

# 5<sup>th</sup> International Conference on Nano Science and Nanotechnology 2018 (ICNSNT 2018)

“Nanoscience and Nanotechnology; Interdisciplinary Approach for  
Innovation and Invention”

13<sup>th</sup> - 14<sup>th</sup> December 2018 in Colombo, Sri Lanka

## TECHNICAL PROGRAM

### DAY 01 - THURSDAY, 13<sup>TH</sup> DECEMBER, 2018

<b>INAUGURATION SESSION</b>	<b>Thursday, 13<sup>th</sup> December 2018   08.00 to 10.20   Longdon Room</b>	
	08.00 – 09.00	Conference Registration
	09.00 – 09.10	Lighting of the Oil Lamp and National Anthem
	09.10 – 09.20	Welcome Address by the Conference Convener Mr. Isanka P. Gamage ( <i>Co-Founder &amp; Managing Director - The International Institute of Knowledge Management (TIKM), Sri Lanka</i> )
	09.20 – 09.40	Speech by the Conference Chair Prof. K.M. Nalin de Silva ( <i>Senior Professor of Chemistry, University of Colombo and Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )
	09.40 – 09.50	Speech by the Chief Guest Dr. B.M.S. Batagoda ( <i>Hon. Secretary, Ministry of Power and Renewable Energy, Sri Lanka</i> )
	09.50 – 10.00	Launch of Conference Trailer - ICNSNT 2019
	10.00 – 10.20	Conference Photograph
	10.20 – 10.40	Morning Refreshments

<b>KEYNOTE FORUM</b>	<b>Thursday, 13<sup>th</sup> December 2018   10.40 to 12.40   Longdon Room</b>	
	10.40 – 11.20	"Particle Accelerators in Nano Science" Prof. Nilanga Liyanage ( <i>Professor of Physics, University of Virginia, USA</i> )
	11.20 – 12.00	"Novel Research Conducted in the Area of Nanotechnology" Prof. G.R.A. Kumara ( <i>National Institute of Fundamental Studies, Sri Lanka</i> )
	12.00 – 12.40	"Nanoscale Architectures from Electro Hydrodynamic Processes, and Their Applications in Drug Delivery" Dr. Gareth Williams ( <i>University College London, United Kingdom</i> )
	12.40 – 13.40	Networking Lunch

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<b>PLENARY SPEECH</b>	<b>Thursday, 13<sup>th</sup> December 2018   13.40 to 14.10   Longdon Room</b>	
	13.40 – 14.10	Prof. Rohini M. De Silva ( <i>University of Colombo, Sri Lanka</i> )

<b>TECHNICAL SESSION 01</b>	<b>NANO CATALYSTS AND NANO FABRICATION</b>		
	<b>Thursday, 13<sup>th</sup> December 2018   14.10 to 15.50   Longdon Room</b>		
	Chaired by Dr. Sanjeeva Wijesinghe ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )		
	14.10 – 14.30	A1	Structural and Optical Properties of CuO/ZnO Composite Nanostructures  <i>Agarwal A.<sup>1</sup>, Srivastava S.<sup>2</sup> (<sup>1</sup>Motilal Nehru National Institute of Technology, India, <sup>2</sup>United College of Engineering &amp; Research, India)</i>
	14.30 – 14.50	A2	Carbon Quantum Dots Decorated Magnesium Oxide Nanoparticles as a Photocatalyst and Antibacterial Agent  <i>M.M.M.G.P.G. Mantilaka, Ranga K. Dissanayake, G.T.D. Chandrakumara, D. Dahanayake, K.M. Nalin de Silva, G.A.J. Amaratunga (Sri Lanka Institute of Nanotechnology, Sri Lanka)</i>
	14.50 – 15.10	A3	Replication of the Surface Wettability of Plant Leaves with Different Surface Morphologies using Soft Lithography  <i>Senarathna R.M.D.M., Wanniarachchi W.K.I.L., Jayawardhana S., (University of Sri Jayewardenepura, Sri Lanka.)</i>
	15.10 – 15.30	A4	Oxidation Protection of Carbon Fiber by Zr <sub>3</sub> (PO <sub>4</sub> ) <sub>4</sub> /YPO <sub>4</sub> – B <sub>2</sub> O <sub>3</sub> Composite Nano Coatings  <i>Purasinhala K.<sup>1</sup>, Ratnayake. S.P.<sup>1</sup>, De Silva Y.M.R.<sup>2</sup>, Mantilaka P.G.<sup>1</sup>, Amaratunga G.A.J.<sup>1,3</sup>, De Silva K.M.N.<sup>1,4</sup> (<sup>1</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka, <sup>2</sup>University of Sri Jayewardenepura, Sri Lanka, <sup>3</sup>University of Cambridge, UK, <sup>4</sup>University of Colombo, Sri Lanka)</i>
	15.30 – 15.50	A5	Comparison of Properties Iron Doped ZnO Nanoparticles Fabricated by Microwave Method and Precipitation Method  <i>Ganga Neupane, Parameswar Hari (University of Tulsa, USA)</i>
15.50 – 16.10	Evening Refreshments		

