# Wednesday, 20th April

16.00 - 19.00	Registration				
	The Equatorial Hotel, Penang, Malaysia				
	Executive Boardroom Foyer (G Level)				

# Thursday, 21<sup>st</sup> April

8.00 - 8.30	Registration: Merbah Foyer (LG Level)					
8.30 - 9.00		Opening Session: Grand Ballroom 1 (LG Level)				
9.00 - 9.45	Plen	ary Lecture : Nanostructured Materia	als for Biomedical and Energy Applica	tion – <b>Jackie Y. Ying</b> (Grand Ballroo	m 1)	
9.50 - 10.30	Key Not	Key Note Lecture: Saturable Absorbers in Optical Fiber Lasers for Short Pulse Generation - Harith Ahmad (Grand Ballroom 1)				
10.30 - 11.00			break: Grand Ballroom Foyer (LO			
11.00 - 11.30	MERBAH I	MERBAH II	MURAI I	MURAI II	PEKAKA	
	Advance Materials	Physical Chemistry	Organic & Inorganic Chemistry	Physics	Engineering	
11.00 - 11.30 (INVITED)	<b>Mohd Noor Ahmad</b> Plasmonic Nanoantenna for Cancerous Diagnosis	Sarani Zakaria Cellulose Magnetic Membrane via Carbamate Dissolution System with Microwave Assisted and Hydrothermal Treatment	Mohd Basyaruddin Mimetic Peptide Perspectives in Chemical and Biochemical Reactions	Mohd Zamani Zulkifli Advancedment of Functionality and Cavity Design of Fiber Laser	<b>Suzana Yusuf</b> Biomass Conversion to Fuel	
	(Universiti Malaysia Perlis)	(Universiti Kebangsaan Malaysia)	(Universiti Putra Malaysia)	(Universiti Malaya)	(Universiti Teknologi Petronas)	
11.40 - 12.00	Sze Mun Lam  Cr <sub>2</sub> O <sub>3</sub> Nanoparticles Anchored on ZnO Nanorods as Active Heterostructure Catalyst for Phenol Degradation	Norseyrihan Mohd Sohaimi An Effective Method for Determination of Paraben in Water based on Cloud Point Extraction and High Performance Liquid Chromatography	Norsakina Zurina Zulkifli Synthesis and Biological Studies of AroylThiourea and 2,2,6,6- tetramethyl-4-oxopiperidinium-4- chloro-3-nitrobenzoate	Mohd Zamir Pakhuruddin Enhanced Light Trapping in Laser Crystallised Silicon Thin Films on Glass with PECVD Intermediate Layer	Santi Khamtree Conjugate Heat Transfer in Rubberwood Drying by Hot Air	
12.00 - 12.20	Sarunya Klubnuan Investigation on The Structural and Optical Properties of Ni(OH) <sub>2</sub> /ZnO Nanocomposite Powders	Arbanah Muhammad The Mechanical Characteristic of Jute Fiber and Glass Fiber (Hybrid) As Reinforcement for Polymer Matrix Polyester in Hybrid Table	Amirul Hafizan Mohd Azmi Determination of Parabens from Water Samples using Greener Method of Magnetic Solid Phase Extraction.	Siti Rozaila Zahariman Thermoluminesence Response of Doped Collapsed Photonic Crystal Fibres Subjected to Photon Irradiation	Afizul Karim Synthesis and Characterization of $Sr_2Fe_{0.75}Ti_{0.25}MoO_{6\delta}$ as Anode for Solid Oxide Fuel Cell	
