

SCIENTIFIC PROGRAMME

Date: 11 December 2017 (Monday) Evening (8.30pm – 9.30pm)

Time	Programme
8.30-9.30 pm	Registration (Outside Grand Ballroom, Level 7)

Date: 12 December 2017 (Tuesday) Morning (8.30am - 1.15pm)

Time	Programme
8.00-8.30	Registration (Outside Grand Ballroom, Level 7)
8.30-9.15	Plenary 1: Datuk Manimaran Anthony MARUWA (Malaysia) Sdn. Bhd. (Gold Sponsor) <i>Positive Research Collaboration Between University and Industry Towards Enhancement of Technology</i> Chair: Prof Dr Ahmad Fauzi Mohd Noor (Grand Ballroom, Level 7)
9.15-10.00	WORKSHOP by HISTOCENTER (M) Sdn. Bhd. (Gold Sponsor) Dr. Binjie Wang <i>In-situ Experiment for TEM</i> Chair: AP Dr Zainovia Lockman (Grand Ballroom, Level 7)
10.00-10.10	Photography Session (Grand Ballroom, Level 7)

10.10-10.30	Refreshments & poster session 1					
Break Out Session	Symposium A: Biomaterials Chair: Prof. Dr. Ahmad Fauzi Mohd Noor (Grand Ballroom, Level 7)		Symposium B: Synthesis of Materials Chair: AP Dr Khairunisak Abdul Razak (The Olive, Level 6)		Symposium C: Microscopy and Biology Chair: AP Dr. Durriyyah Sharifah Hasan Adli (Olive 6 & 7, Level 6)	
	10.30-11.00	Keynote 1: Masakazu Kawashita (Tohoku University) <i>Fabrication of porous titania microspheres for transcatheter arterial chemoembolization</i>	10.30-11.00	Keynote 3: Eiichiro Matsubara (Kyoto University) <i>Fabrication of Metallic Nanowire and Cellulose Nanofiber Composites</i>	10.30-11.00	Keynote 4: Asmat Salim (Dr. Panjwani Center for Molecular Medicine and Drug Research) <i>Regeneration of Cardiac Tissue by Mesenchymal Stem Cells Following Myocardial Infarction in Rats</i>
	11.00-11.30	Keynote 2: Mohd Hamdi Abd Shukor (Universiti Malaya) <i>A journey in developing functional bioceramic coatings via Physical Vapor Deposition systems</i>	11.00-11.15	Oral 4: Mohd Shahadan Mohd Suan (Universiti Teknikal Malaysia Melaka) <i>Structural and electrical properties of Na_xCoO_2 thermoelectric synthesized via citric-nitrate auto combustion reaction</i>	11.00-11.30	Keynote 5: Prof. Dato Dr. Tengku Azmi Tengku Ibrahim (Universiti Putra Malaysia) <i>Formation of Secretory Granules: Could It Arise From The Rough Endoplasmic Reticulum?</i>
	11.30-12.00	Invited 1 (Bronze): Dr Kee Yeh Yee (WinTech Nano-Technology Services Pte. Ltd.)	11.15-11.30	Oral 5: Fasih Ud Din (University of Education, Lahore) <i>Conversion of YBCO Pellet into single layer thin film using Pulse Laser Deposition</i>	11.30-11.45	Oral 9: Nurul Kabir (University of Malaya) <i>Natural products for the treatment and prevention of diabetes</i>
	12.00-12.30	Invited 2: Abu Bakar Sulong (Universiti Kebangsaan Malaysia) <i>Fabrication of Porous Titanium-Hydroxyapatite Composite via</i>	11.30-11.45	Oral 6: Halina Misran (Universiti Tenaga Nasional) <i>Room Temperature Synthesis and Characterizations of MOF-</i>	11.45-12.00	Oral 10: Pornchai Pornpanom (Kasetsart University) <i>Cytochemistry and Morphology of Blood Cells in White-bellied</i>

