

Conference Program

Day 01 : Tuesday, 12th August 2014

Start	End	Bougainvillea	
8.00 a.m.	8.30 a.m.	Conference Registration	
8.30 a.m.	9.30 a.m.	<p>Inauguration Session</p> <p>Welcome address by the Conference Chair : Prof. K.M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka)</p> <p>Chief Guest Speech</p> <p>Hon. Patali Champika Ranawaka (Minister of Technology, Research and Atomic Energy, Sri Lanka.)</p>	
9.30 a.m.	10.15 a.m.	Conference Photo & Morning Refreshment	
10.15A .M. - 12.45 P.M.	10.15 a.m.	10.30 a.m.	<p>Speech by conference program chair Mr. Isanka P. Gamage (Director- The International Institute of Knowledge Management (TIKM), Sri Lanka)</p>
	10.30 a.m.	11.15 a.m.	<p>Keynote forum</p> <p>Prof. Gehan Amaratunga (Group Leader, Electronics, Power and Energy Conversion (EPEC) Research Group, Electrical Engineering Division, Department of Engineering, University of Cambridge, United Kingdom(UK)), Chief of Research and Innovation, Sri Lanka Institute of Nanotechnology.</p>
	11.15 a.m.	12.00 p.m.	<p>Emeritus Professor of UCL Anthony (Tony) Owen (Principle Fellow & Head, Energy Economics, Energy Studies Institute, National University of Singapore, Singapore) <i>"Do liberalized electricity markets discourage investment in renewable technologies?"</i></p>
	12.00 p.m.	12.45 p.m.	<p>Prof. Dong Hwa Kim (Department of Electronic and Control Engineering, Hanbat National University and President of HuCARE, South Korea) <i>"Smart Energy System and ICT in Korea"</i></p>

12.45 p.m.	01.45 p.m.	Networking Lunch	
01.45 P.M. - 04.00 P.M.	01.45 p.m.	02.30 p.m.	Keynote forum continue..... Prof. K.M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka) <i>"Nanotechnology and Smart Textiles"</i>
	02.30 p.m.	03.15 p.m.	Prof. Morinobu ENDO (Department of Electrical and Electronic Engineering, Faculty of Engineering, Shinshu University, Japan) <i>"Responsible Production and Applications of Carbon Nanotubes"</i>
	03.15 p.m.	04.00 p.m.	Prof. Joshua Le-Wei Li (IEEE Fellow & EM Academy Fellow, Director, Multidisciplinary Program of Advance Engineering School of Engineering, MONASH University, Malaysia) <i>"Nano Electronics and Electromagnetics: Progresses from Theory via Design to Applications"</i>
04.00 p.m.	04.30 p.m.	Evening Refreshment	
04.30 P.M. - 06.00 P.M.	04.30 p.m.	5.15 p.m.	Prof. R. M. Gamini Rajapakse (University of Peradeniya, Sri Lanka) <i>"Nanotechnology Research at University of Peradeniya"</i>
	05.15 p.m.	06.00 p.m.	Mr. Srilal Weerasinghe (Executive Director - International Marketing at United Carbon Solutions Pvt Ltd., Sri Lanka)
06.30pm		Conference Dinner & Cultural Show @ Cye-Nor Restaurant - Hosted by TIKM	

Day 02 : Wednesday, 13th August 2014		
Start	End	Bougainvillea
08.30 a.m.	09.00 a.m.	Plenary Speech: Prof. P. Ravirajan (Department of Physics, University of Jaffna, Sri Lanka) <i>Strategies to improve the performance of Hybrid Nanocrystalline Titanium dioxide / Polymer Solar Cell using interface modifiers</i>
09.00 a.m.	09.30 a.m.	Morning Refreshment

