
TIIKM’S 2nd Annual International Conference on Nanoscience and Nanotechnology – 2015 and TIIKM’S 2nd Annual International Conference on Energy – 2015 was held on 02nd – 04th September 2015 in Colombo, Sri Lanka. The conference was organized by the International Institute of Knowledge Management (TIIKM) with the collaboration of IEEE and Sri Lanka Convention Bureau as the Strategic Partner. The opening was marked by Mr. Isanka P. Gamage (Director- The International Institute of Knowledge Management (TIIKM), Sri Lanka) and Prof. K. M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka). The guest speech was given by Hon. Patali Champika Ranawaka (Former Minister of Technology, Research and Atomic Energy, Sri Lanka.)

Keynote forum

The Keynote forum was one of the most significant parts of the conference and it was enlightened by (04) expertise in the field namely:

Prof. Gehan Amaratunga (The Group Leader of the Electronics, Power and Energy Conversion (EPEC) Research Group, Electrical Engineering Division, Department of Engineering, University of Cambridge, United Kingdom) - Nanotechnology in Agriculture: Nanoparticles as a Platform for Enhanced Plant Uptake of Nitrogen

Prof. K. M. Nalin de Silva (Professor of Chemistry, University of Colombo and Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Sri Lanka) - The Future of Smart Textiles

Prof. R. M. Gamini Rajapaksa (Senior Professor in Chemistry, University of Peradeniya, Sri Lanka) - Extremely Low-cost Alternatives For The Oxygen Reduction Catalyst of Fuel Cells
Prof. Moreno ENDO (Department of Electrical and Electronic Engineering, Faculty of Engineering, Shinshu University, Japan) The State-of-the-Art Science and Applications of Carbon Nanotubes

Plenary Speeches

Plenary speeches were delivered by;

Prof. P. Ravirajan (Professor and Head, Department of Physics, University of Jaffna, Sri Lanka)

Strategies for Improving Charge Transport in Nano crystalline Titanium Dioxide Based Solar Cells

Dr. Rohini M. de Silva (Department of Chemistry, University of Colombo, Sri Lanka)

Applications of Activated Carbon Nanocomposites in Water Purification

Prof. C. A. N. Fernando (Department of Electronics, Faculty of Applied Sciences, Wayamba University of Sri Lanka, Kliiyapitiya, Sri Lanka) Explanation of the photocurrent efficiency(ϕ) enhancements, through the CAN’s model equation for the p-Cul sensitized methylviolet-C18 (M-C18 ) LB films in the photoelectrochemical cells (PECs) and Cu/n-Cu2O/MC18/p-Cul solid state photovoltaic cells

Dr. (Eng.) T L Pradeep (Head of the Construction DivisionJLanka Technologies, : Head of the Department /Senior Lecturer– Esoft college of Engineering and Technology, Affiliated to Kingston University-London)- Low carbon Green building design and construction

Dr. Shehan de Silva (Senior Research Scientist, Manager - Strategic Planning, Sri Lanka Institute of Nanotechnology, Sri Lanka) - Graphene applications and 3D Printing
The conference included (14) technical sessions and a poster session. Technical sessions were carried under the following themes:

- Nanotechnology in Water Purification
- Nano biotechnology
- Energy Conversion and Storage
- Nanomaterials, Nanocomposites and Nano Coatings
- Energy Conversion And Storage
- Emerging Challenges in Energy Sector