

**Parallel Technical Sessions 1, Wednesday, 30 October 2019: 14.00 – 16.30**

Time	<p><b>Chairperson:</b> Prof. Dr. Iis Sopyan  <b>Co-Chair:</b> Dr. Noorasikin Samat</p> <p align="center"><b>Venue: Hall 2A</b>  (ADVANCED &amp; SUSTAINABLE MATERIALS)</p>	<p><b>Chairperson:</b> Assoc. Prof. Dr. Tasnim Firdaus  Mohamed Ariff  <b>Co-Chair:</b> Dr. Siti Haryani Tomadi</p> <p align="center"><b>Venue: Hall 2B</b>  (SMART MANUFACTURING)</p>	<p><b>Chairperson:</b> Dr. Ahmad Zahirani Ahmad  Azhar  <b>Co-Chair:</b> Dr. Nur Ayuni Jamal</p> <p align="center"><b>Venue: Hall 2C</b>  (ADVANCED &amp; SUSTAINABLE MATERIALS)</p>
14.00 – 14.20	<p><b>Paper ID: 104</b>  Impact and Fire Resistance Properties of Polypropylene Filled with Graphene/Mg(OH)<sub>2</sub> Nanoparticles</p> <p><i>Ruey Shan Chen and Sahrim Ahmad  Malaysia</i></p>	<p><b>Paper ID: 137</b>  Burr Control Using Modified Tool Geometry: A 3D FEM Approach</p> <p><i>Muhammad Asad  Saudi Arabia</i></p>	<p><b>Paper ID: 134</b>  Study of Surface Modification on Die-Casting AZ91D Magnesium Alloy</p> <p><i>Fatin Shaera Zuhari, Nur Liyana, Rozie Nani Ahmad and Siti Norbahiyah Mohamad Badari  Malaysia</i></p>
14.20 – 14.40	<p><b>Paper ID: 171</b>  Study on Physicochemical Status, Bacterial Analysis And Its Correlation</p> <p><i>MN Uddin, Z Mahabub, MM Rahman, MR Rana, N Haque, MS Islam, S Ahammed, Rupal Roy and MM Rashid  Bangladesh</i></p>	<p><b>Paper ID: 123</b>  Optimum Surface Roughness, Tool Wear and Cutting Force for Titanium Alloy in Turning Process Using Taguchi Method</p> <p><i>Razali Samin, Nurhidayah Azman, Mohd Zaki Nuawi, Sallehuddin M. Haris and Jaharah A. Ghani  Malaysia</i></p>	<p><b>Paper ID: 140</b>  Effect of Nano-CuO Grain Size on Heat Transfer Performance of Copper Substrate</p> <p><i>M H Mahmood, Md Abdul Maleque and Suryanto  Malaysia</i></p>
14.40 – 15.00	<p><b>Paper ID: 162</b>  The Production and Characterization of Lanolin and Polylactic Acid Based Nano Structures for Wound Management</p> <p><i>Muhammet Uzun and Hüseyin Oymak  Turkey</i></p>	<p><b>Paper ID: 144</b>  Real Time Implementation of Intelligent Controller for the Control of Cement Dust Emission in Wet Scrubber System</p> <p><i>Sambo Aliyu Umar, Adamu Yawale Babawuro and Md. Raisuddin Khan  Nigeria/Malaysia</i></p>	<p><b>Paper ID: 141</b>  Development of Abradable Coating on Steel Substrate by High Velocity Oxy-fuel (HVOF) Method</p> <p><i>Raden Ramdan, Budi Prawara, Irma Pratiwi, Syauqi Ramadhan, Bambang Widyanto and Rochim Suratman  Indonesia</i></p>
15.00 – 15.30	<b>Break</b>		

