1.10 pm</b>	<b>Lunch</b>
<b>1.10 – 1.50 pm</b>	<b>“The Need for Interdisciplinary Approaches in Health Research” by Prof. K Tudor Silva</b>
<b>1.50 – 2.30 pm</b>	<b>“From Crossdisciplinarity to Interdisciplinarity: Some Experiences from Trying to Bridge the Chasm between Computing and Two Other Disciplines” by Dr. Ruwan Weerasinghe</b>
<b>2.30 – 3.10 pm</b>	<b>“Interdisciplinary Procedures: Histories, Anxieties and Profits – Lessons From English Studies” by Prof. Neloufer de Mel</b>
<b>3.10 – 3.20 pm</b>	<b>Discussion</b>
<b>3.20 pm</b>	<b>Tea</b>
	<b>End of Program</b>

**PRESIDENTIAL ADDRESSES**  
**Venue: Faculty of Education, University of Colombo**

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<b>Section A :</b> <i>9<sup>th</sup> December 2016 @10.15 a.m.</i>	<b>Evolution of Dentistry to Art &amp; Science of Dentofacial Aesthetics</b> <b><i>Dr Suresh Shanmuganathan</i></b>
<b>Section B :</b> <i>8<sup>th</sup> December 2016 @3.30 p.m.</i>	<b>Possibilities of Safe Agriculture in Sri Lanka</b> <b><i>Dr Buddika Aruggoda</i></b>
<b>Section C :</b> <i>8<sup>th</sup> December 2016 @10.30 a.m.</i>	<b>Issues of Present and Past Bridge Constructions in Sri Lanka</b> <b><i>Dr Kamal Karunananda</i></b>
<b>Section D :</b> <i>7<sup>th</sup> December 2016 @ 3.45 p.m.</i>	<b>Exploring Marine Biodiversity Values through Genomic Approaches</b> <b><i>Dr Hemali Munasinghe</i></b>
<b>Section E1 :</b> <i>9<sup>th</sup> December 2016 @1.15 p.m.</i>	<b>Conceptual Burdens for Mathematics to be Interdisciplinary</b> <b><i>Dr Naleen Ganegoda</i></b>
<b>Section E2 :</b> <i>7<sup>th</sup> December 2016 @11.00 a.m.</i>	<b>Engineered Nanomaterials from Mineral Resources: Applications in Industry &amp; Environment</b> <b><i>Dr W A P J Premarathne</i></b>
<b>Section E3 :</b> <i>8<sup>th</sup> December 2016 @11.30 a.m.</i>	<b>Role of ICT in Multidisciplinary Approach for Sustainable Development</b> <b><i>Dr G Wijayarathna</i></b>
<b>Section F :</b> <i>9<sup>th</sup> December 2016 @ 8.45a.m.</i>	<b>Ensuring Irrigation Water Use Rights under the Market Driven Economy</b> <b><i>Dr M G Kularatne</i></b>

## SCIENTIFIC SESSIONS AT THE FACULTY OF EDUCATION UNIVERSITY OF COLOMBO

### Oral Presentations

Section A	Auditorium
Section B	MLH 1
Section C	ETR 3 & ETR 4
Section D	MLH 2
Section E1	MLH 3
Section E2	MLH 4
Section E3	Mini Auditorium
Section F	NILIS

### Other Venues

SLAAS Office	Dean's Office, Faculty of Education, University of Colombo
Members' Lounge	Faculty Centre
Business Meetings	Sectional Venues
Presidential Addresses	Education Lecture Hall (ELH 3), Block 3, Faculty of Education
AGM	Education Lecture Hall (ELH 3), Block 3, Faculty of Education
Tea & Refreshments	Block 2 Lobby
Council Meeting	Board Room, Faculty of Education

### Exhibitions

School Inventors' Exhibition	ELH 1, ETR 5, Seminar Room & Science Labs, Faculty of Education
Exhibition on Innovations	ELH 2, Faculty of Education

