

**NANO-SciTech 2013
PROGRAMME TABLE**

MARCH 1, 2013 (Friday)	
08:00-17:00	MoA (LIAISON OFFICE) SIGNING CEREMONY BETWEEN UiTM AND NITech (Universiti Teknologi MARA (UiTM), Shah Alam)
15:00-18:00	PRE-REGISTRATION (Perdana Hall)

MARCH 2, 2013 (Saturday)			
07:30-08:30	REGISTRATION (Perdana Hall)		
08:30-09:00	PRAYER RECITAL & WELCOME ADDRESS (Perdana Hall) Prof. Dr. Ahmad Sazali Hamzah Director of The Institute of Science		
09:00-09:45	KEYNOTE LECTURE (Perdana Hall) Prof. Dr. Yuji Iwamoto Nagoya Institute of Technology, Japan “Microporous Amorphous Ceramic-Based Membranes for Gas Separation”		
09:45-10:05	INDUSTRIAL TALK 1 (Perdana Hall) Mr. Kenneth Way Perkin Elmer Sdn Bhd “Perkin Elmer Latest Advancement in Spectroscopy (2D-IR), Thermal and Hyphenation Techniques (TGA-FTIR-GCMS) in Complex Material and Nanomaterial Applications”		
10:05-10:25	BREAK		
	BREAK UP SESSION		
	PERDANA HALL	GASING HALL	SERULING HALL
	Chairperson: Dr. Suriani Abu Bakar	Chairperson: Dr. Mohd Zainizan Sahdan	Chairperson: Dr. Mohd Khairul Ahmad
10:25-10:55	INVITED LECTURE Prof. Dr. Tetsuo Soga (Nagoya Institute of Technology, Japan) “Nanocarbons for Organic Solar Cells”	INVITED LECTURE Prof. Dr. Uda Hashim (Universiti Malaysia Perlis, Malaysia) “Fabrication and Characterization of the Nanogap Electrode using Size Reduction Technique for DNA Hybridization Detection”	INVITED LECTURE Prof. Engr. Dr. Mohamad Rusop Mahmood (Universiti Teknologi MARA, Malaysia) “Fabrication of N-Type Semiconductive Nano-Structured Zinc Oxide Based Opto-Electronic Devices by Sol-Gel Deposition Method”

<p>10:55-11:15</p>	<p>P1 Zainovia Lockman (Universiti Sains Malaysia, Malaysia) “Dispersion of Iron Oxide Nanoparticles on Oxide Nanotubes: Catalysts and Catalysts Support Design”</p>	<p>P2 Delyan R. Hristov (University College Dublin, Ireland) “Optimising the Synthesis of Transferrin grafted Silica Nanoparticles for use as a Targeting Platform”</p>	<p>P3 S. S. Abbas (Universiti Teknologi Malaysia, Malaysia) “Raman Vibration and Defect of SnO₂ Nanoparticles by Sol-gel Method”</p>
<p>11:15-11:35</p>	<p>P4 Dr. Saw Kim Guan (Universiti Sains Malaysia, Malaysia) “Ultraviolet Photoresponse Properties of Zinc Oxide Nanorods on Heavily Boron-doped Diamond Heterostructure”</p>	<p>P5 Khatijah Aisha Yaacob (Universiti Sains Malaysia, Malaysia) “Anodic Electrophoretic Deposition of TiO₂ Nanoparticles Synthesis Using Sol-Gel Method”</p>	<p>P6 Dr. Nurul Alimah Abdul Nasir (Universiti Teknologi MARA, Malaysia) Ocular Tissue “Distribution of Topically Applied Pegylated and Non-Pegylated Liposomes”</p>
<p>11:35-11:55</p>	<p>P7 Dr. Soran Mamand (University of Sulaimani, Iraq) “Effect of Parameters on Lattice Thermal Conductivity in Germanium Nanowires”</p>	<p>P8 Dr. N. Nafarizal (Universiti Tun Hussein Onn Malaysia, Malaysia) “Electron and Ion Densities Distribution in Reactive Zn Sputtering Plasma and Its Deposited ZnO Thin Film”</p>	<p>P9 Azlin Fazlina Osman (The University of Queensland, Australia) “Effect of Processing Route on the Morphology of Thermoplastic Polyurethane (TPU) Nanocomposites Incorporating Organofluoromica”</p>
<p>11:55-12:15</p>	<p>P10 Nadjima Benkara Mohammed (Universiti Malaya, Malaysia) “Field Electron Emission of MWCNTs/PEO Composites”</p>	<p>P11 Naif Mohammed Ali Al-Hada (Universiti Putra Malaysia, Malaysia) “Synthesis and Characterization of Cadmium Oxide Nanoparticles By Thermal Treatment Method”</p>	<p>P12 Abdullah Ahmed Ali Ahmed (Universiti Putra Malaysia, Malaysia) “The effects of pH value on the structural, textural and optical properties of Zn-Al layered double hydroxide (Zn-Al-NO₃-LDH) nanostructure”</p>