12.30 - 14.00		I	unch break: Nada Lama (LG Lev	el)		
14.00 - 14.20	Saurdi Ishak Photoanode of Aligned ZnO Nanorod Arrays Prepared at Different Solution Concentrations for Dye Synthesized Solar Cells	Eltefat Ahmadi Ferric Chloride Chlorination of Titanium Nitride at Low Temperature	Mohamed Kamel Hadj-Kali Deep Eutectic Solvents as Surfactants for Enhanced Oil Recovery	Wichita Kayaphan Effect Of Sintering Profile On The Properties Of Sn Modified BaTiO <sub>3</sub> Lead Free Piezoelectric Ceramics	<b>Brahim Safi</b> By Products of Seashells in Fluid Concretes: Replacement as an Addition and a Fine Aggregate	
14.20 - 14.40	Mohamed Syazwan Osman Tuning Morphology of Magnetic Nanoparticles Polymeric Microcapsules via Altering Polyethylene Glycol (PEG) Molecular Weight	Nutthakarn Phumkokrux Density and Viscosity Measurement of Aqueous Solution of 2(diethylamino)ethanal for Carbon Dioxide Capture	Emi Norzehan Mohamad Mahbob Synergism of Isopteropodine and Pteropodine with Antibiotics Against Selected Streptococci	Nasehah Syamin Sabri Effect of Mixed Metal Oxides Anode Modification on the Performance of Inverted Type Hybrid Organic Solar Cell based on ZnO/P3HT	Norhana Abdul Rahman Polyethylene Terephthalate (PET) and Rubber Crumb as Fine Aggregate in Concrete	
14.40 - 15.00	Lim Ying Chin Effect of Copper Concentration on the Morphology and Structural Properties of Copper Loaded Titania Nanotubes Prepared by Electrodeposition	<b>Niti Yongvanich</b> Sol-Gel Synthesis and Optical Properties of Malayaite Ceramic Color Pigments	Pakorn Asavaritikrai Interfacial Tension Measurement of Light Oil from Fang Oilfield by Using Alkaline Polymer Flooding	Siti Noraini Abu Bakar Enhancement Of Dye Sensitized Solar Cell Efficiency Using TiO <sub>2</sub> /NiO Nanocomposite Thin Film	Sallehan Ismail Experimental Study on Behavior of Polyolefin Fiber Reinforced Recycled Aggregate Concrete	
15.00 - 15.20	Jamal Jurait Synthesis and Characterization of PANI Fe <sub>0.5</sub> (Al <sub>0.5</sub> , Ni <sub>0.5</sub> , Mn <sub>0.5</sub> ) Nanocomposite Thin Films for Leptospires Biosensor	Lee Siang Chuah  Damage free separation of GaN- based thin films from Al <sub>2</sub> O <sub>3</sub> substrates	<b>Keat Khim Ong</b> Kinetics Study of Nickel (II) Ions Sorption by Thermally Treated Rice Husk	<b>Ishak Annuar</b> Nitrogen Doped Amorphous Carbon Solar Cells from Reneawble Palm Oil Precursor	Nikolai Panov The Influence of Shungite Nanopowder Modificator on Water Thickness Swelling and Water Absorption of Threeply Particle Board	