		<i>Powder Metallurgy with Powder Space Holder Method</i>		<i>5 and ZIF-8 at Water-Fatty Alcohols Interfaces</i>		<i>Sea-Eagle (Haliaeetus leucogaster) of Thailand</i>
	12.30-12.45	Oral 1: Bazli Hilmi (Universiti Sains Malaysia) <i><u>New Eco Friendly Starch Based Denture Adhesive: Mechanical and Toxicity Properties</u></i>	11.45-12.15	Invited 3 (Bronze): Dr. Tetsuo Oikawa (JEOL (Malaysia) Sdn. Bhd.) <i>Elemental analysis with High-Efficiency Analytical TEM/STEM</i>	12.15-12.30	Oral 11: Chaleow Salakij (Kasetsart University) <i>Ultrastructural and molecular characterization of Plasmodium sp. and Trypanosoma corvi in an Asian barred owlet</i>
	12.45-1.00	Oral 2: Tram Nguyen Xuan Thanh (Ho Chi Minh City University of Technology) <i>Preparation of Porous active Calcite Block from Gypsum precursor</i>	12.15-12.30	Oral 7: Amin Eisazadeh Otaghsaraei (Thammasat University) <i>Geotechnical Properties of Fly Ash Admixed Red Gravelly Soil</i>	12.30-12.45	Oral 12: Mohd Shukri Baba (International Islamic University Malaysia) <i>Antiparasitic Assessment of Allicin Against the Growth and Survival of Haemoflagellate Protozoa, Trypanosoma Evansi in MICE</i>
	12.45-1.00	Oral 3: Ismail Zainol (Universiti Pendidikan Sultan Idris) <i>Extraction of Nano Hydroxyapatite from Waste Bovine Bone Using Alkaline Digestion Method</i>	12.30-12.45	Oral 8: Jamaliah Idris (Universiti Teknologi Malaysia) <i>Effect of rare earth element Ce, and Pr addition on grain refinement of AA5083 alloy</i>	12.45-1.00	Oral 13: Durriyyah Sharifah Hasan Adli (Universiti Malaya) <i>Neuronal Cell Count and Morphometric Study of Hippocampal CA1 Pyramidal Neurons after Chronic Nigella Sativa Administration</i>
1.00-2.15	Lunch and Solat					

Date: 12 December 2017 (Tuesday) Afternoon (02.15 pm – 05.45 pm)

Time	Programme					
2.15-3.00	Ametek Singapore Pte Ltd (Silver Sponsor) Chair: AP Dr Zainovia Lockman (Grand Ballroom, Level 7)					
Break Out Session	Symposium D: Structural Materials Chair: AP Dr Halina Misran (The Olive, Level 6)		Symposium E: Polymer Chair: AP Dr Yern Chee Ching (Olive 6 & 7, Level 6)		Symposium F: Life Science Chair: Dr. Che Nor Aiza Jaafar (Olive 8, Level 6)	
	Time	Presenter	Time	Presenter	Time	Presenter
	3.00-3.30	Invited 4 (Bronze): Joe Boey (Oxford Instruments Pte Ltd) <i>New way of using EDS – Real Time Chemical Imaging</i>	3.00-3.15	Oral 16: Muhammad Afiq Misman (Universiti Sains Malaysia) <i>The Effect of Sago Starch Filler Dispersion preparation on the Bio-degradation Properties of Natural rubber latex Films</i>	3.00-3.15	Oral 18: Adisri Charoenpanich (Silpakorn University) <i>Fluorescent imaging of metal ion in living cellular system</i>
	3.30-3.45	Oral 14: Saisamorn Niyomsoan (Burapha University) <i>Effect of indium in Cu-Zn-Al shape memory alloys</i>	3.15-3.45	Invited 5 (Bronze): Alex Wong (Bruker Singapore) <i>Trace Element Analysis using Micro-XRF on SEM</i>	3.15-3.30	Oral 19: Muhammad Shoaib Khan (Universiti Putra Malaysia) <i>Ultrastructural Assessment of Skin Grafts Cryopreserved in a Helix Antarctic Yeast Oriented Anti-Freeze Peptide (Afp1m)</i>
	3.45-4.00	Oral 15: Rizamarhaiza Muda (University Tun Hussein Onn Malaysia) <i>The Effect of Sintering Temperatures on SiO₂ Derived from Rice Husk Ash and Nickel Oxide Foam by Slurry Technique</i>	3.45-4.00	Oral 17: Komkrisd Wongtimnoi (Burapha University) <i>Influence of thickness on microstructure and electromechanical properties of polyether-based thermoplastic polyurethane films prepared by solution casting</i>		
4.00 - 4.30	Refreshments & Poster Session 1					