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<b>TECHNICAL SESSION 02</b>	<b>SMART TEXTILES AND APPARELS</b>		
	<b>Thursday, 13<sup>th</sup> December 2018   14.10 to 15.30   Regency Room</b>		
	Chaired by Dr. B. Mythili Gnanamangai ( <i>K.S. Rangasamy College of Technology, India</i> )		
	14.10 – 14.30	B1	Plasma Modified Textile Treated with Plant Mediated Silver Nanoparticles for Biomedical Applications  Manjula S. <sup>1</sup> , Shanmugasundaram O.L. <sup>2</sup> ( <i><sup>1</sup>Kongu Arts and Science College, India, <sup>2</sup>K. S. Rangasamy College of Technology, India.</i> )
	14.30 – 14.50	B2	Preparation of Protein based Fluorescence Dye from Wool Keratin Protein  H.D. Rajapakse <sup>1,2</sup> , N.D. Tissera <sup>2,3</sup> , R.N. Wijesena <sup>2,3</sup> , K.M.N. de Silva <sup>2,3</sup> ( <i><sup>1</sup>University of Moratuwa, Sri Lanka, <sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka, <sup>3</sup>University of Colombo, Sri Lanka</i> )
	14.50 – 15.10	B3	Thermal Responsive Smart Yarn Integrated Wearable Textiles  Nadeeka D. Tissera, Ruchira N. Wijesena, Rohini de Silva, K.M. Nalin de Silva ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )
15.10 – 15.30	B4	Electroless Silver Plating on Premetallized Polyamide Fibers for Smart Textile Applications  P.V.T. Weerasinghe <sup>1,2</sup> , N.D. Tissera <sup>1</sup> , R.N. Wijesena <sup>1</sup> , K.M.N. de Silva <sup>1</sup> ( <i><sup>1</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka, <sup>2</sup>University of Moratuwa, Sri Lanka</i> )	
15.50 – 16.10	Evening Refreshments		

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<b>POSTER SESSION</b>	<b>Thursday, 13<sup>th</sup> December 2018   16.10 to 16.30   Longdon Room</b>	
	P1	Interpenetrative PEG/Chitosan Polymer Thin Films for Smart Textile Applications: Study Shape Memory Responsiveness for Moisture P.V.T. Weerasinghe <sup>1,2</sup> , N.D. Tissera <sup>1</sup> , R.N. Wijesena <sup>1</sup> , K.M.N de Silva <sup>1</sup> ( <sup>1</sup> <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> , <sup>2</sup> <i>University of Moratuwa, Sri Lanka</i> )
	P2	Peptide Directed Self-Assembly of Organic Semiconductors for Biocompatible Electronics A. Rani, I. Kavianinia, P. Hume, J.A. Gerrard, D.E. Williams, M.A. Brimble ( <i>The University of Auckland, New Zealand</i> )
P3	Multiperiodic Spin Precessions of the Optically-Induced Spin Polarization in Al <sub>x</sub> Ga <sub>1-x</sub> As/AlAs Single Quantum Well S. Ullah <sup>1,2</sup> , G.M. Gusev <sup>1</sup> , A.K. Bakarov <sup>3</sup> , F.G.G. Hernandez <sup>1</sup> ( <sup>1</sup> <i>Universidade de São Paulo, Brazil</i> , <sup>2</sup> <i>Gomal University, Pakistan</i> , <sup>3</sup> <i>Institute of Semiconductor Physics and Novosibirsk State University, Novosibirsk, Russia</i> )	