15.20 - 15.40	Hatika Kaco Cellulose Membrane Embedded Magnetite nanoparticles: Effects of agnetite Content	Kreangkrai Maneeintr Preliminary Study on Carbon Dioxide Geological Storage in Depleted Oil Reservoir in Fang Oil Field, Thailand	Nazlina Zulbadli Hydrodistillation of Orange Essential Oil: Kinetic Study and Chemical Composition	Jin Chung Sin Preparation of Neodymium Doped ZnO Hierarchical Micro/Nanospheres with Enhanced Photocatalytic Activity under Fluorescent Light Irradiation	Muhammad Shafiq Mat Shayuti Mechanical Properties and Morphology of Polypropylene/ Polycarbonate/Polypropylenegraft maleic anhydride Blends
15.40 - 16.00	Mikita Marus Dependence of Opto-Electronic Performance of NanoPatterned Metallic Layers on Various Materials and Configurations	Sharifah Nafisah Syed Ismail Synthesis and Characterization of Acrylated Epoxidized Palm Oil for UV Cured Coatings	Khaled Alkadi Antiglycation and Antioxidant potential of Novel imidazo[4,5- b]pyridine benzohydrazones	<b>Nur Azmina</b> Aluminium Doped Zinc Oxide Grown on Sand for Photocatalytic Application	Tawat Chanadee Influence of the Milling Time of Natural Sand on the Synthesizing SiSiC Composite Powder by Self- Propagating High Temperature Synthesis
16.00 - 16.20	Nurul Izrini Ikhsan A Glassy Carbon Electrode Modified With Reduced Graphene Oxide Supported Silver Nanoparticles For Selective Electrochemical Detection Of 4- Nitrophenol	<b>Rozaina Saleh</b> Synthesis, Characterization and Catalytic Activity of Modified Zn- Alumina Towards Knoevenagel Reaction	Onchanokjuntarasakul Evaluation of Stability and Viscosity Measurement of Light Oil and Its Emulsion from Fang Oilfield in Thailand	Nur Syazrin Amalina Abdullah The Effect of pH and Catalyst Load on the Photocatalytic Performance of ZnO/TiO <sub>2</sub> /N under Visible Light Exposure for Phenol Degradation	Mark Rigel Ali Effect of Thermal Aging on Hardness and Tensile Fracture of Natural Rubber Composites based on Silica and Modified/Raw Bentonite Filler System
16.00 - 16.30	Tea break : Merbah & Murai Foyer (LG Level)				
16.30 - 16.50	Wei Ming Yeoh Optimization of Reaction Condition for The Production of Carbon Nanotubes Using Continuous Rotary Reactor System	Munirah Onn Green Natural Rubber Flooring from Cured EPDM Waste Reinforcement	Nur Amina Zainal Design, Synthesis Of Functional Supramolecule By Self-Assembly OF Dimeric (Zn <sup>2+</sup> - Cyclen) Complexes, Organic Anion and Metal Ions In Aqueous Solution	<b>Norhidayah Hashim</b> Quantitative Ultrasound Analysis for Classification of Cyst and Solid Benign Breast Abnormalities	Ng Kei Hoa Influence of Silver (Ag) on the Properties Of NiOSDC Carbonates (NiOSDCC) Composite Anodes for Low Temperature Solid Oxide Fuel Cell
16.50 - 17.10	Nurul Aimi Binti Zakaria Growth Mechanism Of Silicon Oxide Nanowires Synthesized In a Carbothermal Chemical Vapor Deposition Reactor	Razif Muhammed Nordin The Effect of Grey Oil Palm Ash/Carbon Black on Cure Characteristic and Tensile Properties of Ethylene Propylene Diene Monomer/Styrene Butadiene Rubber Composites	Mohd Fariduddin Mohd Nowowi Optimization On Coliquefaction Of Mukah Balingian Subbituminious Malaysian Coal and Jatropha Curcas Seeds Using Response Surface Morphology	Siti Aisyah Ibrahim Characterization of Annealing temperatures and Plasma Treatment for Surface Functionalization of Reduced Graphene Oxide Anodic Films for Biophotovoltaic Applications	Phairote Sungkhaphaitoon Effect of Indium on Microstructural and Mechanical Properties of Sn <sub>3.0</sub> Ag <sub>0.5</sub> Cu <sub>x</sub> In Solder Alloys
17.10 - 17.30	Safwat Yahya Fabrication and Characterization of Activated Carbon From Swamp Taro Stalk Using H <sub>3</sub> PO <sub>4</sub> Activation	Tanayut Ketnak Color Stability of Al(Zn,Cr) <sub>2</sub> O <sub>4</sub> Spinel Pigments in Different Glazes	Ramlah Abd Rashid FeCl <sub>3</sub> Activated Carbon Developed From Coconut Leaves: Characterization and Application for Methylene Blue Removal	<b>Kim Ho Yeap</b> Analysis of Offset Antennas in Radio Telescopes	Mohammad Hossein Mahdavifard Effect of Aging on Mechanical Properties of SnCuFeBi Solder Alloy
18.00 - 19.30	Cocktail Reception : Grand Ballroom Foyer (LG Level)				
19.30 - 23.00	Dinner - Opening and Closing Ceremony Grand Ballroom 1 & 2 (LG Level)				