Break Out Session	Symposium G: Structural Materials Chair: AP Dr Ismail Zainol (The Olive, Level 6)		Symposium H: Polymer Chair: Prof. Dr. Che Husna Azhari (Olive 6 & 7, Level 6)		Symposium I: Mineral Resources Engineering Chair: AP Dr Syed Fuad Syed Hashim & Dr. Suhaina Ismail (Olive 8, Level 6)	
	Time	Presenter	Time	Presenter	Time	Presenter
	4.30-5.00	Keynote 6: HiroMi Miura (Toyohashi University of Technology) <i>Evolution of Hetero-Nano Structure and Mechanical Properties of Heavily Cold-Rolled Stainless steels</i>	4.30-5.00	Keynote 7: Atsunori Matsuda (Toyohashi University of Technology) <i>Advanced Materials for Next Generation Power Sources</i>	4.30-4.45	Oral 26: Syed Fuad Syed Hashim (Universiti Sains Malaysia) <i>Effect of grinding aids in cement grinding</i>
	5.00-5.15	Oral 20: Mohd Aidil Shah Rahim (Universiti Teknikal Malaysia Melaka) <i>Performance Evaluation and Microstructural Characteristics of Improved Tool Steel Alloy XW42 By WEDM</i>	5.00-5.15	Oral 23: Orathai Boondamnoen (Chulalongkorn University) <i>Comparison of sample preparation method of Blends based on Latex Waste</i>	4.45-5.00	Oral 27: Shaik Abdul Rahman Shaik Abdul Wahab (Universiti Sains Malaysia) <i>Mineralogical Characterization and Determination of Refractoriness of Malaysian Gold Ore</i>
	5.15-5.30	Oral 21: Phacharaphon Tunthawiroon (King Mongkut's Institute of Technology Ladkrabang) <i>Surface Characterization of Si-doped Co-Cr-Mo alloys oxidized at high temperature</i>	5.15-5.30	Oral 24: Siti Nor Din (Universiti Sains Malaysia) <i>Fabrication and characterization of superhydrophobic plasticized polyvinyl chloride filled with stearic acid coated calcium carbonate</i>	5.00-5.15	Oral 28: Abdul Mateen (Institute of Space Technology) <i>Minerals Potential of KPK & FATA and their impact on society</i>
	5.30-5.45	Oral 22: Sanjith Udayakumar (Universiti Sains Malaysia)	5.30-5.45	Oral 25: Che Nor Aiza Jaafar (Universiti Putra Malaysia)		

		<i>Formation of Titanium Hydride from the Reaction Between Magnesium Hydride and Titanium Tetrachloride</i>		<i>Effect of Silica Fillers on Mechanical Properties of Epoxy/Kenaf Composites</i>		
8.00 pm	Conference Dinner & Official Opening Ceremony (Grand Ballroom, Level 7)					

13 December 2017 (Wednesday) – Morning (8.30 am – 01.00 pm)

Time	Programme					
8.30 - 9.15	<p align="center">Plenary 2: Prof. A. Matsumoto (Toyohashi University of Technology) <i>Gas adsorption on porous materials towards creation of sustainable society</i></p> <p align="center">Chair: Prof Noriyuki Kuwano (Grand Ballroom, Level 7)</p>					
Break Out Session	<p align="center">Symposium J: Microscopy & Spectroscopy used in Materials Science Chair: AP Dr Patthi Hussain (Grand Ballroom, Level 7)</p>		<p align="center">Symposium K: Materials for Energy & Biomedical Chair: Prof Ir Dr Cheong Kuan Yew (The Olive, Level 6)</p>		<p align="center">Symposium L: Microscopy in Life Science and Biology Chair: Dr. Mohd Shukri Baba (Olive 6 & 7, Level 6)</p>	
	9.15-9.30	<p>Oral 29: Noriyuki Kuwano (Universiti Teknologi Malaysia)</p> <p><i>Electron Microscopy Determination of Crystallographic Polarity of Aluminum Nitride Thin Films</i></p>	9.15-9.30	<p>Oral 33: Pisutti Dararutana (Royal Thai Army Chemical Department)</p> <p><i>Elemental Distribution of the Greenish-Thai Decorative Glass</i></p>	9.15-9.45	<p>Keynote 8: Shamsul Bahri Abdul Razak (Universiti Malaysia Terengganu)</p> <p><i>Unravel the mystery of stingless bees using microscopy</i></p>
	9.30-9.45	<p>Oral 30: Alberto Jr Amoroso (University of the Philippines)</p> <p><i>Investigation of The Hydrophobicity of Pdms-Nanosilica Coating from Electrophoretic Deposition on 316 Stainless Steel Substrate</i></p>	9.30-9.45	<p>Oral 34: Kien Phamtrung (Ho Chi Minh City University of Technology)</p> <p><i>Preparation of hydroxyapatite by hydrothermal treatment as biomaterials</i></p>	9.45-10.00	<p>Oral 37: Zubaidah Abu Hassan (Universiti Malaya)</p> <p><i>Ultrastructural Observation of three Stingless Bees species of Borneo</i></p>