<b>WORKSHOP</b>	<b>Thursday, 13<sup>th</sup> December 2018   16.30 to 18.00   Longdon Room</b>	
	16.30 – 18.00	"Advanced Materials in Pharmaceuticals" Dr. Gareth Williams ( <i>University College London, United Kingdom</i> )

**DAY 02 - FRIDAY, 14<sup>TH</sup> DECEMBER 2018**

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<b>TECHNICAL SESSION 03</b>	<b>SYNTHESIS AND CHARACTERIZATION TECHNIQUES OF ORGANIC AND INORGANIC NANO MATERIALS</b>		
	<b>Friday, 14<sup>th</sup> December 2018   09.00 to 10.20   Longdon Room</b>		
	Chaired by Dr. Lahiru Wijenayake ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )		
	09.00 – 09.20	C1	Synthesis and Characterization of Sequence-Defined Poly (Phosphodiester)S  D.N.A. Appukutti Arachchige ( <i>University of Kent, United Kingdom</i> )
	09.20 – 09.40	C2	Synthesis and Structural Characterization of Mononuclear Zinc Complex for Deposition of ZnO Thin Films by AACVD  Sohail Ahmed <sup>1</sup> , Fida Rehman <sup>2</sup> , Wan Jeffrey Basirun <sup>3</sup> , Numan Arshed <sup>3</sup> ( <sup>1</sup> <i>The University of Haripur, Pakistan</i> , <sup>2</sup> <i>Abbottabad University of Science and Technology, Pakistan</i> , <sup>3</sup> <i>University of Malaya, Malaysia</i> )
	09.40 – 10.00	C3	Synthesis of Calcium Carbonate Microcapsules as Novel Self-Healing Containers  N.M. Hettiarachchi <sup>1,2</sup> , R.T. De Silva <sup>1,2</sup> , M.M.M.G. Prasanga Gayanath Mantilaka <sup>1,2</sup> , K.M. Nalin De Silva <sup>1,2,3</sup> , P. Pasbakhsh <sup>4</sup> ( <i><sup>1</sup>Sri Lanka Institute of Nanotechnology Academy, Sri Lanka</i> , <i><sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> , <i><sup>3</sup>University of Colombo, Sri Lanka</i> , <i><sup>4</sup>Monash University, Malaysia</i> )
	10.00 – 10.20	C4	Soil Actinomycetes Mediated Production of Zinc Oxide Nanoparticles  Gnanamangai B.M., Heela Prabha T. ( <i>K.S. Rangasamy College of Technology, India</i> )
10.20 – 10.40	Morning Refreshments		