8.30 - 9.00	Registration: Merbah Foyer (LG Level)				
9.00 - 9.45	Plenary Lectur			red silicon – <b>Nicolas H. Voelcker</b> (G	
9.50 - 10.30	Key Note Lecture: Green Synthesis Strategies and Advanced Applications of Nanosized Zeolites - Ng Eng Poh (Grand Ballroom 1)				
10.30 - 11.00		Coffe	ee break: Grand Ballroom Foyer (I	LG Level)	
11.00 - 11.30	MERBAH I	MERBAH II	MURAI I	MURAI II	PEKAKA
	Advance Materials	Physical Chemistry	Organic & Inorganic Chemistry	Physics	Engineering
11.00 - 11.20	Y. AlDouri Cu <sub>2</sub> Zn <sub>1-x</sub> Cd <sub>x</sub> SnS <sub>4</sub> Quinternary Alloys Nanostructures Deposited on Porous Silicon by Sol– Gel Spin Coating Technique	<b>Abdul Hadi Mahmud</b> Synthesizing and Characterization of Hybrid Anodic Aluminium Oxide/ Gold Nanoparticles	Noorashikin Mohd Salleh A Green and Efficient Method for the Preconcentration and Determination of Methylphenol in Water Sample by Cloud Point Extraction Coupled with High Performance Liquid Chromatography	Zaahidah 'Atiqah Binti Mohiju The Effect Of Electron Irradiation On Transition Temperature And Mechanical Properties Of Nanosize MgO Added Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> (Bi2212) Superconductor Ceramics	Abdullah Abdul Samat Synthesis and Characterization of Lanthanum Strontium Cobaltite Powder using a Combined Chemical Agent for Proton Conducting SOFC
11.20 - 11.40	Jeyashelly Andas Sol-gel Synthesis of FeCo Supported Silica Nanoparticles for the Catalytic Oxidation of Phenol	Anisah Shafiqah Habiballah La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> (LSCF64) Perovskite Nanotubes via Template Synthesis	Nurul Asyikin Mazlan Role of Dimethyldioctadecyl Ammonium Chloride (DiDAC) as Cationic Surfactant on Thermal Decomposition and Phase Formation of Ba(Ce,Zr)O <sub>3</sub> Ceramic Powders	Farhanini Yusoff The perovskite Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> – MWCNT Modified Glassy Carbon Electrode- Its Characterization and Capacity in Oxygen Reduction Reaction	Ismariza Ismail Evaluation of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> as a Potential Cathode for Proton Conducting Solid Oxide Fuel Cell
11.40 - 12.10	Nura Liman Chiromawa Design and Fabrication of PMMA/SiO <sub>2</sub> Micro Array of Binary Fresnel lenses by Electron Beam Lithography	Shazana Mohd Senari Characterization of NiO-BCZY Composite Anode Prepared by One Step Sol-Gel Method	<b>Nurul Wahida Othman</b> Electrical Properties of Ba(Ce,Zr)O <sub>3</sub> Solid Solution Prepared by a Two Step Sintering Method	Suazlina Mohd Ali The Effect of Substitution of Fe on Critical Current Density and Flux Pinning Properties of (Bi, Pb)2223 Superconductor	Wan Zuliana Wan Zulkifli Characterization of Y³+doped BaZrO₃ By High Pressure– High Temperature (HPHT) Batch Wise Reactor System Using Supercritical Ethanol