## SYMPOSIA, POPULAR LECTURES, PANEL DISCUSSIONS AND OTHER EVENTS

<p style="text-align: center;"><b>Popular Lecture</b>  <b>"7.4 Billion Cheers for Real Democracy"</b>  <b>Prof. Emeritus Moti Nissani, Wayne State</b>  <b>University, USA, 8<sup>th</sup> December 2016</b>  <b>4.30 p.m - 5.30 p.m ELH 3, Block 3,</b>  <b>Faculty of Education</b></p>	<p style="text-align: center;"><b>Planetarium Show</b>  <b>Conducted by</b>  <b>Prof. Chandana Jayarathna</b>  <b>7<sup>th</sup> December 2016</b>  <b>12.00 noon - 1.30 p.m</b>  <b>at the Sri Lanka Planetarium</b></p>	<p style="text-align: center;"><b>Section A Symposium</b>  <b>"Healthy Food - With</b>  <b>Emphasis on Food</b>  <b>Production, Fertilizer Usage,</b>  <b>Transporation and Storage"</b>  <b>8<sup>th</sup> December 2016</b>  <b>1.15 p.m - 2.15 p.m, ELH 3,</b>  <b>Faculty of Education</b></p>	<p style="text-align: center;"><b>Section E3 Panel Discussion</b>  <b>"Big Data for Development in</b>  <b>Sri Lanka"</b>  <b>9<sup>th</sup> December 2016</b>  <b>2.15 p.m - 3.15 p.m</b>  <b>Auditorium, Faculty of</b>  <b>Education</b></p>
<p style="text-align: center;"><b>Poster Presentations</b>  <b>7<sup>th</sup> - 9<sup>th</sup> December 2016 at</b>  <b>Block 3 Lobby, Faculty of Education</b></p>	<p style="text-align: center;"><b>Mini Symposium Innovations</b>  <b>7<sup>th</sup> December 2016</b>  <b>1.15p.m -3.15p.m at</b>  <b>ELH 3, Faculty of Education</b></p>	<p style="text-align: center;"><b>Section F Panel Discussion</b>  <b>"Free Education; Myth or</b>  <b>Reality"</b>  <b>8<sup>th</sup> December 2016</b>  <b>8.30 a.m -10.00 a.m</b>  <b>NILIS, Faculty of Education</b></p>	<p style="text-align: center;"><b>Night Sky Observation Camp</b>  <b>by Astronomy &amp; Space</b>  <b>Science Unit of</b>  <b>University of Colombo</b>  <b>8<sup>th</sup> December 2016</b>  <b>8.00 p.m</b>  <b>University Playground</b></p>

### Annual Dinner

**Venue: " Nelum," Waters Edge, Battaramulla**

***Wednesday 7<sup>th</sup> December 2016***

***7.30 p.m onwards***

***A limited number of tickets (Rs. 3000/-) available at SLAAS office***

**(Contact: 0112-688740/0718334488)**

07 <sup>th</sup> December 2016 (Wednesday)					Page 7
Time	Section A	Section B	Section C	Section C	Section D
8.00 a.m.			<b><u>301/C</u></b> Groundwater management in sand dune areas of Kayts Island with the aid of lateral  <i>S Shanmuhanthan</i>	<b><u>314/C</u></b> Online Mentoring and mapping of waterquality of wells in rural areas of Sri Lanka  <i>S A D N Disanayake, D S K U Wijesinghe, H pasqual, B C L Athapattu</i>	
8.15 a.m.			<b><u>302/C</u></b> Defining sustainable limits to surface water storage development in river basins  <i>L Udamulla, N Eriyagama, V Smakhtin</i>	<b><u>315/C</u></b> Design of a wireless sensor network for rice store monitoring  <i>D N Balasuriya</i>	<b><u>400/D</u></b> Record of mid holocene sea level highstands from Sourthern and Northen Sri Lanka <i>T. Ambillapitiya, P.N. Ranasinghe, C. Amarasinghe, Y.A. Jayaratne, W.K.B.N. Prame</i>
8.30 a.m.	<b><u>101/A</u></b> Acute toxicity and diuretic study of hot water extract of <i>Tragia</i> spp. in rats  <i>M S Pallie, P K Perera, C L Goonasekera, K M N Kumarasinghe, L D A M Arawwawala</i>	<b><u>201/B</u></b> Changes in chemical and sensory properties of deep fried food due to repeatedly used coconut oil  <i>L L W C Yalegama, A J N Gimasha, K D P P Gunathilake, H A E Samaranayake</i>	<b><u>303/C</u></b> Pollutant load assessment of Kalu Ela sub basin of Kelani River lower reach  <i>B C L Athapattu, H M S S Sandarekha, P A K Sameera, G L Jayathunga, G A A U Perera</i>	<b><u>316/C</u></b> Voice controlled home automation system for disabled people  <i>H Pasqual, D S K U Wijesinghe</i>	<b><u>401/D</u></b> The mature leaf concentrate of Sri Lankan wild type <i>Carica papaya</i> L. attenuates carrageenan induced acute inflammation via inhibiting prostaglandin E-2  <i>C Jayasinghe, W D Ratnasooriya, P V Udagama</i>