12:15-12:35	<p>P13 Dr. Sukreen Hana Herman (Universiti Teknologi MARA, Malaysia) “Effect of Seed Layer Morphology on the Growth of Zinc Oxide Nanotetrapods by Thermal Chemical Vapour Deposition Method”</p>	<p>P14 M. S. Azmina (Universiti Pendidikan Sultan Idris, Malaysia) “The Effect Of Carrier Gas On The Field Electron Emission Properties Of Carbon Nanotubes Synthesized From Palm Oil”</p>	<p>P15 Tijjani Adam (Universiti Malaysia Perlis, Malaysia) “Fabrication of Micro-mixer for Life Sciences Applications”</p>
12:35-12:55	<p>P18 Dr. Azira Abd Aziz (Malaysian Rubber Board, Malaysia) “Effect of Multi-Wall Carbon Nanotubes on The Properties of Natural Rubber Nanocomposites”</p>	<p>P17 Sakinah Mohd Yusof (Universiti Teknologi MARA, Malaysia) “Electrodeposition as an alternative route to preparing nanostructured lead-free solder alloy: A short review”</p>	<p>P16 Tijjani Adam (Universiti Malaysia Perlis, Malaysia) “Fabrication of Semiconductor Silicon Nanowire by BOE Based Micro-nano Indentation”</p>
12:55-14:00	LUNCH		
	PERDANA HALL	GASING HALL	SERULING HALL
	Chairperson: Dr. Azira Abd Aziz	Chairperson: Dr. Zuraida Khusaimi	Chairperson: Ms. Lyly Nyl Ismail
14:00-14:30	<p>INVITED LECTURE</p> <p>Prof. Dato’ Dr. Burhanuddin Yeop Majlis (Universiti Kebangsaan Malaysia, Malaysia) “Lab on Chip for Biomedical Applications”</p>	<p>INVITED LECTURE</p> <p>Prof. Dr. Sharifah Bee Abdul Hamid (Universiti Malaya, Malaysia) “Palm Tree Biorefining: Role of Nanocatalysts for Sustainability of Energy and Chemicals”</p>	<p>INVITED LECTURE</p> <p>Prof. Dr. Norlida Kamarulzaman (Universiti Teknologi MARA, Malaysia) “Modified Functionalities of Nanostructured Metal Oxides”</p>
14:30-14:50	<p>P19 Kishore Kumar Mayuranathan (Anna University Chennai, India) “An Economic Route Towards the Fabrication of Carbon Nanotube Based Nano Electronic Device”</p>	<p>P20 Lim Huey Sia (Universiti Tun Hussein Onn Malaysia, Malaysia) “Influence of the Metal Oxide Ohmic Resistance of Energy Saving Glass on the Transmission of GSM Signal using Bandpass Frequency Selective Surface”</p>	<p>P21 Low Jia Wei (Universiti Tun Hussein Onn Malaysia, Malaysia) “Influence of Rf Power in Copper Sputtering Plasma Measured by Optical Emission Spectroscopy”</p>