12.30 - 14.00					
14.00 - 14.20	Amirah Salleh Intermetallic and Joint Strength Study of Sn <sub>9</sub> Zn Solder with Addition of Carbon Nanotube under Liquid State Aging	Nurul Hazwani Hanib Effect of Heat Treatment on the Surface Morphology on NaOH and KOH Treated Ti6Al4V	Siti Nadia Kinetics of Free Carbonic Anhydrase in Conversion of p-Nitrophenyl Acetate into p-Nitrophenol	Najihah Mat Kiar Pyroelectric Properties Of Alternate- Layer Langmuir-Blodgett (Lb) Films	Siti Haryani Tomadi Effect of Cutting Parameters on Surface Roughness in End Milling of AlSi/AlN Metal Matrix Composite
14.20 - 14.40	Shafinas Abdullah Preparation and Characterization of Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Halloysite Nanotubes (HNTs) Nanocomposites	<b>Nik Norziehana Che Isa</b> Cyclic Voltammetric Study of Stainless Steel Substrate in Acidic CuSO <sub>4</sub> Solution	Northaqifah Hasna Mohamed Khir Steroid Focusing by Micelle Collapse in Capillary Electrophoretic Separation	Nor Faizah Jamal The Effect of Gamma Radiation Doses on Mechanical Properties of Bi2212 Superconductor	Sheikh Abdul Rezan Mathematical Modeling of Hydrogen Reduction of Titania Using MATLAB
14.40 - 15.00	Muhammad Zahiruddin Ramli Characterisation and Activity of CuZnAIZr/ ZSM5 Hybrid Catalysts for CO <sub>2</sub> Hydrogenation Reaction: Effect of the Improvised Preparation Technique	Soon Kong Yong Sorption of Lead From Aqueous System Using Cocoa Pod Husk Biochar: Kinetic and Isotherm Studies	Nurul Janah Yunos Physicochemical Properties and Enhanced Antioxidant activity of Arenga Pinnata Sap using Vacuum Evaporation	Y. Al-Douri Enhancement of Nano and Micro Photonics Lithium Niobate Via Spin Coating Technique for Optical Waveguide Applications	Mohamad Sazali Said Optimization of Material Removal rate (MRR) Coated and Uncoated Carbide Cutting Tool in Milling Process of MMC (AlSi/ 10%AIN)
15.00 - 15.20	Adibah Mohd Noor Carbon Material Derived from Waste Paper as Carbon Source and Its Potential as Electrode	Norshafadzila Mohammad Naim Conducting Polymer Based Sensor Embedded with Bimetallic NiAg for Detection of E. Coli in Water	Rafidah Aida Ramli The Textural Characteristics of Jackfruit Pulps Treated with Calcium	Ahmad Nazrul Rosli The Band Structure of a Rare Earth Element of Promethium (III) Oxide (Pm <sub>2</sub> O <sub>3</sub> ) Calculated using Density Functional Theory.	Fairosidi Idrus Experimental Investigation on the Effects of Heat Load and Orientation on Thermal Performance of Miniature Cylindrical Heat Pipes of Sintered Powder Wick Structure