Time	Section E1	Section E2	Section E3	Section F
8.00 a.m.				
8.15 a.m.		<b><u>601/E2</u></b> FTIR spectroscopic analysis and antioxidant activities of crude polysaccharides from Sri Lankan marine algae  <i>Kalpa W Samarakoon, I P Shanura Fernando, U K D S S Gunasekara, Pathmasiri Ransinghe, G A S Premakumara, Lakmal Jayrathne, R C L de Silva, You Jin-Jeon</i>		
8.30 a.m.	<b><u>501/E1</u></b>  A study on equiprobability of outcomes of two lotteries in Sri Lanka  <i>B M S G Banneheka, K D Wijesinghe</i>	<b><u>602/E2</u></b>  Antioxidant activity, proximate analysis and metal ion analysis of some selected Sri Lankan marine algae  <i>G A Batugedara, Kalpa W Samarakoon, U K D S S Gunasekara, Pathmasiri Ransinghe</i>	<b><u>701/E3</u></b>  An android based live tour guide for Sri Lanka  <i>Anjali D de Silva, Sidath R Liyanage</i>	<b><u>801/F</u></b>  Introduction of CLIL activities for the secondary bilingual science teachers as supportive measure  <i>N A L A Nettikumara</i>



07 <sup>th</sup> December 2016 (Wednesday) Ctd..					Page 9
Time	Section A	Section B	Section C	Section C	Section D
8.45 a.m.	<b><u>102/A</u></b> Comparison of the diagnosis of suspected cutaneous leishmaniasis (CL) lesions with rapid diagnostic test and slit skin smear (SSS).  <i>L D G G De Silva, V Somaratne, S Senaratne, M Vipuladasa, S Ranasinghe, R Wickremasinghe</i>	<b><u>202/B</u></b> Estimation of embedded energy of vegetables from farm to the Dambulla Economic Center  <i>C V L Jayasinghe, V P N Prasadi, D M C M K Dasanayaka</i>	<b><u>304/C</u></b> Diyawannawa canal network for passenger boat service case study on Kirulapana Canal  <i>, B C L Athapattu, G L E P perera, G C R Dayarathna, H K M Perera, G A A U perera, M Vithanage</i>	<b><u>317/C</u></b> A domain specific visual programming language for designing embedded systems  <i>C Janaka Basnayakege, C W S Goonetilleke</i>	<b><u>402/D</u></b> Glycemic regulatory properties of fenugreek seed ( <i>Trigonella foenum-graecum</i> extracts used in Sri Lankan ethnomedicine <i>U P T C Abayarathna, W K S M Abeysekera, M C H Jayasooriya, G A S Premakumara</i>
9.00 a.m.	<b><u>103/A</u></b> The effectiveness of active malaria surveillance amongst in-ward patients in the phase of prevention of re-introduction of malaria to Sri Lanka  <i>P Dharmawardena, R G Premaratne, A R Wickramesinghe, K N Mendis, H Arunagirinathan, S D Fernando</i>	<b><u>203/B</u></b> Issues in food handling practices and hygienic conditions of restaurants located in the area of Colombo Municipal Council, Sri Lanka  <i>M Dheerasinghe, J M J K Jayasinghe</i>	<b><u>305/C</u></b> A comparative eco-hydrologic study of perennial and non-perennial streams of a headwater catchment  <i>P I A Gomes, G K Dehini, W D G B Weerasinghe</i>	<b><u>318/C</u></b> Modeling of gravity anomalies over a sedimentary basin having intruded horizontal igneous layer  <i>P Y A G S Yapa, D A Tantrigoda</i>	<b><u>403/D</u></b> Evaluation of larvicidal activity of leaf extract of <i>Citrus aurantifolia</i> (Lime) against house fly, <i>Musca domestica</i> L. ( <i>Diptera: muscidae</i> )  <i>R Nithiyagowry</i>
9.15 a.m.	<b><u>104/A</u></b> Receptivity for malaria transmission in a highly vulnerable district: A potential challenge for prevention of reintroduction efforts in Sri Lanka  <i>H M Hewavitharane, M D J S Saparamadu, R G Premaratne, G R Ranawaka, H T R Jayasooriya</i>	<b><u>204/B</u></b> Antioxidant capacity and bioactive compounds of selected herbal tea  <i>D C Abeysinghe, M V H L Perera, R M Dharmadasa</i>	<b><u>306/C</u></b> Reuse of reverse osmosis concentrate for burnt clay bricks production  <i>B C L Athapattu, U L S Yasaratne, T W L R Thalgaspitiya, M Vithanage</i>	<b><u>319/C</u></b> Statistical quality control approach based on double sampling method  <i>S Jayawardena, D Kuruppuarachchi, S A Weerasinghe</i>	<b><u>404/D</u></b> Fluvial export of limiting nutrient fluxes to the Indian Ocean from selected rivers in the wet zone Sri Lanka  <i>D A N Silva, P Vlahos, P N Ranasinghe</i>