14:50-15:10	<p>P22 Dr. Mohd Khairul Ahmad (Universiti Tun Hussein Onn Malaysia, Malaysia) “Rutile-Phased TiO₂ Nanorods and Nanoflowers for Rutile-Based Dye-Sensitized Solar Cell”</p>	<p>P23 Azry Borhan (Universiti Teknologi PETRONAS, Malaysia) “Preparation and Characterization of Activated Carbon from Wood Sawdust Prepared via Chemical Activation using Potassium Hydroxide”</p>	<p>P24 Dr. Suriani Abu Bakar (Universiti Pendidikan Sultan Idris, Malaysia) “Synthesis of Carbon Nanotubes on Nanostructured Titanium Dioxide Thin Films”</p>
15:10-15:30	<p>P25 Amal Bakr Shori (University of Malaya, Malaysia) “The Influence of <i>Allium Sativum</i> or <i>Cinnamomum Verum</i> on Cow- and Camel- Milk Yogurt: Proteolytic and Angiotensin-I Converting Enzyme-Inhibitory Activities”</p>	<p>P26 Soon Chin Fhong (Universiti Tun Hussein Onn Malaysia, Malaysia) “Cell Traction Force Mapping in MG63 and HaCaTs”</p>	<p>P27 Mohd Sobri Abd Razak (University of Malaya, Malaysia) “Annealing Effect of Nickel (Ni) /Indium Tin Oxide (ITO) Nanostructure Deposited by RF Magnetron Sputtering”</p>
15:30-15:50	<p>P28 Engr. Mohd Faizal Fauzan (Taylor’s University, Malaysia) “Potential of Size Reduction of Flat-plate Solar Collectors When Applying Al₂O₃ Nanofluid”</p>	<p>P29 Rasel Das (University of Malaya, Malaysia) “Multifunctional Carbon Nanotubes (CNTs): A New Dimension in Environmental Remediation”</p>	<p>P30 Amin Termeh Yousefi (Universiti Teknologi Malaysia, Malaysia) “Simulation of Nano Sensor Based on Carbon Nanostructures in Order to Form Multifunctional Drug Delivery Platforms”</p>
15:50-16:10	<p>P31 Reza Shabannia (Universiti Sains Malaysia, Malaysia) “Growth and Characterization of ZnO Nanostructures Grown on Porous Silicon Substrates: Effect of Different Etching Times”</p>	<p>P32 Shazed Md. Aziz (Universiti Putra Malaysia, Malaysia) “Application of Cnt Enhanced Carbon Fibers in Hybrid Composites with Improved Interfacial Properties”</p>	<p>P33 Dr. Elango Natarajan (University Technology Malaysia, Malaysia) “A Review Article: Researches on Soft Material for Robot Soft Hand Applied to Soft Manipulation”</p>
16:10-16:30	<p>P34 Abdullah Taher Naji (Universiti Sains Malaysia, Malaysia) “Reduction of Backscattered Radiation in an X-ray Room by Using Fabricated Iron Steel Grid”</p>	<p>P35 M. Wesam Al-Mufti (Universiti Malaysia Perlis, Malaysia) “Simulation Based Study of Poly-Silicon Nanowire Surface for DNA Interaction”</p>	<p>P36 Md. Mahbub Ullah (University of Malaya, Malaysia) “Surfactant Assisted Ball Milling: A Simple Top Down Approach For The Synthesis Of Controlled Structure Nanoparticles”</p>