15.20 - 15.40	Muhammad Nazmin Mohd Yusoff Dyes Colour Removal by Enhanced PolyetherImide (PEI) Based Surfactant Nanofiltration Membrane	Ashimkhan Kanayev Microbiological Neutralization of Heap Leaching Waste from Cyanide and Thiocyanide	Ezan Suhailah Mohd Kassim Synergistic Effect of Hydroquinone on the Inhibition Efficiency of Pyrrole and Pyridine in Static Environment	Noorain Purhanudin Correlation of RF Power and Film Properties on the Performance of Humidity Sensing of aCNx	Mohamad Sazali Said The Effect of Machining Condition on Surface Roughness of Metal Matrix Composite (MMC) ALSI/ 10% ALN in Twist Drill	
15.40 - 16.00	Adam Khan Fabrication and Investigation of Graphene based Pressure Sensor	Norakmalah Mohd Zawawi Effect of KOH and H <sub>2</sub> SO <sub>4</sub> Activation Agent in Microwave Ultrasonic Activation Process of Activated Carbon	Nur Shahidah Ab Aziz The Effect of Storage Condition on the Mineral and Lactose content in Goat's Milk	Azliana Ramli Characterization of Organic- Inorganic Perovskites Based on Reaction of Aminomethyl Pyridine	Julia Andrew Crude Palm oil Loss Study in Conventional, Compact Modular System and Continuous Sterilization Technologies: A Case Study for FELDA Palm Oil Mills	
16.00 - 16.30	Tea break : Merbah & Murai Foyer (LG Level)					
16.30 - 16.50	Mohd Shaiful Sajab Graphene Oxıde Encapsulated nn Regenerated Cellulose Beads	Clare Garing Experimental and Modeling Study on the Effect of Carbon Black Substitution with Modified Bentonite on the Tensile Properties of Natural Rubber Composites	Putri Shareen Rosman The Antibacterial Activity and Mode of Action of Experimental Inhibitor	Nurul Atikah Mohd Isa Growth And Characterization Of AlGaN Thin Films Via Sol-gel Spin Coating Method	Ahmad Anas Nagoor Gunny Effect Of Structural Changes Of Lignocellulose Material Upon Pre- Treatment Using Green Solvents	
16.50 - 17.10	Joelle C.W. Mah Formation and Thermal Decomposition Behavior of Sol- Gel Derived Cu <sub>0.2</sub> Mn <sub>1.4</sub> Co <sub>1.4</sub> O <sub>4</sub> Spinels	Zaidi Ab Ghani Optimization of Preparation Conditions for Activated Carbon from Musa Acuminata PseudoStem: A New Precursor Using Box–Behnken Design	Masila Noraini Factors Affecting Production of Biogas from Organic Solid Waste via Anaerobic Digestion Process: A Review	Zahidah Othman Al-Nanostructured Film Coating on Mild Steel surface for Corrosion Protection	Mustafa Anwar Effect of Sintering Temperature on Properties of Sm <sup>3+</sup> , Ba <sup>2+</sup> , Co- Doped Ceria electrolyte for Solid Oxide Fuel Cells	
17.10 - 17.30	Nurul Izaati Mohd Anuar The effect of pH on the particle size of Ag-Co Nanoparticles supported on Silica Rice Husk	Roz Azinur Che Lamin Application Of Response Surface Methodology (RSM) On The Optimization Of High Amylose Starch Production From Sago Starch Using Pullulanase	Mohd Fariduddin Mohd Nowowi Preliminary Study on Co- liquefaction and Synergistic Effects of Mukah Balingian Subbituminous Malaysian Coal and Jatropha Curcas Seeds	Lan Ching Sim g-C3N4-Sentisized TiO <sub>2</sub> Nanotube Arrays for Improved Photocatalytic Activity	Muhamed Ali Shaikh Abdul Kader Abdul Hameed Microwave-assisted Synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> as Cathode Material for Solid Oxide Fuel Cell	

# **COMMITTEE**

## **Patron**

## Prof Emeritus Dato' Dr Hassan Said

Vice Chancellor of Universiti Teknologi MARA

#### **Advisor**

Dr Shaiful Annuar Khalid

# Main Chairman

Assoc. Prof. Dr. Mohd Azlan Mohd Ishak

#### Chairman

Dr. Ahmad Nizan Mat Noor

#### **Director**

Dr. Jeyashelly Andas

## **Committee Members**

- Dr. Abdul Mutalib Md Jani
- Dr. Tay Chia Chay
- Dr. Zuliahani Ahmad
- En. Syamaizar Mustafa
- Pn. Hanani Yazid
- Pn. Nor Mazlina Abdul Wahab
- Pn. Salamiah Zakaria
- Pn. Syarifah Nursyimi Azlina Syed Ismail
- En. Muhammad Safwat Mohammed Yahya