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<b>TECHNICAL SESSION 04</b>	<b>NANOMATERIALS IN FOOD, AGRICULTURE, RUBBER AND WATER PURIFICATION</b>		
	<b>Friday, 14<sup>th</sup> December 2018   09.00 to 10.20   Regency Room</b>		
	Chaired by Dr. Parameswar Hari ( <i>University of Tulsa, USA</i> )		
	09.00 – 09.20	D1	<p>Enhancement of Ultimate Tensile Strength of Natural Rubber Composites via Titanium Carbide Nano Particles</p> <p>J.M.A.R.B. Jayasinghe<sup>1,2</sup>, R. T. De Silva<sup>2</sup>, K.M.N. de Silva<sup>1,2</sup>, W.R.M De Silva<sup>1</sup>, M.M.M.G.P.G. Mantilaka<sup>2</sup> (<sup>1</sup><i>University of Colombo, Sri Lanka</i> <sup>2</sup><i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i>)</p>
	09.20 – 09.40	D2	<p>An Overview of Use of Biodegradable and Non-Biodegradable Nano Particles in Different Industries</p> <p>B.K.A. Bellanthudawa<sup>1</sup>, N.M.S.K. Nawalage<sup>2</sup>, H.M.A.K. Handapangoda<sup>2</sup> (<sup>1</sup><i>Ocean University of Sri Lanka, Sri Lanka</i>, <sup>2</sup><i>Ministry of City Planning and Water Supply, Sri Lanka</i>)</p>
	09.40 – 10.00	D3	<p>Synthesis of Electrospun Hydroxyapatite Zinc Oxide Nanorods and Their Photocatalytic Activity on Methylene Blue Degradation</p> <p>N.P. Edirisinghe, W.P.S.L. Wijesinghe, M.M.M.G.P.G. Manthilaka, K.M. Nalin de Silva (<i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i>)</p>
10.00 – 10.20	D4	<p>Hydroxyapatite based Nanocomposites with Biopolymers and Granular Activate Carbon to Remove Different Types of Contaminants from Water</p> <p>M. Shanika Fernando<sup>1</sup>, A.K.D.V. Wimalasiri<sup>1</sup>, S.P. Ratnayake<sup>2</sup>, Rohini M. de Silva<sup>1</sup>, K.M. Nalin de Silva<sup>1,2</sup>, D.P. Dissanayaka (<sup>1</sup><i>University of Colombo, Sri Lanka</i>, <sup>2</sup><i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i>)</p>	
10.20 – 10.40	Morning Refreshments		

<b>PLENARY SPEECH</b>	<b>Friday, 14<sup>th</sup> December 2018   10.40 to 11.10   Longdon Room</b>	
	10.40 – 11.10	Prof. P. Ravirajan ( <i>University of Jaffna, Sri Lanka</i> )

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<b>TECHNICAL SESSION 05</b>	<b>NANODEVICES, NANOSENSORS NANO ELECTRONICS AND NANOPHOTONICS</b>		
	<b>Friday, 14<sup>th</sup> December 2018   11.10 to 12.50   Longdon Room</b>		
	Chaired by Dr. Kumudu Siriwardhane ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )		
	11.10 – 11.30	E1	<p><b>Micro Sized Graphite based Conductive Ink for Capacitive Based E-Paper Devices</b></p> <p>Ruchira N. Wijesena<sup>1,2</sup>, Nadeeka D. Tissera<sup>1,2</sup>, Vimukthi Jayaweera<sup>1</sup>, R.M. de Silva<sup>2</sup>, K.M. Nalin de Silva<sup>1,2</sup> (<sup>1</sup><i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i>, <sup>2</sup><i>University of Colombo, Sri Lanka</i>)</p>
	11.30 – 11.50	E2	<p><b>Fabrication and Characterization of Poly (Vinyl Alcohol) based Fast Responding and High Sensitive Humidity Sensor</b></p> <p>T.S.E.F. Karunarathne, Nirosan Manoharan, S.A.L. Sameera, Vimukthi Jayaweera, A. Karalasingam, W.P.S.L. Wijesinghe, S.G.M. de Silva (<i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i>)</p>
	11.50 – 12.10	E3	<p><b>A Bacterial Biosensor, Struggle in the Laboratory to Enter to the Market; A Potential Candidate in Nano-Photonics Applications</b></p> <p>H.M.L.P.B. Herath<sup>1,3</sup>, Y.I.N.S. Gunawardene<sup>2</sup>, P.W.A.I.D. Panvilawaththa<sup>1</sup>, D.M.C.S. Dissanayake<sup>1</sup>, W.R.M. de Silva<sup>1</sup>, K.M.N. de Silva<sup>1</sup>, L.O.B. Afonso<sup>3</sup>, R.S. Dassanayake<sup>1</sup> (<sup>1</sup><i>University of Colombo, Sri Lanka</i>, <sup>2</sup><i>University of Kelaniya, Sri Lanka</i>, <sup>3</sup><i>Deakin University, Warrnambool Campus, Australia</i>)</p>
	12.10 – 12.30	E4	<p><b>Spin Coherence of Two-Dimensional Electron Gases Confined in Multilayered Structures</b></p> <p>S. Ullah<sup>1,2</sup>, G. M. Gusev<sup>1</sup>, A. K. Bakarov<sup>3</sup>, and F. G. G. Hernandez<sup>1</sup> (<sup>1</sup><i>Universidade de São Paulo, Brazil</i>, <sup>2</sup><i>Gomal University, Pakistan</i>, <sup>3</sup><i>Institute of Semiconductor Physics and Novosibirsk State University, Novosibirsk, Russia</i>)</p>
12.50 – 13.50	Networking Lunch		