	9.45-10.00	Oral 31: Torranin Chairuangstri (Chiang Mai University) Microanalysis of Multiple Carbides in Cr-Mo White Cast Irons	9.45-10.00	Oral 35: Muhammad Iqbal Mazlam (Universiti Sains Malaysia) Fabrication and Characterisation of Gelatine/Hydroxyapatite Porous Scaffold	10.00-10.15	Oral 38: Fatin Farhana Abd Hadi Kamil (Universiti Malaysia Terengganu) Morphological features of Rigidoporus microporus isolated from infected Malaysian recommended rubber clones
	10.00-10.15	Oral 32: Mohamad Mustaqim Rosli (Universiti Kebangsaan Malaysia) Rubber - Microalumina Particle Composite (ENRAM) using Electron Microscopy	10.00-10.15	Oral 36: Farrah Noor Ahmad (Universiti Teknologi MARA) Morphology and mechanical properties fabricated from Ti, Nb and HA by powder metallurgy method		
Refreshments & Poster Session 2						
10.45-12.45	FIELD MANAGEMENT MEETING (members only) (Olive 8)					
Break Out Session	Symposium M: Nanomaterials Chair: Dr Khatijah Aisha Yaacob (Grand Ballroom, Level 7)		Symposium N: Properties of Metals & Alloys Chair: Prof Md. Mujibur Rahman (The Olive, Level 6)		Symposium O: Biomaterials Chair: AP Dr Hasmaliza Mohamad (Olive 6 & 7, Level 6)	
	Time	Presenter	Time	Presenter	Time	Presenter
	10.45-11.15	Invited 6 (Bronze): Simon Fong (Crest NanoSolutions (Malaysia) Sdn Bhd) Nanoscale Mechanical Property Measurements in AFM Modes with Direct Force Control	10.45-11.15	Keynote 9: Masahiro Susa (Tokyo Institute of Technology) Thermophysical Properties and Characteristics Relevant to Sustainable Steelmaking Processes	10.45-11.15	Keynote 10: Radzali Othman (Universiti Teknikal Malaysia Melaka) Fine Ceramics–Perceptions, Contradictions or a Metamorphosis of Interpretations
	11.15-11.30	Oral 39: Martial Duchamp (MSE, NTU)	11.15-11.45	Invited 7 (Bronze): Carl Zeiss	11.15-11.30	Oral 51: Hossein Mohammadi (Universiti Sains Malaysia)