09.30 A.M. -11.10 A.M.			Bougainvillea
			TECHNICAL SESSION 1 : NANOMATERIALS AND APPLICATIONS (i)
			Chaired by Prof. K.M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka)
	09.30 a.m.	09.50 a.m.	<ul style="list-style-type: none"> Mr. K. G. Chathuranga Senarathna (Department of Chemistry, Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka) <i>Synthesis and characterization of polypyrrole-silver-montmorillonite clay nanocomposite and its uses as a catalyst for oxygen reduction reaction</i>
	09.50 a.m.	10.10 a.m.	<ul style="list-style-type: none"> Mr. Biplab Pal (Department of Physics, University of Kalyani, Kalyani, West Bengal, India) <i>Engineering bands of extended electronic states in a class of topologically disordered and quasiperiodic nanostructures</i>
10.10 a.m.	10.30 a.m.	<ul style="list-style-type: none"> Mr. M. M. M. G. P. G. Mantilaka (Department of Chemistry, Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka) <i>Polyaniline/vaterite nanocomposite, prepared using natural calcite, with superior anticorrosive performance</i> 	
10.30 a.m.	10.50 a.m.	<ul style="list-style-type: none"> Dr. V. I. Lysenko (Institute of Theoretical & Applied Mechanics, Russian Academy of Sciences, Novosibirsk, Russia) <i>Different-oxides nanoceramics microhardness</i> 	
10.50 a.m.	11.10 a.m.	<ul style="list-style-type: none"> Mr. J.S. Roy (Department of Physics, University of Kalyani, West Bengal, India) <i>photoluminescence behavior of sodium titanate nanoparticles dispersed in liquid crystals</i> 	
09.40 A.M. -11.20 A.M.			Anthurium
			TECHNICAL SESSION 2: ENERGY CRISIS AND SUSTAINABLE ENERGY
			Chaired by Emeritus Professor of UCL Anthony (Tony) Owen (Principle Fellow & Head, Energy Economics, Energy Studies Institute, National University of Singapore, Singapore)
09.40 a.m.	10.00 a.m.	<ul style="list-style-type: none"> Mr. A. S. Withanaarachchi (Department of Industrial management, University of Kelaniya, Sri Lanka) <i>Technology Foresight for a vision of renewable energy sector development in Sri Lanka by year 2030</i> 	
10.00 a.m.	10.20 a.m.	<ul style="list-style-type: none"> Dr. S. J. Pawar (Motilal Nehru National Institute of Technology Allahabad, India) <i>Investigations on the global energy burden of mobile phone charging</i> 	

	10.20 a.m.	10.40 a.m.	<ul style="list-style-type: none"> • Ms. Gülcan Özel (Department of Energy Systems Engineering, Faculty of Engineering, Yasar University, Izmir, Turkey) <i>Novel method for determining optimum insulation thickness of a piping System</i> • Prof. Chibuïke Uche (African Studies Centre Leiden, Netherlands) <i>Relevance Lost? The Petroleum Equalization Fund in Nigeria</i> • Mr. Kiran Kumar Gali (Bioprocess laboratory, Bapatla Engineering College, Bapatla, India) <i>A novel approach for production of biodiesel from waste cooking oil by immobilized cutinase bioreactors</i>
	10.40 a.m.	11.00 a.m.	
	11.00 a.m.	11.20 a.m.	
09.40 A.M. - 12.00 P.M.	09.40 a.m.	10.00 a.m.	<p style="text-align: center;">Saloon Orchid</p> <p style="text-align: center;">TECHNICAL SESSION 3: NANOBIO TECHNOLOGY AND NANOMEDICINE</p> <p>Chaired by Prof. P. Ravirajan (Department of Physics, University of Jaffna, Sri Lanka)</p> <ul style="list-style-type: none"> • Prof. Abdulaziz Al Khedhairy (Department of Zoology, College of Science, King Saud University, Kingdom of Saudi Arabia) <i>Assessment of mutagenic potential of metal oxide nanoparticles through a novel genetic approach</i> • Prof. Tapan Kumar Das (Department of Biochemistry and Biophysics, University of Kalyani, West Bengal, India) <i>Spectroscopic interaction studies between biosynthesized silver nanoparticle and calf thymus DNA</i> • Ms. Jarika Kaewbanjong (Department of Pharmaceutical Technology, Faculty of Pharmaceutical Sciences, Prince of Songkla University, Thailand) <i>Formulation and characterization of clotrimazole microemulsions and microemulsion-based gels</i> • Ms. Dorota Bociaga (Lodz University of Technology, Institute of Materials Science and Engineering, Poland) <i>Antimicrobial efficacy and biocompatibility of silver-including nanocomposite carbon coatings</i> • Mr. Md. Rizwan (Centre for Nano Sciences, Central University of Gujarat, Sector-30, Gandhinagar, Gujarat, India) <i>Physicochemical and Friccohesity Study of 20, 40 and 60 nm Ag - Nanoparticles in DMSO at 303.15 K</i> • Mr. W. P. Sanjeeva Lakmal Wijesinghe (Department of Chemistry, Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka) <i>Nanoscale amorphous titanium dioxide coatings on stainless steel disks via atomized spray pyrolysis technique for applications as prostheses for orthopaedic transplants</i>
	10.00 a.m.	10.20 a.m.	
	10.20 a.m.	10.40 a.m.	
	10.40 a.m.	11.00 a.m.	
	11.00 a.m.	11.20 a.m.	
	11.20 a.m.	11.40 a.m.	

