

## CONFERENCE PROGRAMME SCHEDULE

17 AUGUST 2018 (FRIDAY)

Time	Programme
1600 – 1800	Pre-Registration (Foyer)

18 AUGUST 2018 (SATURDAY)

Venue: Puteri Saadong 1	
0800 – 0900	Registration (Foyer)
0900 – 0930	<b>Recitation of Doa</b> <b>Welcoming address</b> <b>Dr. Muhammad Azwadi Sulaiman, Chairman of ICXRI 2018</b> <b>Speech</b> <b>Prof. Dr. Zainal Arifin Ahmad, Chairman of XAPP-MNS</b> <b>Speech and Officiating</b> <b>Prof. Dato' Dr. Ibrahim Che Omar, Deputy Vice Chancellor Research &amp; Innovation of Universiti Malaysia Kelantan</b>
<b>Session Chair: Assoc. Prof. Ir. Dr. Julie Juliewatty Mohamed</b>	
0930 – 1015	<b>Keynote 1</b> <b>Dr. Manfred Kriechbaum, Graz University of Technology, Austria.</b> <i>Title: Pressure-Induced Phase Transitions Investigated by in-situ SAXS (Small Angle X-Ray Scattering)</i>
1015 – 1045	<b>Coffee Break, Photo Session, Exhibition &amp; Poster Session</b>
<b>Session Chair: Assoc. Prof. Dr. Noor Azlina Ibrahim</b>	
1045 – 1130	<b>Keynote 2</b> <b>Prof. Dr. Manabu Tanaka, Joining and Welding Research Institute, Osaka University, Japan</b> <i>Title: State-of-the-art Research on Arc Welding Process in Japan</i>
1130 – 1215	<b>Invited Talk 1</b> <b>Dr. Tony Wong, Bruker Malaysia Sdn Bhd</b> <i>Title: Direct Refining Molecular Bond Length and Bond Angle in TOPAS</i>
1215 – 1245	<b>Invited Talk 2</b> <b>Dr. Andreas Keilbach, Anton Paar Malaysia Sdn Bhd</b> <i>Title: Recent Developments in Laboratory Small-Angle X-ray Scattering Instrumentation</i>
1245 – 1415	<b>Lunch Break, Exhibition &amp; Poster Session</b>