16:30-16:50	<p style="text-align: center;">P37</p> <p style="text-align: center;">Husam S. Al-Salman (Universiti Sains Malaysia, Malaysia) “Fabrication and Characterization of Undoped ZnO Based on UV Photodetector Prepared by RF- Sputtering”</p>	<p style="text-align: center;">P38</p> <p style="text-align: center;">Hani Shazwani Mohd Suhaimi (Universiti Sains Malaysia, Malaysia) “Preparation and Characterization of Polysulfone Mixed Matrix Membrane Incorporated with Thermodynamically Stable Nano-Palladium For Hydrogen Separation”</p>	<p style="text-align: center;">P39</p> <p style="text-align: center;">Zurita Zulkifli (Nagoya Institute of Technology, Japan) “Effects of Hydrogen Annealing on ZnO Thin Films”</p>
16:50-17:00	BREAK		
17:00-18:30	POSTER SESSION 1 PO01 – PO80, PO132, PO133, PO142-PO148, PO175 (Perdana Hall)		
19:45-23:00	CONFERENCE DINNER		

MARCH 3, 2013 (SUNDAY)

07:30-09:00	REGISTRATION (Perdana Hall)		
09:00-09:45	KEYNOTE LECTURE (Perdana Hall) Dr. Abdul Kadir Masrom National Nanotechnology Directorate Division, MOSTI, Malaysia “Nanotechnology – Next Growth Driver for Malaysia towards 2020”		
09:45-10:05	INDUSTRIAL TALK 2 (Perdana Hall)		
10:05-10:25	BREAK		
	BREAK UP SESSION		
	PERDANA HALL	GASING HALL	SERULING HALL
	Chairperson: Dr. Salina Muhamad	Chairperson: Dr. Mohd Zainizan Sahdan	Chairperson: Mr. Mohamad Hafiz Mamat
10:25-10:55	INVITED LECTURE Prof. Dr. Tanemura Masaki (Nagoya Institute of Technology, Japan) “Synthesis of Carbon Nanotube and Graphene by Solid Phase Reaction”	INVITED LECTURE Prof. Dr. Abdul Rahman Mohamed (Universiti Sains Malaysia, Malaysia) “Graphene Synthesis by Transition Metals”	INVITED LECTURE Prof. Dr. Ri Hanum Yahaya Subban (Universiti Teknologi MARA, Malaysia) “A.C Impedance Spectroscopy for Characterisation of Polymer Electrolytes”
10:55-11:15	P40 Dr. Suriati Paiman (Universiti Putra Malaysia, Malaysia) “MOCVD-grown indium phosphide nanowires for optoelectronics”	P41 Md. Sohel Rana (University Malaya, Malaysia) “Investigation of Heat Transfer Performances of Nanofluids Flow Through A Circular Minichannel for Cooling of Electronic Heat Sink”	P42 Siti Aisyah Shamsudin (Kyoto University, Japan) “Aligning CdS Quantum Dots in Apo-ferritin Protein and PS-b-P2VP Organic Templates”
11:15-11:35	P43 Noor Syazwani Bt Mansor (Universiti Sains Malaysia, Malaysia) “A Comparative Study Of Dielectric Strength Between SiR/EPDM And PP/EPDM Blends With Various Type Of Nanofillers”	P44 Sheikh Khaleduzzaman Shah (Universiti Malaya, Malaysia) “Thermal Performance Improvement of Electronics using Nanofluids”	P45 Md. Shahrul Islam (Universiti Malaya, Malaysia) Ocular Tissue “Global Effects Of Mwcnt-Water Nanofluid In A Shell And Tube Heat Exchanger”