Time	Section E1	Section E2	Section E3	Section F
8.45 a.m.	<b><u>502/E1</u></b> Measurements of normal incidence acoustic absorption coefficients and estimation of flow resistivity in polyurethane foams  <i>K W Nelka Surandi Samaranayake, Ramal V Coorey</i>	<b><u>603/E2</u></b> Characterization of two heavy metal removal <i>Bacillus</i> strains to Sri Lanka of species level  <i>W M N H Kumari, C D Wijayarathna, N V Chandrasekharan</i>	<b><u>702/E3</u></b> Smart medi wallet  <i>Nadeera G S Meedin, Niroshani Wijesooriya</i>	<b><u>802/F</u></b> Impact of workplace stress on job performance: science graduates in selected semi government scientific organizations in Sri Lanka  <i>P H D S Silva</i>
9.00 a.m.	<b><u>503/E1</u></b> Study of the relationship between solar activity and terrestrial weather using artificial neural networks  <i>D A Wickramasuriya, K P S Chandana Jayaratne</i>	<b><u>604/E2</u></b> Lupeol acetate as a prodrug in wound healing  <i>Nisansala S Bopage, K Hector Jayawardena, S Chandrani Wijeyaratne, A M Abeysekera, G M Kamal B Gunaherath</i>	<b><u>703/E3</u></b> “Off -Optimizer” - optimal quotation planning for offset printing industry  <i>Menaka Ranasinghe, Sanath Kausalya</i>	
9.15 a.m.	<b><u>504/E1</u></b> Origin of life on earth: Some new concepts on the probability theory  <i>D Munaweera</i>	<b><u>605/E2</u></b> Amylase production by <i>A. niger</i> under solid state fermentation using passion fruit peel as the carbon source  <i>S K Lakmini, M K B Weerasooriya</i>	<b><u>704/E3</u></b> Effectiveness of digital poetry  <i>Mandulee Mendis</i>	

07<sup>th</sup> December 2016 (Wednesday) Ctd..

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Time	Section A	Section B	Section C	Section D
9.30 a.m.	<i>Tea</i>			
10.00 a.m.	<b>Sectional Business Meetings</b>			
11.00 a.m.	<b>Presidential Address - Section E2</b> <b>Engineered Nanomaterials from Mineral Resources: Applications in Industry &amp; Environment</b>			
12.00 noon	<i>Lunch</i>			
12.45 p.m.	<b>Poster Session/School Inventors' Exhibition</b>			
1.15 p.m.	<b>Mini Symposium on Innovations</b>			
3.15 p.m.	<i>Tea</i>			
3.45 p.m.	<b>Presidential Address - Section D</b> <b>Exploring Marine Biodiversity Values Through Genomic Approaches</b>			

Time	Section E1	Section E2	Section E3	Section F
9.30 a.m.	<i>Tea</i>			
10.00 a.m.	<b>Sectional Business Meetings</b>			
11.00 a.m.	<b>Presidential Address - Section E2</b> <b>Engineered Nanomaterials from Mineral Resources: Applications in Industry &amp; Environment</b>			
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12.45p.m.	<b>Poster Session/School Inventors' Exhibition</b>			
1.15 p.m.	<b>Mini Symposium on Innovations</b>			
3.15 p.m.	<i>Tea</i>			
3.45 p.m.	<b>Presidential Address - Section D</b> <b>Exploring Marine Biodiversity Values through Genomic Approaches</b>			

08<sup>th</sup> December 2016 (Thursday) Ctd..