	<i>Operando transmission electron microscopy</i>		<i>Application of Multi-Dimensional Electron, Ion and X-ray Microscopy in Sample Analysis</i>		<i>Synthesis and characterization of akermanite by mechanical milling and subsequent heat treatment</i>
11.30-11.45	Oral 40: Luong Thi Quynh Anh (Ho Chi Minh City University of Technology) <i>The effect of heating temperature on microstructure and magnetic properties of Zn_{0.8}Ni_{0.2}Fe₂O₄ ferrite nanocrystals</i>	11.45-12.00	Oral 46: Arnon Lerdwongpaisan (Burapha University) <i>Investigation of burr hole defect and wearing out of cutting die in punching process</i>	11.30-11.45	Oral 52: Nazirah Rashid (Universiti Sains Malaysia) <i>The Effect of Alumina and Hydroxyapatite Content on Morphology and Mechanical Properties of Mg Hybrid Composite for Biodegradable Implants Materials</i>
11.45-12.00	Oral 41: Umira Asyikin Yusop (University Tun Hussein Onn Malaysia) <i>Properties of Nano Ceramic Powder BSCF-SDC Composite Cathode for Low Temperature Solid Oxide Fuel Cell (LT-SOFC)</i>	12.00-12.15	Oral 47: Chanchana Thanachayanont (National Metal and Materials Technology Centre) <i>Microscopic Characterization of Carrot Carbon Microspheres</i>	11.45-12.00	Oral 53: Cheng Shu Yen (Universiti Sains Malaysia) <i>Gel casting of β-TCP scaffolds: Effects of foaming time and polymer coating</i>
12.00-12.15	Oral 42: Subagja (Universiti Sains Malaysia) <i>The Synthesis of Hierarchical Porous Iron Oxide and Their Application for Cr(VI) Reduction</i>	12.15-12.30	Oral 48: Ayad Omran Abdalla (Universiti Teknologi Malaysia) <i>Microstructure and Fracture Analysis of New Ti-6Al Based Alloys with Iron (Fe) Addition as a Ternary Element</i>	12.00-12.15	Oral 54: Sharifah Aishah (Universiti Sains Malaysia) <i>Influence of MgO on Sol Gel Derived SiO₂-CaO-Na₂O-P₂O₅ Bioglass System</i>
12.15-12.30	Oral 43: Ye Zar Ni Htwe (Universiti Sains Malaysia) <i>Effect of sonication time on the production of graphene by electrochemical exfoliation method</i>	12.30-12.45	Oral 49: FarazilaYusof (Universiti Malaya) <i>Microstructure analysis of the Cu SAC305 Cu solders joints using low power ultrasonic reflows soldering</i>	12.15-12.30	Oral 55: Yanny Marliana Baba Ismail (Universiti Sains Malaysia) <i>The influence of scaffold designs on cell seeding efficiency in establishing a three-dimensional culture</i>

	12.30-12.45	Oral 44: Zhe Xi Lim (Universiti Sains Malaysia) <i>Naturally Occurring Aloe Vera Gel Thin Films for Sustainable Electronics</i>	12.45-1.00	Oral 50: Niskan E-Dan (Universiti Teknologi Petronas) <i>Pearlite transformation from ferrite phase by high temperature gas nitriding of duplex stainless steel</i>	12.30-12.45	Oral 56: Nafeesa Shukri (Universiti Sains Malaysia) <i>The influenced of different types of rubber on curing behaviour and dynamic properties of rubber compound</i>
	12.45-1.00	Oral 45: Pung Swee Yong (Universiti Sains Malaysia) <i>Effect of co-dopant on the phase structure and photoluminescence properties of Sr₂MgSi₂O₇: Eu²⁺ phosphors</i>			12.45-1.00	Oral 57: Khairul Arifah Saharudin (Universiti Sains Malaysia) <i>Improved hydrophobicity of polydimethylsiloxane (PDMS) coating with ZnO Nanostructures</i>
1.00- 2.15	Lunch and Solat					

Date: 13 December 2017 (Wednesday) – Afternoon (02.15 pm – 5.00 pm)

Time	Programme					
Break Out Session	Symposium P: Metal and Alloys Chair: AP Dr. Nurulakmal Mohd Sharif (Grand Ballroom, Level 7)		Symposium Q: Polymer & Composites Chair: AP Dr Azhar Abu Bakar (The Olive, Level 6)		Symposium R: Nanomaterials Chair: AP Dr. Pung Swee Yong (Olive 6 & 7, Level 6)	
	Time	Presenter	Time	Presenter	Time	Presenter
	2.15-2.30	Oral 58: Hamimah Abd.Rahman (Universiti Tun Hussein Onn Malaysia) <i>Electrophoretic Deposited LSCF-SDCc-Ag Cathode Coating On Ferritic Stainless Steel Interconnect for SOFC</i>	2.15-2.30	Oral 64: Mazliah Mazlan (Universiti Teknikal Malaysia Melaka) <i>Optimization of Formulation for Starch Modified Natural Rubber Composite by using Response Surface Methodology</i>	2.15-2.30	Oral 71: Suriani Ibrahim (Universiti Malaya) <i>Effect of synthesis conditions on preparation of nickel oxide nanoparticles via hydrothermal technique</i>