15.30 – 15.50	<p><b>Paper ID: 118</b>  <b>Cyclic Voltammetry and Charged/Discharged Cycles of Conductive Polymer on Screen-printed Carbon and Platinum Electrodes in Aqueous Media</b></p> <p><i>Abdelmohsen Benoudjit, Ihda Uswatun Shalihah Shohibuddin, Afidalina Tumian and Wan Wardatul Amani Wan Salim</i>  <i>Malaysia</i></p>	<p><b>Paper ID: 168</b>  <b>Development of Surface Modification Technology for CEDM Nozzle and Fatigue Enhancement of Ni-based Alloys</b></p> <p><i>Auezhan Amanov, In-Ho Cho and Young-Sik Pyun</i>  <i>South Korea</i></p>	<p><b>Paper ID: 143</b>  <b>The Fabrication of Nanocone Array Using Soft Lithography Technique for Antimicrobial Application</b></p> <p><i>Liyana Shamsuddin, Khairudin Mohamed and Siti Suhaila Md Izah</i>  <i>Malaysia</i></p>
15.50 – 16.10	<p><b>Paper ID: 125</b>  <b>Effect of Solid Particles Concentration to the Size of Graphene Oxide Liquid Crystals Pickering Emulsion (GOLCsPE)</b></p> <p><i>Nurul Nadiyah Sahir, Noor Azlina Hassan, Norita Hassan, Nor Hasnidawani Johari and Siti Norasmah Surip</i>  <i>Malaysia</i></p>	<p><b>Paper ID: 170</b>  <b>Review of Coal Fired Power Plants in Bangladesh</b></p> <p><i>MN Uddin, Z Mahabub, MM Rahman, MR Rana, N Haque, MS Islam, S Ahammed, Rupal Roy and MM Rashid</i>  <i>Bangladesh</i></p>	<p><b>Paper ID: 145</b>  <b>Effect of ZnO-SiO<sub>2</sub> Nanoparticles on the Morphology of Nanocoating</b></p> <p><i>Norhasnidawani Johari and Noor Azlina Hassan</i>  <i>Malaysia</i></p>
16.10 – 16.30	<p><b>Paper ID: 126</b>  <b>The Effect Recycled Polyethylene Terephthalate (PET) Bottles Waste as a Fine Aggregate Replacement in Concrete</b></p> <p><i>Altamashuddinkhan Nadimalla, Siti Aliyyah Masjuki, Siti Asmahani Saad, Nur Hawa Othman, Ahmad Kamil Amiruddin and Maisarah Ali</i>  <i>Malaysia</i></p>	<p><b>Paper ID: 138</b>  <b>A Review on The Application of Various MQL Techniques for Metal Cutting Operation of Aluminum Alloy</b></p> <p><i>Abdul Rahman Abdul Ghani, Natasha A.Raof, Aishah Najiah Dahnel, Nor Khairusshima Muhammad Khairussaleh and Suhaily Mokhtar</i>  <i>Malaysia</i></p>	<p><b>Paper ID: 147</b>  <b>Viscoelastic Properties of Kenaf/Basalt Reinforced Epoxy Hybrid Composites Through Vacuum Infusion Techniques</b></p> <p><i>A Atiqah, Mohamed Ansari M.Nainar, K. Chandran, K. Surenthiran, M. Jawaid and A. Hamdan</i>  <i>Malaysia</i></p>
16.30 - 17.10	<b>Refreshment</b>		<b>Venue: Foyer (Hall 2, 3 and 4)</b>

**DAY 2, THURSDAY, 31 OCTOBER 2019**

**ICAMME'19 Keynote Session, Thursday, 31 October 2019: 9.00 – 9.50**

**Keynote Speaker 1:** Prof. Dr. Che Hassan Che Haron – University Kebangsaan Malaysia  
**Title:** Sustainable Machining of Inconel 718 Alloy: Dry, MQL and Cryogenic Cooling

**Chairperson:** Prof. Dr. Erry Yulian Triblas Adesta **Venue:** Hall 2

9.50 - 10.20

**Refreshment**

**Venue: Foyer (Hall 2, 3 and 4)**

**Parallel Technical Sessions 2, Thursday, 31 October 2019: 10.20 – 12.20**

<b>Time</b>	<b>Chairperson:</b> Assoc. Prof. Dr. Mohd Hanafi Ani <b>Co-Chair:</b> Dr. Alya Naili Rozhan  <b>Venue: Hall 2A</b> <b>(ADVANCED &amp; SUSTAINABLE MATERIALS)</b>	<b>Chairperson:</b> Assoc. Prof. Dr. Mohd Radzi Che Daud <b>Co-Chair:</b> Dr. Natasha A. Raof <b>Venue: Hall 2B</b> <b>(SMART MANUFACTURING)</b>	<b>Chairperson:</b> Dr. Nor Farah Huda Abd. Halim <b>Co-Chair:</b> Dr. Suhaily Mokhtar <b>Venue: Hall 2C</b> <b>(SIMULATION, MODELLING &amp; MANAGEMENT)</b>
10.20 – 10.40	Paper ID: 158 Early Investigation in Porous Aluminum Development via Powder Metallurgy Technique	Paper ID: 161 Effects of Drilled Area Temperatures on Drilling of NFRP Composites: A Review	Paper ID: 173 Adapting the LTE Architecture to 5G: Challenges and Possibilities