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Time	Section A	Section B	Section C	Section D
8.00 a.m.				
8.15 a.m.			<b><u>307/C</u></b> Optimization of industrial building with shell type building  <i>D I Fernando, H M G C Herath, R J M Perera</i>	<b><u>405/D</u></b> Extraction and quantification of Vitamin A from liver and skin of selected reef fish species  <i>N A N N Nethimna, P R T Cumaratunga</i>
8.30 a.m.	<b><u>105/A</u></b> Monitoring the prevalence of <i>Aedes aegypti</i> (L) and <i>Aedes albopictus</i> (Skuse) in Colombo city using BioGent- Sentinel (BG-S) traps and Ovi traps  <i>J Harishchandra, W Abeyewickreme, M D Hapugoda, RG Premaratne</i>	<b><u>205/B</u></b> prey preference of coccinella transversalis Fabricius ( Coleoptera:coccinellidae) on three aphid species  <i>H M N M Watagodakumbura,</i>	<b><u>308/C</u></b> Research on metal fatigue – the university of peradeniya; The state of the art  <i>Chaminda S Bandara, P B R Dissanayake</i>	<b><u>406/D</u></b> Cloning and expression of 1,4-β-D Glucosidase, endo-β gluconase (EGLI) and cellobiohydrolase (CBHI) genes of <i>Trichoderma</i> in yeast for the second generation bio-ethanol production from ligno-cellulosic biomass.  <i>G H I M Wickramasinghe, N V Chandarasekharan, R L C Wijesundera, M N A Mohamed, M D N T Perera, W S S Wijesundara</i>
8.45 a.m.	<b><u>106/A</u></b> <i>Phyllanthus debilis</i> Klein ex willd root extract induces apoptosis mediated cell death in cultured RD cells  <i>D Perera, P Soysa, S Wijerathne</i>	<b><u>206/B</u></b> Screening of Phytochemicals distribution and bioactivity of different parts and Leaf Positions of <i>Pimenta dioica</i> (L.) Merr (Myrtaceae)  <i>R M Dharmadasa, D C Abeysinghe, P B C Panawala</i>	<b><u>309/C</u></b> Real Strength of in-plane restrained slabs using compressive membrane action theory  <i>G Tharmarajah</i>	<b><u>407/D</u></b> Molecular identifiical of Root-knot nematodes <i>Meloidogyne arenaria</i> on tomato in Sri Lanka  <i>R V D U P Rajapakse, G H C M Hettiarachchi, R S Dassanayake</i>

Time	Section E1	Section E2	Section E3	Section F
8.00 a.m.				
8.15 a.m.		<u><b>606/E2</b></u> Selection of an efficient n-hexadecane degrading fungal-bacterial community  <i>S M D Perera, S D M Chinthaka, G Seneviratne, W S S Wijesundera, C D Wijayarathna, S M T Jayasena</i>		
8.30 a.m.		<u><b>607/E2</b></u> Investigation of the quality of coconut oil available at retail and wholesale shops in the coconut triangle  <i>H A E Samaranayake, L L W C Yalegama</i>	<u><b>705/E3</b></u> A study of the inter-compatibilities between user stories and epics in the agile methodologies and use case models  <i>R S Madanayake, G K A Dias, N D Kodikara</i>	<b>Section F Panel Discussion</b> <b>"Free Education; Myth or Reality" 8<sup>th</sup> December 2016</b> <b>8.30 a.m -10.00 a.m</b> <b>NILIS, Faculty of Education</b>
8.45 a.m.		<u><b>608/E2</b></u> A computational study for the Identification of lead compounds from Sri Lankan flora to treat selected neurodegenerative diseases  <i>Shalini Thiruchittampalam, Samantha Weerasinghe</i>	<u><b>706/E3</b></u> Uniform, multi-landscape, technology-independence and interoperability in the HL7 development paradigm  <i>M I Sabar, P M Jayaweera, E A T A Edirisuriya</i>	

08<sup>th</sup> December 2016 (Thursday) Ctd...