	<b>A: METALS &amp; CERAMICS</b> <b>Venue: Puteri Saadong 1</b> <b>Session Chair: Dr. Hasyiya Karimah Adli</b>	<b>B: BIOMATERIALS &amp; ENVIRONMENTAL RESOURCES</b> <b>Venue: Sekebun Bunga</b> <b>Session Chair: Dr. Nadiah Ameram</b>
1415 – 1445	<b>Invited Talk 3</b> <b>Assoc. Prof. Dr. Mohammad Hafizuddin Jumali, Universiti Kebangsaan Malaysia, Malaysia</b> <i>Title: Wake-up Ferroelectric Phenomenon in BaTiO<sub>3</sub> Based Ceramics</i>	<b>Invited Talk 4</b> <b>Dr. Olga Narygina, DKSH Technology Sdn Bhd</b> <i>Title: Intelligent laboratory diffractometer for routine and advanced applications</i>
1445 – 1500	<b>UiTM01</b> <b>Dr. Hazman Seli</b> <i>Title: Preliminary study of hydroxyapatite particles air abrasive blasting on Mg-4Zn-0.3Ca surface</i>	<b>UTHM17</b> <b>Assoc. Prof. Dr. Maizlinda Izwana Idris</b> <i>Title: The Effect of Surfactant Concentration on Microencapsulated Vegetable Oil</i>
1500 – 1515	<b>UPNM02</b> <b>Dr. Muhamad Faiz Din</b> <i>Title: Structure analysis using XRD refinement for replacement of Copper (Cu) with Manganese (Mn) in NdMn<sub>2</sub>Si<sub>2</sub> compound</i>	<b>UMK20</b> <b>Dr. Zubaidah Aimi Abdul Hamid</b> <i>Title: Investigation on The Chemical Composition of Discorea Hispida Dennst (Ubi Gadong)</i>
1515 – 1530	<b>IIUM06</b> <b>Ms. Nor Ezzati Hamidon</b> <i>Title: Hardness and Fracture Toughness Analysis of ZTA–CNT Ceramic Cutting Inserts</i>	<b>IIUM09</b> <b>Ms. Siti Munirah Salimah Abd Rashid</b> <i>Title: Effects of Plasticizer on Mechanical Properties of Durian Skin Fiber Reinforced Polylactic Acid Biocomposite</i>
1530 – 1545	<b>IAT01</b> <b>Ms. Rahayu Emilia Mohamed Khaidir</b> <i>Title: Effects of Different ZnO:WRHA ratios on Structural Analysis of ZnO-SiO<sub>2</sub> Glasses</i>	<b>IIUM10</b> <b>Ms. Siti Nur E'zzati Mohd Apani</b> <i>Title: Effect of Supercritical Carbon Dioxide Treatment on Degradation Properties of Durian Skin Fibre Biocomposite</i>
1545 – 1600	<b>UKM01</b> <b>Ms. Nor Huwaida Janil @ Jamil</b> <i>Title: Possible Underlying Reason for Ferroelectric Fatigue Characterization of BaTiO<sub>3</sub> Ceramic</i>	<b>USM18</b> <b>Ms. Nur Atiqqah Mohd. Moslim</b> <i>Title: Effect of Mg concentrations on the properties of biphasic calcium phosphate</i>
1600 – 1615	<b>USM15</b> <b>Ms. Erny Raudhoh Mohd Shafie</b> <i>Title; Effects of Ammonia Solution on The Conversion Phase of Dicalcium Hydrogen Phosphate Dihydrate to Hydroxyapatite via Dissolution-Precipitation Mechanism</i>	<b>USM19</b> <b>Ms. Nur Fazreen Alias</b> <i>Title: Tensile Properties and Morphological Study of PLA/NR/Kenaf Biocomposite</i>
1615 – 1630	<b>UTHM08</b> <b>Mr. Awwal Hussain Nuhu</b> <i>Title: Effects of Holding Time on Properties of Direct Recycled Aluminium-Copper-Cullet Metal Composites</i>	<b>USM20</b> <b>Ms. Nurul Aizan Mohd Zaini</b> <i>Title: Effects of Glut Palmitate (GP) On The Properties of Sepiolite Filled Ethylene Propylene Diene Monomer (EPDM) Rubber Composites</i>

1615 – 1645	<b>UTM05</b> <b>Ms. Musfirah Mokhtar</b> <i>Title: Influence of Silica Content on the Stabilization of Tetragonal Zirconia for Biomedical Application</i>	<b>UMK28</b> <b>Ms. Nurfarah Aini Mocktar</b> <i>Title: Characterization of Rn-222 Emanations from Kenaf Composite Brick</i>
1645 – 1700	<b>Coffee Break</b>	
2030 – 2300	<b>Excursion to Wakaf Che Yeh Night Market, Kota Bharu</b>	