	11.40 a.m.	12.00 p.m.	<ul style="list-style-type: none"> • Dr. S. J. Pawar (Motilal Nehru National Institute of Technology Allahabad, India) <i>Homeopathy: an alternative medicine reviewed from nanotechnology and nanoscience perspective</i>
11.25 A.M. -12.25 P.M.	11.25 a.m.	11.45 a.m.	<p style="text-align: center;">Anthurium</p> <p style="text-align: center;">TECHNICAL SESSION 4: NANO IN TEXTILE, AGRICULTURE, WATER AND FOOD SCIENCE (i)</p> <p>Chaired by Dr. Jing Hui He (Department of Chemistry, National University of Singapore, Singapore)</p> <ul style="list-style-type: none"> • Dr. G. N. Rameshaiah (Department of Chemical Engineering, B M S College of Engineering Bengaluru, Karnataka, India) <i>Nano fertilizers in farming</i> • Ms. M. S. Fernando (Department of Chemistry, University of Colombo, Sri Lanka) <i>Modified Activated Carbon to be used in Acute Iron Toxicity</i> • Ms. Nadeeka D. Tissera Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Electricity conductive cotton fabric using reduced graphene oxide dye</i>
	11.45 a.m.	12.05 p.m.	
	12.05 p.m.	12.25 p.m.	
11.25 A.M. - 12.05 P.M.	11.25 a.m.	11.45 a.m.	<p style="text-align: center;">Bougainvillea</p> <p style="text-align: center;">TECHNICAL SESSION 5: NANOSCALE MODELING AND SIMULATIONS</p> <p>Chaired by Prof. K.M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka)</p> <ul style="list-style-type: none"> • Dr. Akihiko Ito (Composite Materials Research Laboratories, Toray Industries, Inc., Japan) <i>Defect evaluation of PAN-based carbon fibers using lifetime spectroscopy with positron annihilation and molecular dynamics simulations</i> • Prof. Shingo Okamoto (The Graduate School of Science and Engineering, Ehime University University, Japan) <i>Compressive Strength of PAN-based Carbon Fibers Using Molecular Dynamics Simulations</i>
	11.45 a.m.	12.05 p.m.	
12.00 p.m.	12.30 p.m.	POSTER SESSION @ Tulip hall	
12.30 p.m.	01.30 p.m.	Networking Lunch	

01.30 p.m.	02.00 p.m.	<p style="text-align: center;">Bougainvillea</p> <p>Plenary Speech: Dr. Rohini M. de Silva (University of Colombo, Sri Lanka) <i>Applications of Nanotechnology in water purification</i></p>	
02.00 P.M. - 04.00 P.M.	02.00 p.m.	02.20 p.m.	<p style="text-align: center;">Bougainvillea</p> <p>TECHNICAL SESSION 6: NANOELECTRONICS AND SOLAR CELLS</p> <p>Chaired by Prof. Dong Hwa Kim (Department of Electronic and Control Engineering, Hanbat National University and President of HuCARE, South Korea)</p> <ul style="list-style-type: none"> • Dr. Jing Hui He (Department of Chemistry, National University of Singapore, Singapore) <i>Orbital resolving of molecules covalently attached to a clean semiconductor surface</i> • Ms. E. N. Jayaweera (Postgraduate Institute of Science, University of Peradeniya, Sri Lanka) <i>Highly efficient SnO₂/MgO composite film-based dye-sensitized solar cells co-sensitized with N719 and D358 dyes</i> • Mr. C.S.K. Ranasinghe (Postgraduate institute of Science, University of Peradeniya, Sri Lanka) <i>High efficient ZnO-CuSCN based all solid-state dye-sensitized solar cell</i> • Mr. Senthuran Sivasubramaniam (Department of Physics, University of Jaffna, Sri Lanka) <i>Fabrication of low-cost UV nanoimprint master mold by interference lithography</i> • Mr. T. Kulatheepan (Department of Chemistry, University of Jaffna, Sri Lanka) <i>Improved performance of Dye Sensitized Solar Cells made With Visible Light Responsive Titanium Dioxides</i> • Mr. M. Thanihaichelvan (Department of Physics, University of Jaffna, Sri Lanka) <i>Cadmium sulphide (CdS) quantum dots (QD) on vertically aligned zinc oxide (ZnO) nanorods for photovoltaic application</i>
	02.20 p.m.	02.40 p.m.	
	02.40 p.m.	03.00 p.m.	
	03.00 p.m.	03.20 p.m.	
	03.20 p.m.	03.40 p.m.	
	03.40 p.m.	04.00 p.m.	