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Time	Section A	Section B	Section C	Section D
9.00 a.m.	<b><u>107/A</u></b> Modeling and <i>in silico</i> analysis of the impact of eight missense mutations on human growth hormone activity using a novel approach  <i>S R Samarasinghe, K H Tennekoon, J R Valverde</i>	<b><u>207/B</u></b> Evaluation of Insecticidal activity of Sri Lankan <i>Bacillus thuringiensis kurstaki</i> against <i>Plutella xylostella</i> and <i>Cnaphalocrocis medinalis</i>  <i>R Samarasekara, R Y Baragamarachchi, N M K Karunaratnan, O V D S J Weerasena, K M D W P Nishantha, M A R A Madanayake</i>	<b><u>310/C</u></b> Developing a double drill machine to enhance the accuracy of drilling process in brush manufacturing.  <i>T S S Jathunarachchi, N S Mallawaarachchi, K E D Sumanasiri</i>	<b><u>408/D</u></b> Development of recombinant <i>Pichi stipitis</i> harbouring endoxylanase (EXN) and endo- $\beta$ gluocanase (XYL) of filamentous fungi for degradation of hemicellulose  <i>G H I M Wickramasinghe, N V Chandarasekharan, R L C Wijesundera, M N A Mohamed, M D N T Perera, W S S Wijesundara</i>
9.15 a.m.	<b><u>108/A</u></b> Seasonal pattern and risk factors of human otocariasis in Kandy district, Sri Lanka  <i>K O Bandaranayaka, R P V J Rajapakse, S A M Kularatne, R S Rajakaruna</i>	<b><u>208/B</u></b> Impact of disease and pond management options in shrimp farms during heavy rains and floods  <i>A L S E Corea, R D G R Jayawickrama, V Pahalawattaarachchi</i>	<b><u>311/C</u></b> A Study of a fingertip imitating robot manipulator D C Wijewardene  <i>N T Medagedara, P D S H Gunawardane, B G D A Madhusanka</i>	<b><u>409/D</u></b> Screening for anti leishmania antibodies for visceral leishmaniasis and the presence of <i>Leishman Donovan</i> (LD) bodies in buffy coat films in patients in the renal unit teaching hospital Anuradhapura  <i>W M C W Menike, R T Dasanayake, R Wickremasinghe, I S Wijesiriwardene, I De Alwis, P H K I S Ranasinghe</i>
9.30 a.m.		<b><u>209/B</u></b> Physical and chemical properties of scavenger fish ( <i>Pterygoplichthys sp</i> ) skin gelatine  <i>C V L Jayasinghe, S H F Husna</i>	<b><u>312/C</u></b> Use of Bio-diesel as a soot inhibitor in diesel engines  <i>S Rasika Perera</i>	<b><u>410/D</u></b> Ants and scuttle flies as potential biological control agents of spinose ear tick <i>Otobius megnini</i>  <i>G C P Dyes, N B Karunaratna, W A I P Karunaratne, T H S E Silva, R S Rajakaruna</i>
9.45 a.m.		<b><u>210/B</u></b> Screening of different parts and leaf positions of <i>Stevia rebaudiana</i> (Bertoni) by means of Phytochemicals and Bioactivity <i>R M Dharmadasa, K L N W Kumari, D C Abeysinghe</i>	<b><u>313/C</u></b> A Study on pictorial Expression of Kandyan school art style: Gangaramaya temple Murals, Kandy <i>Dilini S Wijerathne</i>	<b><u>411/D</u></b> Life cycle of <i>Haemaphysalis bispinosa</i> , Neumann, 1897 under laboratory conditions  <i>G C P Dyes, R S Rajakaruna</i>

Time	Section E1	Section E2	Section E3	Section F
9.00 a.m.		<b>609/E2</b> Electrocatalytic activity of nanocubic and microcrystalline Cu <sub>2</sub> O electrodes for glucose oxidation  <i>J L K Jayasingha, K M D C Jayathilaka, M N Kaumal, D P Dissanayake, J K D S Jayanetti</i>		<b>Section F Panel Discussion</b> <b>"Free Education; Myth or Reality" 8<sup>th</sup> December 2016</b> <b>8.30 a.m -10.00 a.m</b> <b>NILIS, Faculty of Education</b>
9.15 a.m.		<b>610/E2</b> Natural rubber/ scrap rubber and 4-tert-butylstyrene/isodecyl acrylate semi-IPN systems as novel oil absorbents <i>G D N J Hettiarachchi, A M Jayasinghe, T D Kuruwita-Mudiyanselage</i>		
9.30 a.m.		<b>611/E2</b> Sorption behavior of fluoride ions on Fe-Mg-Ce tri-metal composite  <i>S K T Thathsara, A T Cooray, D R Ratnaweera,</i>		
9.45 a.m.		<b>612/E2</b> The effect of emulsifiers on stability of an ice cream and identify the best emulsifier & stabilizer blend T D Kuruwita Mudiyanselage R A U J Marapana, Don Mahil Kalhan Nanayakkara Rathnayake		