19 AUGUST 2018 (SUNDAY)

<b>Venue: Puteri Saadong 1</b>		
<b>Session Chair: Dr. Mohammad Amizi Ayob</b>		
0900 – 0930	<b>Invited Talk 5</b> <b>Dr. Chris Boothroyd, Nanyang Technological University, Singapore</b> <i>Title: Low noise electron holography</i>	
0930 – 1000	<b>Invited Talk 6</b> <b>Assoc. Prof. Dr. Ika Dewi Ana, Universitas Gadjah Mada, Indonesia</b> <i>Title: Certificate of Analysis Using XRD Patterns to Achieve Proper Bioceramics- based Scaffold for Clinical Application in Regenerative Dentistry and Drug Delivery System</i>	
1000 – 1030	<b>Invited Talk 7</b> <b>Assoc. Prof. Dr. Ahmad Azmin Mohamad, Universiti Sains Malaysia, Malaysia.</b> <i>Title: Rietveld Refinement: A Basic Concept</i>	
1030 – 1100	<b>Coffee Break, Exhibition &amp; Poster Session</b>	
	<b>C: CLAY, MINERALS &amp; NUCLEAR MATERIALS</b> <b>Venue: Puteri Saadong 1</b> <b>Session Chair: Dr. Zubaidah Aimi Abdul Hamid</b>	<b>D: FUNCTIONAL &amp; CATALYTIC MATERIALS</b> <b>Venue: Sekebung Bunga</b> <b>Session Chair: Dr. Nik Nurul Anis Nik Yusoff</b>
1100 – 1130	<b>Invited Talk 8</b> <b>Dr. Andreas Keilbach, Anton Paar Malaysia Sdn Bhd</b> <i>Title: Applications of Small-Angle X-ray Scattering to Nuclear Power Research</i>	<b>Invited Talk 9</b> <b>Prof. Ir. Dr. Shah Nor Basri, Universiti Malaysia Kelantan, Malaysia</b> <i>Title: Functionally Graded Materials: Current Trend and Future Direction</i>
1130 – 1145	<b>USM05</b> <b>Dr. Zhwan Dilshad Ibrahim Sktani</b> <i>Title: Microstructural Evolution of ZTA<sub>5</sub>CeO<sub>2</sub> Ceramics Through Pentavalent Nb<sub>2</sub>O<sub>5</sub> Addition</i>	<b>UTEM02</b> <b>Ms. Noor Farah Iddayu Abu Bakar</b> <i>Title: Characterization of Fe<sub>2</sub>O<sub>3</sub>/CNT Nanocomposite for Photocatalyst</i>
1145 – 1200	<b>UNiMAP06</b> <b>Ms. Nur Khuzaima Azman</b> <i>Title: Effect of Na<sub>2</sub>SO<sub>4</sub> on the embedding Carbothermal Reduction of Ilmenite, Black Sand</i>	<b>UNiMAP03</b> <b>Dr. Mohd Sobri Idris</b> <i>Title: Evaluation of Crystal Defects in High Voltage Cathode Materials for Rechargeable Lithium-ion Batteries</i>