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<b>TECHNICAL SESSION 06</b>	<b>NANOBIOTECHNOLOGY, NANOMEDICINE, NANO DRUG DELIVERY SYSTEMS AND BIOPHARMACEUTICALS</b>		
	<b>Friday, 14<sup>th</sup> December 2018   11.10 to 12.50   Regency Room</b>		
	Chaired by Dr. Parameswar Hari ( <i>University of Tulsa, USA</i> )		
	11.10 – 11.30	F1	Cellulose based Polymeric Systems for State-Of-The-Art Drug Delivery  Ratnayake W.R.A.P.J. <sup>1</sup> , Damunupola J.W. <sup>1</sup> , Liyanage A.L.C.J. <sup>2</sup> , Rajapaksha R.G.S.C. <sup>1</sup> , Jayasundera A.C.A. <sup>1</sup> ( <i><sup>1</sup>University of Peradeniya, Sri Lanka, <sup>2</sup>Sabaragamuwa University of Sri Lanka, Sri Lanka</i> )
	11.30 – 11.50	F2	Synthesis and Characterization of Antigen-Functionalized Nanoparticles for Immunodiagnosis of Anti-Leptospiral Antibodies using UV-Visible Spectroscopy  D.M.M.H. Dahanayake <sup>1</sup> , C.D. Gamage <sup>1</sup> , N.M.S. Sirimuthu <sup>2</sup> , A.C.A. Jayasundera <sup>1</sup> ( <i><sup>1</sup>University of Peradeniya, Sri Lanka, <sup>2</sup>University of Sri Jayewardenepura, Sri Lanka</i> )
	11.50 – 12.10	F3	Super Antibacterial Properties of Titanate Species in Dark Conditions  Nadeera Dilshan Wickramasinghe <sup>1</sup> , C.M. Nanayakkara <sup>1</sup> , Rohini M. de Silva <sup>1</sup> , K.M. Nalin de Silva <sup>1,2</sup> , P.H. Lahiru Sandaruwan Jayarathna <sup>1</sup> ( <i><sup>1</sup>University of Colombo, Sri Lanka, <sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )
	12.10 – 12.30	F4	Electrospun Nanofibers Loaded with ZnO as Antibacterial Wound Dressing Materials  V. Umayangana Godakanda <sup>1</sup> , Rohini M. de Silva <sup>1</sup> , K.M. Nalin de Silva <sup>1</sup> , Gareth Williams <sup>2</sup> ( <i><sup>1</sup>University of Colombo, Sri Lanka, <sup>2</sup>University College London, UK</i> )
	12.30 – 12.50	F5	Insight of Silver Chitin Nanoparticle Interaction  T.S. Pituwala Kankanamge, R.N. Wijesena, N.D. Tissera, R. Haputhanthri, K.M.N. de Silva ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )
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<b>TECHNICAL SESSION 07</b>	<b>NANOTECHNOLOGY FOR CLEAN ENERGY AND ENVIRONMENT</b>		
	<b>Friday, 14<sup>th</sup> December 2018   13.50 to 15.30   Longdon Room</b>		
	Chaired by Dr. Prasanga Mantilaka ( <i>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )		
	13.50 – 14.10	G1	Performance Improvement of Dye-Sensitized Solar Cells by MgO Surface Modification on Nanoporous TiO <sub>2</sub> Photoanode  K.D.M.S.P.K. Kumarasinghe, G.R.A. Kumara, D.G.B.C. Karunaratne, R.M.G. Rajapakse, K. Tennakone ( <i>National Institute of Fundamental Studies, Sri Lanka</i> )
	14.10 – 14.30	G2	Tuning Optical Properties in Nanocomposites  Hira Joshi, S. Annapoorni ( <i>University of Delhi, India</i> )
	14.30 – 14.50	G3	PEG and Chitin Nanofibers Composite for Smart Windows with Tunable Transparency  V.W.S.G. Rathnayaka <sup>1,2</sup> , R.N. Wijesena <sup>2,3</sup> , N.D. Tissera <sup>2,3</sup> , K.M.N. de Silva <sup>2,3</sup> ( <i><sup>1</sup>University of Moratuwa, Sri Lanka, <sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka, <sup>3</sup>University of Colombo, Sri Lanka</i> )
	14.50 – 15.10	G4	Rapid Water Decontamination using Hydroxyapatite – Ceria Nanohybrids  A.K.D.V.K. Wimalasiri <sup>1</sup> , M. Shanika Fernando <sup>1</sup> , S.P. Ratnayake <sup>2</sup> , W.R.M. de Silva <sup>1</sup> , K.M.N. de Silva <sup>1,2</sup> , D.P. Dissanayake <sup>1</sup> ( <i><sup>1</sup>University of Colombo, Sri Lanka, <sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka</i> )
	15.10 – 15.30	G5	Thermally Stabilized Nanomagnetite and Nanotitania Doped Polyacrylonitrile Nanofibers for Simultaneous Removal of As(V) and Cd(II) in Water  I.W. Siriwardane <sup>1,2</sup> , W.R.M. de Silva <sup>1</sup> , K.M.N. de Silva <sup>1,2</sup> , G.A.J. Amaratunga <sup>2,3</sup> ( <i><sup>1</sup>University of Colombo, Sri Lanka, <sup>2</sup>Sri Lanka Institute of Nanotechnology, Sri Lanka, <sup>3</sup>University of Cambridge, UK</i> )
15.30 – 15.50	Evening Refreshments		