02.10 P.M. - 03.50 P.M.			Anthurium
			TECHNICAL SESSION 7: NANOMATERIALS AND APPLICATIONS (ii)
			Chaired by Dr. G. N. Rameshaiah (Department of Biochemistry and Biophysics, University of Kalyani, West Bengal, India)
	02.10 p.m.	02.30 p.m.	<ul style="list-style-type: none"> Mr. Yashoda Somarathne (Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka) <i>Biomimetic synthesis of precipitated calcium carbonate/poly (ethylene glycol) nanocomposite using dolomite</i>
	02.30 p.m.	02.50 p.m.	<ul style="list-style-type: none"> Ms. K.A.D.D. Kuruppu (Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Green nanocomposite having flame retardant property for interior wallpanels in Aircraft applications</i>
02.50 p.m.	03.10 p.m.	<ul style="list-style-type: none"> Ms. Asangi Gannoruwa (Faculty of Science & Technology Uva Wellassa University, Sri Lanka) <i>Effect of IR intensity on photocatalytic water splitting by Ag₂O/TiO₂ IR Photocatalyst</i> 	
03.10 p.m.	03.30 p.m.	<ul style="list-style-type: none"> Mr. M.T.V.P. Jayaweera (Materials Technology Section, Industrial Technology Institute, Sri Lanka.) <i>Synthesis and characterization of Nanoparticulate zero valent iron-graphene composite</i> 	
03.30 p.m.	03.50 p.m.	<ul style="list-style-type: none"> Dr. Shahab Zomorodbakhsh (Department of Chemistry, Mahshahr Branch, Islamic Azad University, Mahshahr, Iran) <i>Synthesis of nano pigments by Functionalization of single-walled nanotubes</i> 	
02.10 P.M. -03.50 P.M.			Saloon Orchid
			TECHNICAL SESSION 8: NANO IN TEXTILE, AGRICULTURE, WATER AND FOOD SCIENCE (ii)
			Chaired by Prof. Tapan Kumar Das (University of Peradeniya, Sri Lanka)
02.10 p.m.	02.30 p.m.	<ul style="list-style-type: none"> Ms. Nadeeka D. Tissera (Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Ultrasound induced cavitation for efficient dyeing of knitted cotton fabrics</i> 	
02.30 p.m.	02.50 p.m.	<ul style="list-style-type: none"> Mr. Ruchira N. Wijesena (Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Extraction and characterization of chitin and chitosan biopolymers from local portunus pelagicus (blue swimmer crab)</i> 	

02.50 p.m.	03.10 p.m.	<ul style="list-style-type: none"> • Ms. Danushika C. Manatunga (Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Comparative study on the use of different non- fluorinated hydrophobization agents to create increased hydrophobicity on cotton fabrics</i> • Mr. Ishara Dharmasena (Sri Lanka Institute of Nanotechnology, Sri Lanka) <i>Reinforcement of Impact resistant fabrics using the Shear Thickening Behavior of Colloidal Dispersions</i> • Prof. Dr. Vedat Uyak (Department of Environmental Engineering, Pamukkale University, Turkey) <i>Fabrication and characterization of carbon nanotube – polyethersulfone blend membranes for water treatment</i>
03.10 p.m.	03.30 p.m.	
03.30 p.m.	03.50 p.m.	
04.00 p.m.	04.30 p.m.	Evening Refreshment
04.30 p.m.	05.15 p.m.	Conference Concluding Session
05.15 p.m.	05.50 p.m.	Awarding Ceremony
05.50 p.m.	06.00 p.m.	<p>Vote of thanks by the Conference Publicity Chair :</p> <p>Mr. Oshadee Withanawasam (Director- The International Institute of Knowledge Management (TIKM), Sri Lanka)</p>
Day 03 : 14th August 2014- Post Conference Tour (Optional)		

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