	<i>Nur Ayuni Jamal, Maizatunisa Othman, Yusilawati Ahmad Nor, Norhuda Hidayah Nordin and Nahsrah Hani Jamadon Malaysia</i>	<i>Suhaily Mokhtar, Nur Syahira Sofyani Yusof, Mohd Ashraff Mohd Asri, Che Hassan Che Haron, Natasha Binti A. Raof, Nor Khairusshima Muhammad Khairussaleh and Aishah Najiah Danhel Malaysia</i>	<i>MS Alam, MN Uddin, ZI Roni, S Ahammed, MS Islam, N Haque, MR Rana, MM Rahman, Z Mahabub, Rupal Roy and MM Rashid Bangladesh</i>
<b>10.40 – 11.00</b>	<b>Paper ID: 114</b> <b>Effects of Silver Nanoparticles Concentration on Resistivity of PEDOT:PSS Thin Conductive Films</b>  <i>Zuraida Ahmad, Udaimatunnoor Azmy, Amelia Wong Azman, Nur'Aishah Ahmad Shahrin and Fawwaz Eniola Fajingbesi Malaysia</i>	<b>Paper ID: 179</b> <b>An Experimental Investigation on Drilling of Aluminum Alloy (Al7075) Using High Speed Steel Cutting Tools</b>  <i>Nor Farah Huda Abd Halim, Aishah Najiah Dahnel, Azwa Azmariza Ismail and Nur Amanina Mohd Zainudin Malaysia</i>	<b>Paper ID: 156</b> <b>Contradiction Matrix Applied to Value Analysis Value Engineering (VAVE)</b>  <i>Ainul Farahin Abdullah Malaysia</i>
<b>11.00 – 11.20</b>	<b>Paper ID: 165</b> <b>The Effects of Glycerol Addition on Mechanical Properties of Thermoplastic Films Based on Mango Seed Starch</b>  <i>Nur'Aishah Ahmad Shahrin, Norshahida Sarifuddin, Noorasikin Samat and Hafizah Hanim Mohd Zaki Malaysia</i>	<b>Paper ID: 155</b> <b>The Effect of Cutting Parameters on Tool Wear in Drilling Aluminium 7075</b>  <i>Nur Munirah Meera Mydin, Aishah Najiah Dahnel, Natasha A. Raof, Nor Khairusshima Muhamad Khairussaleh and Suhaily Mokhtar Malaysia</i>	<b>Paper ID: 157</b> <b>Design Optimization of Lightweight Lower Control Arm using Finite Element Method</b>  <i>Rosdi Daud, Abdalrhman Adnan Almor, Mas Ayu Hassan, Muhamad Safwan Sallehfi'I, Siti Haryani Tomadi and Arman Shah Abdullah Malaysia</i>
<b>11.20 – 11.40</b>	<b>Paper ID: 177</b> <b>Effect of Epoxidized Palm Oil (EPO) on Mechanical Properties of Polyhydroxylalkanoates (PHA)</b>  <i>Muhammad Sufi Iqbal, Norita Hassan and Noor Azlina Hassan Malaysia</i>	<b>Paper ID: 117</b> <b>Investigation of Vibration in Micro Milling with MQL : S/N Ratio Analysis</b>  <i>Muhammad Shaffiq Hussin, Mohammad Yeakub Ali, Asfana Banu, Mohamed Abd. Rahman and Md. Sazzad Hossien Chowdhury Malaysia</i>	<b>Paper ID: 150</b> <b>Study on Low Velocity Impacts on Empty Fruit Bunch (EFB) Composite by Using Finite Element Analysis Software LS-DYNA</b>  <i>Intan Irieyana Binti Zulkepli and Hanan Bin Mokhtar Malaysia</i>