2.30-2.45	<p>Oral 59: Waraporn Piyawit (Suranaree University of Technology)</p> <p><i>Contributions of Self-Align Ag Precipitates to Hardening Effects of CuAgZr</i></p>	2.30-2.45	<p>Oral 65: Vu Anh Quang (Ho Chi Minh City University of Technology)</p> <p><i>Polyaniline-coated Porous Carbon Nanofibers as Efficient Hybrid Electrodes for Supercapacitors</i></p>	2.30-2.45	<p>Oral 72: Zainovia Lockman (Universiti Sains Malaysia)</p> <p><i>Tailoring Parameters to Produce Nanowires on Metal Surface via Surface Oxidation Process</i></p>
2.45-3.00	<p>Oral 60: Sunisa Khamsuk (Burapha University)</p> <p><i>Influence of pore size on the microstructure evolution and mechanical properties in porous aluminum</i></p>	2.45-3.00	<p>Oral 66: Ching Yern Chee (Universiti Malaya)</p> <p><i>Recycled Polypropylene Filled Bitumen For Waste Reduction</i></p>	2.45-3.00	<p>Oral 73: Mona Ebadi (Universiti Putra Malaysia)</p> <p><i>Iron oxide/polyethylene glycol/layered double hydroxide core shells nanoparticles for drug delivery</i></p>
3.00-3.15	<p>Oral 61: Md. Mujibur Rahman (Universiti Tenaga Nasional)</p> <p><i>Effect of Sintering Temperature and Holding Time to Final Characteristics of FeCrAl Powder Compacts Formed at Elevated Temperature through Die Compaction Method</i></p>	3.00-3.15	<p>Oral 67: Nguyen Vu Viet Linh (Ho Chi Minh City University of Technology)</p> <p><i>Fabrication of insulin loaded Polycaprolactone microparticles by electrospraying method for drug application</i></p>	3.00-3.15	<p>Oral 74: Syahriza Ismail (Universiti Teknikal Malaysia Melaka)</p> <p><i>Synthesis of α-Fe₂O₃ Nanowires/MWCNTs Composite for photocatalyst</i></p>
3.15-3.30	<p>Oral 62: Patthi Hussain (Universiti Teknologi Petronas)</p> <p><i>The influence of Nitrogen on the wear resistance of ferritic stainless steel</i></p>	3.15-3.30	<p>Oral 68: Khairul Iwani Karim (Universiti Teknikal Malaysia Melaka)</p> <p><i>Fatigue and Mechanical Properties of Graphene Nanoplatelets reinforced NR/EPDM nanocomposites</i></p>	3.15-3.30	<p>Oral 75: Myo Thuya Thein (Yangon Technological University)</p> <p><i>Processing Temperature dependent morphologies and Photocatalytic activity of ZnO nanorods</i></p>
3.30-3.45	<p>Oral 63: Azizan As'arry (Universiti Putra Malaysia)</p> <p><i>Behaviour of modified porous alumina using RHA as a pore modifier and aluminum as a reinforcement</i></p>	3.30-3.45	<p>Oral 69: Netnapa Eawwiboonthanakit (Universiti Sains Malaysia)</p> <p><i>Effects of molar ratios between Aniline and Surfactant in Synthesis of Polyaniline</i></p>	3.30-3.45	<p>Oral 76: Siti Noryasmin Jaffar (Universiti Teknologi Malaysia)</p> <p><i>Effect of Radio Frequency Power on the Morphology and Topography of the Deposited</i></p>

						<i>Yttria Stabilized Zirconia Thin Film</i>
			3.45-4.00	Oral 70: Pang Ai Ling (Universiti Sains Malaysia) <i>Soil Buried Linear Low Density Polyethylene/Poly (Vinyl Alcohol)/Kenaf (LLDPE/PVOH/KNF) Composites: Assessment of Tensile Properties and Morphological Feature</i>	3.45-4.00	Oral 77: Mohammad Lukman Yahaya (Universiti Sains Malaysia) <i>Development and evaluation of colloidal gold lateral flow immunoassays for detection of Escherichia coli O157 and Salmonella Typhi</i>
4.00 - 5.00	AUN/SEED-Net Secretariat Presentation & Closing and Award Ceremony (Grand Ballroom, Level 7)					