11:35-11:55	<p>P46 Amin Kamyar (Universiti Malaya, Malaysia) “Influence of Nanoparticle Type, Size And Weight on Migration Properties of Nanorefrigerant”</p>	<p>P47 Prof. Dr. Shoichiro Ikeda (Universiti Teknologi Malaysia, Malaysia) “Preparation and Applications of Hydrophilic Nano-Carbon Particles”</p>	<p>P48 M.M. Elias (Universiti Malaya, Malaysia) “Effect of Chevron Angle on Performance Investigation of Plate Heat Exchanger using Nanofluid”</p>
11:55-12:15	<p>P49 Nur Ameera Bt Anuar (Universiti Malaya, Malaysia) “Effects of Growth Temperature on Electrical Properties of Nanocolumnar Zinc Oxide Film Deposited by RF Magnetron Sputtering”</p>	<p>P50 Omid Akbarzadeh (Universiti Teknologi PETRONAS, Malaysia) “Influence of Acid and Thermal Treatments on Properties of Carbon Nanotubes”</p>	<p>P51 V.Vasudeva Rao (Sreenidhi Institute of Science and Technology, India) “Experimental Investigation of Relative Performance of Water Based TiO₂ and ZnO Nanofluids in A Double Pipe Heat Exchanger”</p>
12:15-12:35	<p>P52 Mohammad Khairul Alam (Universiti Malaya, Malaysia) “Heat Transfer Performance of Different Nanofluids Flows in A Helically Coiled Heat Exchanger”</p>	<p>P53 Mohammad Abdul Alim (Universiti Malaya, Malaysia) “Analysis of Heat Transfer Performance of a Flat Plate Solar Collector Using Different Nanofluids”</p>	<p>P54 Yanuar Zulardiansyah Arief (Universiti Teknologi Malaysia, Malaysia) “Electrical Treeing and Morphological Analysis of Epoxy Nanocomposites with Different Concentrations of Silica Nanofillers”</p>
12:35-12:55	<p>P55 Nurul Amal Nadhirah Mohamad (Universiti Teknologi MARA, Malaysia) “Plant Extract as Reducing Agent in Synthesis of Metallic Nanoparticles”</p>	<p>P56 Saeed Rahmanian (Universiti Putra Malaysia, Malaysia) “Synthesis of Carbon Nanotubes on Carbon Fiber Through Coating of Nano-Iron Oxide Particles”</p>	<p>P57 Najwa Surani (Universiti Malaya, Malaysia) “Influence of RF Magnetron Sputtering Pressure on the Optical, Electrical and Structural Properties of Indium Tin Oxide Nanorods”</p>
12:55-14:00	LUNCH		

	PERDANA HALL	GASING HALL	SERULING HALL
	Chairperson: Dr. Salina Muhamad	Chairperson: Mrs. Shafinaz Sobihana Sharifuddin	Chairperson: Mr. Mohamad Hafiz Mamat
14:00-14:30	INVITED LECTURE Prof. Datin Dr. Saadah Abdul Rahman (Universiti Malaya, Malaysia) “Integration of Zinc Oxide Nanostructures on Silicon Nanowires”	INVITED LECTURE Dr. Daniel Chua (National University of Singapore, Singapore) “Carbon nanotube, graphene and hybrid carbon-based electron emitters”	INVITED LECTURE Prof. Dr. Sinin Hamdan (Universiti Malaysia Sarawak, Malaysia) “The Influence of Nano Clay on Wood Polymer Composite and Its Impact on Dynamic Mechanical Thermal Properties”
14:30-14:50	P58 Rafidah Ahmad (University of Southampton, Malaysia Campus) “Characterization of MgZnO Thin Film for 1 GHz MMIC Applications”	P59 Z. Abdin Shipon (Universiti Malaya, Malaysia) “Nanoparticle enhanced ionic liquids (NEILS) as heat transfer fluid for Flat Plate Solar Collector”	P60 Lim Ying Chin (Universiti Teknologi MARA, Malaysia) “Effect of Fluoride Concentration on the Formation and Photoelectrochemical Response of Titania Nanotubes Formed in Ethylene Glycol”
14:50-15:10	P61 Md. Shamimul Haque Choudhury (Bangladesh University of Engineering & Technology) “Effect of Dispersion Time on The Removal of Escherichia coli Using Multiwall Carbon Nanotube”	P62 Samira Bagheri (Universiti Malaya, Malaysia) “Green Synthesis of Highly Conductive Graphene Nanosheets”	P63 Riyaz Ahmad Mohamed Ali (Universiti Tun Hussein Onn Malaysia, Malaysia) “Investigation on Titanium and Titanium Dioxide Films Fabrication Processes in Magnetron Sputtering using Optical Spectroscopy Technique”
15:10-15:30	P64 Nor Aina Che Manaf (University Teknologi MARA, Malaysia) “Optimized Nano-slot Silicon Waveguide Structures for Optical Sensing Applications”	P65 Bidita Binte Salahuddin (Universiti Putra Malaysia, Malaysia) “Emission Characteristics of Water in Diesel Nanoemulsions in Diesel Engine”	P66 Muhammad Safwan Bin Hamzah (University Sains Malaysia, Malaysia) “Melt Flow Index and Flammability of Polypropylene/Ethylene Propylene Diene Monomer Nanocomposites Insulators”