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<b>CONFERENCE CLOSURE</b>	<b>Friday, 14<sup>th</sup> December 2018   15.50 to 16.20   Longdon Room</b>	
	15.50 – 16.15	Conference Concluding and Awarding Ceremony
	16.15 – 16.20	Vote of Thanks  Mr. Duminda Korlagamage ( <i>Assistant General Manager - The International Institute of Knowledge Management (TIKM), Sri Lanka</i> )

**Saturday, 15<sup>th</sup> December 2018 | Post Conference Tour (Optional)**

## **ICNSNT 2018 Conference Chair**

.....  
**Prof. K.M. Nalin de Silva**

(Senior Professor of Chemistry, University of Colombo and Sri Lanka Institute of Nanotechnology, Sri Lanka)

## **Conference Convener**

.....  
**Mr. Isanka P. Gamage**

(The International Institute of Knowledge Management, Sri Lanka)

## **Conference Secretary**

.....  
**Mr. Saranga Meepitiya**

(The International Institute of Knowledge Management, Sri Lanka)

## **Evaluation Panel**

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- Prof. Nilanga Liyanage (Professor of Physics University of Virginia, Sri Lanka)
- Prof. G.R.A. Kumara (National Institute of Fundamental Studies, Sri Lanka)
- Dr. Gareth Williams (University College London, United Kingdom)
- Prof. P. Ravirajan (University of Jaffna, Sri Lanka)
- Dr. Dhanushi Welideniya (Sri Lanka Institute of Nanotechnology, Sri Lanka)

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## Organizer



## Hosting Partner



## Supporting Ministry



## Academic Partner



## Academic Partner



## Event Partner



## Tour Partner



## Official Airline Partner