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Time	Section A	Section B	Section C	Section D	Section E1	Section E2	Section E3	Section F
10.00 a.m.	<i>Tea</i>							
10.30 a.m.	<b>Presidential Address - Section C</b> <b>Issues of Present and Past Bridge Constructions in Sri Lanka</b>							
11.30 a.m.	<b>Presidential Address - Section E3</b> <b>Role of ICT in Multidisciplinary Approach for Sustainable Development</b>							
12.30 p.m.	<i>Lunch</i>							
1.15 p.m.	<b>Symposium - Section A</b> <b>"Healthy Food - with Emphasis to Food Production, Fertilizer Usage, Transporation and Storage"</b>							
2.15 p.m.	<b>Awards Ceremony of Young Inventor's Exhibition</b>							
3.00 p.m	<i>Tea</i>							
3.30 p.m	<b>Presidential Address - Section B</b> <b>Possibilities of Safe Agriculture in Sri Lanka</b>							
4.30 p.m.	<b>Popular Lecture</b> <b>"7.4 Billion Cheers for Real Democracy" by Professor Emeritus Moti Nissani</b>							
5.30 p.m.	<b>Council Meeting</b>							

Time	Section A	Section B	Section C	Section D	Section E1	Section E2	Section E3	Section F
8.45 a.m.	<b>Presidential Address - Section F</b> <b>Ensuring Irrigation Water Use Rights under the Market Driven Economy</b>							
9.45 a.m.	<i>Tea</i>							
10.15 a.m	<b>Presidential Address - Section A</b> <b>Evolution of Dentistry to Art &amp; Science of Dentofacial Aesthetics</b>							
11.15 a.m	<b>Annual General Meeting</b>							
12.45 p.m	<i>Lunch</i>							
1.15 p.m.	<b>Presidential Address - Section E1</b> <b>Conceptual Burdens for Mathematics to be Interdisciplinary</b>							
2.15 p.m.	<b>Panel Discussion - Section E3</b> <b>Big Data for Development in Sri Lanka</b>							
3.15 p.m.	<i>Tea</i>							

## Poster Presentations

## Section A

901/A	Entomological and sociological risk factors affecting transmission of dengue in the District of Gampaha, Sri Lanka	G P W K Withanage, W Abeyewickreme, M D Hapugoda
902/A	Knowledge, attitudes and practices (KAPs) based risk factors for dengue in the Gampola Medical Officer of Health (MOH) area, District of Kandy	N W B A L Udayanga, P A D H N Hunathilaka, M C M Iqbal, P H D Kusumawathie, M M M Najim, U S Amarasinghe, W Abeyewickreme
903/A	Cloning of Endoxylanase 23 (exn23) gene of <i>Trichoderma virens</i> using fusion PCR for expression in bacterial system	U P A C S Karunanayake, M R F Azeera M M M Dilhari, D S K Kukulage, E H L Perera, G H I M Wickramasinghe, N V Chandrasekharan, W S S
904/A	Optimization of Reverse Transcriptase Polymerase Chain Reaction (RT-PCR) based method for the detection of the dengue virus and Identification of dengue virus serotypes using serotype specific Polymerase Chain Reaction	K S Anand, A M M H Athapaththu, P A D H N Gunathilaka, W W P Rodrigo
905/A	Comparison of parasitological and molecular diagnostic methods used for malaria diagnosis in the phase of prevention of reintroduction of malaria in Sri Lanka	W M K T De A W. Gunasekera, R G Premaratne, S Premawansa, O V D S J Weerasena, S M Handunnetti, S D Fernando
906/A	A study on patient information, treatment side effects and patient satisfaction of Radioiodine treated patients	W C D De Silva, M Hettiarachchi

## Section B

907/B	Evaluation on the performance of photo periodic in-sensitive Winged bean ( <i>psophocarpus tetragonolobus</i> (L.)D.C.) varieties in the mid-country wet-zone of Sri Lanka	R Radhakrishnan
908/B	Efficacy of seed pre-sowing Treatments in <i>Bridelia retusa</i> (L.) A.Juss. for seed germination enhancement	M A Dias, R M C S Ratnayake
909/B	Phenolic and flavonoid contents and antioxidant capacity of green tea ice cream	D C Abeysinghe, D N Liyanage, D S G G C Swarnathilake
910/B	Phenolic and flavonoid contents and antioxidant capacity of selected under utilized fruit species	D C Abeysinghe, W A H Wajirani
911/B	Effect of potting media on the growth performance of the seedlings of <i>Pterocarpus marsupium</i> (Gammalu)	N M K K Nawarathna, H M N M Watagodakumbura