1200 – 1215	<b>MRC01</b> <b>Mr. Hamdan Yahya</b> <i>Title: Effect of Dolomite on Translucency and Mechanical Properties of Whiteware</i>	<b>UPNM01</b> <b>Ms. Nurjahirah Janudin</b> <i>Title: Carbon Nanofibers Functionalized with Amide Group for Ammonia Gas Detection</i>
1215 – 1230	<b>UPNM10</b> <b>Ms. Zakiah Jamingan</b> <i>Title: Clay Modification by Epoxidized Fatty Hydrazides Synthesized from Palm Oil</i>	<b>UPNM06</b> <b>Ms. Noor Wahidah Zainol Jamil</b> <i>Title: Liquid Polymeric Membrane Composition of Ion Selective Electrode Based on Thiazole-4-carboxamide as Ionophore</i>
1230 – 1245	<b>UTHM13</b> <b>Mr. Tijjani Abdullahi</b> <i>Title: Conversion and Characterization of Synthetic Zeolite Obtained Using Low Grade Kaolin from Mersing Area of Johor</i>	<b>UPM01</b> <b>Ms. Nur Alia Sheh Omar</b> <i>Title; Synthesis and Sensing Properties of Cadmium Sulfide Quantum Dots- Polyamidoamine Dendrimer Thin Films Using Surface Plasmon Resonance Technique</i>
1245 – 1400	<b>Lunch Break, Exhibition &amp; Poster Session</b>	
	<b>E: MATERIALS PROCESSING &amp; CHARACTERIZATION</b> <b>Venue: Puteri Saadong 1</b> <b>Session Chair: Dr. Noor Syuhadah Subki</b>	<b>F: POLYMERS &amp; COMPOSITES</b> <b>Venue: Sekebun Bunga</b> <b>Session Chair: Dr. Nik Raihan Nik Yusoff</b>
1400 – 1430	<b>Invited Talk 10</b> <b>Dr. Andreas Keilbach, Anton Paar Malaysia Sdn Bhd</b> <i>Title: Applications of Small-Angle X-ray Scattering for Materials Characterization</i>	<b>Invited Talk 11</b> <b>Prof. Dr. Razak Wahab, University College of Technology Sarawak, Malaysia</b> <i>Title: Study on the Microstructure Properties of selected Tropical Bamboo Species by Scanning Electron and Transmission Electron Microscopes</i>
1430 – 1445	<b>MNA03</b> <b>Dr. Mahdi Mahmoud</b> <i>Title: Dynamic molecular interactions between polyurethane and ZIF-8 in a polymer-MOF nanocomposite: Microstructural, thermo-mechanical and viscoelastic effects</i>	<b>UMT01</b> <b>Dr. Mohd Al Amin Muhamad Nor</b> <i>Title: Preparation and Characterization of Ceramic Membrane by using Palm Fibers as Pore Forming Agent</i>
1445 – 1500	<b>USM12</b> <b>Mr. Chee Lung Chin</b> <i>Title: Effect of Process Parameters on Thermal Expansion of Ceramic Tiles Bodies</i>	<b>UTHM15</b> <b>Mr. Dagaci Muhammad Zago</b> <i>Title: Investigation on Structural, Mechanical and Melt Flow Properties of In Situ Polypropylene/Kaolin Nanocomposite</i>
1500 – 515	<b>UMP01</b> <b>Mr. Husam Eldin Elhag Abugabr Elhag</b> <i>Title: Optimization of protein yields in water extracts of Jackiopsis ornata roots by Response Surface Methodology using Microwave assisted extraction (MAE)</i>	<b>UMK21</b> <b>Mr. Ahmad Zaid Ahmad Zakaria</b> <i>Title: Synthesis and characterization of Nicotiana Tabacum stalks and lemongrass essential oils for active food packaging</i>
1515 – 1530	<b>USM11</b> <b>Mr. Anas Awad Hasan Ahmed</b>	<b>UTM06</b> <b>Ms. Nur Farhana Hasmuni</b>

	<i>Title: Effect of RF Power on Structural, Morphological and Optical Properties of NiO Thin Films</i>	<i>Title: Fabrication of Polymer-Based Graphene Composite as Highly Conductive Polymer Electrode</i>
1530 – 1545	<b>USM25</b> <b>Ms. Muna Ezzi Abdullah</b> <i>Title: Estimation of Junction Temperature of LED as a Function of Injection Current and Ambient Temperature</i>	<b>USM14</b> <b>Mr. Muhamad Nadhli Amin Lotfi</b> <i>Title: The Effect of Size Reduction and Eco-Friendly Coupling Agent on Tensile and Morphological Properties of Bentonite Filled Acrylonitrile Butadiene Rubber Composite</i>
1545 – 1600	<b>UTHM10</b> <b>Ms. Nazia Bano</b> <i>Title: XRD and FTIR Study of A&amp;B Type Carbonated Hydroxyapatite Extracted from Bovine Bone</i>	<b>USM26</b> <b>Mr. Mohd Saidina Dandan Satia</b> <i>Title: Morphology and Thermal Stability of Various Types of Carbon Nanoparticles for Conductive Ink Applications</i>
1600 – 1615	<b>UTHM12</b> <b>Ms. Siti Sarah Mohd Ismail</b> <i>Title: Effect of Annealing Temperature on the Properties of Transition Metal Doped Zinc Oxide – A Review</i>	<b>UMK30</b> <b>Ms. Saniah Ab. Karim</b> <i>Title: Microstructure and Dielectric Properties of Silicone Rubber/CCTO Composites</i>
1630 – 1730	<b>Prize Giving &amp; Closing Ceremony</b> <b>Tea Break</b>	