15:30-15:50	<p>P67 Dr. Alawi Sulaiman (Universiti Teknologi MARA, Malaysia) “Physico-chemical and Morphology Changes of Sungai Sayong Kaolinite Clay Treated with Sulphuric Acid for Enzyme Immobilization Study”</p>	<p>P68 Syahida Suhaimi (Universiti Teknologi Malaysia, Malaysia) “Analysis of Vapor–Liquid–Solid Mechanism in Au-Assisted ZnO Nanowire Growth”</p>	<p>P69 Nurul Fasihah Mohd Suhaimi (Universiti Teknologi MARA, Malaysia) “Hybrid Er³⁺ Doped SiO₂-ZrO₂ Inorganic Composites Nanotubes Via Electrospinning Technique”</p>
15:50-16:10	<p>P70 Md. Rakibul Hasan (Universiti of Malaya, Malaysia) “Property Enhancement of Graphene-Titania Nano-composite Photocatalyst”</p>	<p>P71 Fatehah Mohd Omar (Universiti of Geneva, Switzerland) “Aggregation and Zeta Potential of ZnO Nanoparticles in Aqueous Environments: Influence of pH and Adsorption of Humic Acid”</p>	<p>P72 Dr. Arniza Ghazali (Universiti Sains Malaysia, Malaysia) “Nano-fibre Network Rooted from the Alkaline Peroxide Treatment of Oil Palm Empty Fruit Bunches”</p>
16:10-16:30	<p>P73 Srivalli Chellvarajoo (Universiti Sains Malaysia, Malaysia) “Simulation Study on the Production of Nano-sized Materials at Mixing Stage”</p>	<p>P74 Shahrul A. B. Ariffin (Universiti Malaysia Perlis, Malaysia) “Fabrication of Nanostructure Based Biosensor for Biomolecules Detection”</p>	<p>P75 Shaharin Fadzli A. Rahman (Universiti Teknologi Malaysia, Malaysia) “Few-Layer Graphene Synthesized from Palm Oil by Thermal Chemical Vapor Deposition with Flash Cooling Technique”</p>
16:30-16:50	<p>P76 Tahsin Morshed (Universiti Teknologi Malaysia, Malaysia) “Formation of Germanium-on-Insulator Structure on Silicon Platform by utilizing Graphene as a Buffer Layer”</p>	<p>P77 Ayib Rosdi Zainun (Universiti Malaysia Pahang, Malaysia) “Effect of Chelating Agent to the Properties of Nanostructured Copper (I) Iodide (CuI) Thin Film”</p>	<p>P78 Sodipo Bashiru Kayode (Universiti Sains Malaysia, Malaysia) “Synthesis and Sonication Effects on Zeta Potential of Silica Coated Superparamagnetic Iron Oxide Nanoparticles”</p>
16:50-17:00	BREAK		
17:00-18:30	POSTER SESSION 2 PO81 – PO180 (Perdana Hall) & CLOSING CEREMONY		

MARCH 4, 2013 (Monday)**TOUR DE KUALA LUMPUR AND PUTRAJAYA**

09:00	Depart from Shah Alam (UiTM & Grand Bluewave Hotel)
11:00	Arrived at Menara Kuala Lumpur
13.30	Depart to Putrajaya
16:00	End of Programme