## Poster Presentations

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### Section B

<b>913/B</b>	Chemical composition of starches isolated from wheat, rice, foxtail millet proso millet, cassava and sweet potato	<i>K D P P Gunathilake, H D K C Wijesinghe</i>
<b>914/B</b>	Analysis of phenolic, flavonoid and anthocyanin content in edible flowers	<i>K D P P Gunathilake, k A U D Weerasinghe</i>
<b>915/B</b>	Evaluation of some plant materials as fermentation inhibitor for Palmyra sap	<i>K D P P Gunathilake, S Mahilrajan, S Nivethini</i>
<b>916/B</b>	Effect of gamma irradiation on Physico-chemical and sensory properties of a high energy cereal bar	<i>I G N Hewajulige, P L N Lakshman, R C Pitipanaarachchi, G D A U Dayananda, A A G Madurakanthi, H M T Herath</i>
<b>917/B</b>	Effect of different shade levels on vegetative growth of <i>pogostemon heyneauns</i> Benth ( <i>Lamiaceae</i> )	<i>I J Amadoru, A G S G Udadeniya, D C Abeysinghe, H A W S Gunathilaka, R M Dharmadasa</i>
<b>918/B</b>	Effect of different temperatures on oil yield, total antioxidant capacity and bio active compounds of <i>Pogostemon heyneauns</i> Benth ( <i>Lamiaceae</i> )	<i>I J Amadoru, S H C Kulathilaka, D C Abeysinghe, H A W S Gunathilaka, R M Dharmadasa</i>
<b>919/B</b>	Crop water requirements studies of nursery stage plants of <i>Pogostemon heyneau s</i> Benth ( <i>Lamiaceae</i> ) under Different Irrigation Intervals	<i>I J Amadoru, R S M S S Dharmathilaka, H A W S Gunathilake, D C Abeysingh, R M Dharmadasa</i>
<b>920/B</b>	Optimization and acceleration of alcohol fermentation process in pineapple peel vinegar production	<i>C V L Jayasinghe, S Sukirtha, S Saravanan</i>
<b>921/B</b>	Extending of post-harvest shelf life of giant guava with thin edible coating	<i>C V L Jayasinghe, S Sukirtha, H M K Lakmali</i>
<b>922/B</b>	Evaluation of Potential use of Moringa olefera leaf meal as a partial replacement for fish meal in diets for Guppy ( <i>Poecillia reticulata</i> )	<i>K Radampola, P I M Perera</i>

**Section D**

<b>923/D</b>	Proanthocyanidins and selected phenolic and non phenolic compounds in bark and leaf of Ceylon Cinnamon ( <i>Cinnamum Zelanicum</i> Blume)	<i>W P K Abeysekara, G A S Premakumara, W D Ratnasooriya</i>
<b>924/D</b>	Breeding preference of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> in the Knady District	<i>M A S T Fernando, P H D Kusumawaathie</i>
<b>925/D</b>	Some biological aspects of Frigate tuna ( <i>Auxis thazard</i> ) found in Southern, Western and North Western coasts of Sri Lanka	<i>D R Hearath, H A C C Perera, G H C M Hettiarachchi, V K Ranasinghe, M D I C Kumara</i>

**Section E2**

<b>926/E2</b>	Effect of addition of EDTA on calcium absorption by mung plants ( <i>Vigna radiata</i> )	<i>M P Ranhoti, R C L De Silva</i>
<b>927/E2</b>	Impacts of gamma irradiation on microbial and chemical quality of tilapia ( <i>Oreochromis sp.</i> ) fish fillets	<i>I H W Surendra, E M R K B Edirisinghe, R M N P Rathnayake</i>
<b>928/E2</b>	Effect of blanching & acidification as a pretreatment to minimize surface white discolouration of sliced carrots in pickles	<i>A D R Madurangi, R A U J Marapana</i>
<b>929/E2</b>	Effect of the nutritional composition on textural quality of two gherkin ( <i>Cucumis sativus</i> L.) varieties (Ajax & Vlasset) on brine fermentation	<i>T G G Uthpala, R A U J Marapana, A C Pathirage, S A S Jayawardana</i>
<b>930/E2</b>	Evaluation of the inhibitory effect on advanced glycation end product formation by an ayurvedic decoction <i>in-vitro</i>	<i>S C D Fernando, H V N Lakmali, S A Deraniyagala</i>
<b>931/E2</b>	Sitosterol palmitate can bind to human glucocorticoid receptor as an agonist: an <i>in Silico</i> study	<i>Samith Rathnayake, Samantha Weerasinghe</i>

**Section E3**

<b>932/E3</b>	Using EEG based BCI in virtual classroom	<i>Thangarajah Vinothraj</i>
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