11.40 – 12.00	<p>Paper ID: 105 Effect of SiC Particle Size on Hardness and Wear Behavior TIG Melted Hard Surface Layer AISI Duplex-2205 Steel</p> <p><i>Lailatul Harina Paijan, Md Abd Maleque and Suryanto Malaysia</i></p>	<p>Paper ID: 178 Mechanical and Structural Properties of the Butt Welded Joint in High Strength Structural Steel (ST52-3) Using Gas Metal Arc Welding and Oxyfuel Gas Welding</p> <p><i>Tasnim Firdaus Mohamed Ariff and Osamah Omar Alqwairi Malaysia</i></p>	<p>Paper ID: 172 The Performance Analysis of PID Controller for Rehabilitation by Using Dynamic Model</p> <p><i>Rupal Roy, MM Rashid, Maidul Islam, Julkar Nayen, Anik Paul and Norsinnira Zainul Azlan Malaysia/Bangladesh</i></p>
12.00 – 12.20	<p>Paper ID: 176 Anodized Nano-coating of Copper Material for Thermal Efficiency Enhancement</p> <p><i>M H Mahmood and M A Maleque Malaysia</i></p>	<p>Paper ID: 127 Investigation on Pullout Strength between Different Design of Cannulated Pedicle Screw and Osteoporosis Bones to Obtain an Optimum Design</p> <p><i>Rosdi Daud, Muhammad Amir Asyraf Abdul Mubin, Mas Ayu Hassan, Arman Shah and Siti Haryani Tomadi Malaysia</i></p>	
13.00 - 14.00	<p><b>Lunch Break</b> <span style="float: right;"><b>Venue: Pot and Pan Restaurant</b></span></p>		
<b>Parallel Technical Sessions 3, Thursday, 31 October 2019: 14.00 – 15.20</b>			
<b>Time</b>	<p><b>Chairperson:</b> Assoc. Prof. Dr. Hadi Purwanto <b>Co-Chair:</b> Dr. Norhuda Hidayah Nordin</p> <p style="text-align: center;"><b>Venue: Hall 2A</b> <b>(ADVANCED &amp; SUSTAINABLE MATERIALS)</b></p>	<p><b>Chairperson:</b> Dr. Shafie Kamaruddin <b>Co-Chair:</b> Dr. Nor Khairusshima Muhammad Khairussaleh</p> <p style="text-align: center;"><b>Venue: Hall 2B</b> <b>(SMART MANUFACTURING)</b></p>	<p><b>Chairperson:</b> Assoc. Prof. Dr. Maizatunisa Othman <b>Co-Chair:</b> Dr. Syazwani Mohd Zaki</p> <p style="text-align: center;"><b>Venue: Hall 2C</b> <b>(ADVANCED &amp; SUSTAINABLE MATERIALS)</b></p>
14.00 – 14.20	<p>Paper ID: 128 Thermal Oxidation Promotes Growth of Nanocrystalline Diamond on Biomedical Grade Co-Cr-Mo Alloy</p> <p><i>H. Mas-Ayu, S Izman, Rosdi Daud, A. Shah, Siti Haryani Tomadi and M. S. Dambatta Malaysia</i></p>	<p>Paper ID: 139 Integrating TRIZ (Theory of Inventive Problem Solving) Into Value Analysis Value Engineering (VAE) Methodology</p> <p><i>Ainul Farahin Abdullah Malaysia</i></p>	<p>Paper ID: 148 Performance of Nano Silica as Modified Binder to Improve Rutting and Fatigue Resistance</p> <p><i>Khairil Azman Masri, Ahmad Kamil Arshad, Ramadhansyah Putra Jaya, Haryati Awang, Mohamad Idris Ali, Ekarizan Shaffie, Juraidah Ahmad And Youventharan Duraisamy Malaysia</i></p>

14.20 – 14.40	<p><b>Paper ID:130</b>  <b>New Approach of Municipal Solid Waste (MSW) Leachate Treatment Using Hydrothermal Method</b></p> <p><i>Siti Salwa Khamis, Hadi Purwanto, Hamzah Mohd Salleh, Mohamed Abd Rahman and Alya Naili Rozhan  Malaysia</i></p>	<p><b>Paper ID: 124</b>  <b>Development of Transition Decision-Making Framework Towards Remanufacturing: Case Studies in Malaysia Automotive Sector</b></p> <p><i>Mohd Fakhrur Razi Misran, Eida Nadirah Roslin, Nurhayati Mohd Nur, Jamel Othman and Nor Aiman Sukindar  Malaysia</i></p>	<p><b>Paper ID: 149</b>  <b>Performance of Charcoal Coconut Shell Ash in the Asphalt Mixture Under Long Term Aging</b></p> <p><i>Sajjad Ali Mangi, Ramadhansyah Putra Jaya, Khairil Azman Masri, Youventharan Duraisamy, Ekarizan Shaffie, Norhidayah Abdul Hassan and Mohd Rosli Mohd Hasan  Malaysia</i></p>
14.40 – 15.00	<p><b>Paper ID: 131</b>  <b>Joining of Aluminium Metal Matrix Composites Using Friction Welding – Review, Insights and Future Directions.</b></p> <p><i>Mutlag Shafi Fuhaid, Pradeep K Krishnan, Md Abdul Maleque, Murali R V and Mohammad Yeakub Ali  Malaysia</i></p>	<p><b>Paper ID: 167</b>  <b>Development and Investigation of an Impedance Controller for Shoulder Rehabilitation</b></p> <p><i>Rupal Roy, Julkar Nayen, M M Rashid, Maidul Islam, Norsinnira Zainul Azlan and Saiful Islam  Malaysia/Bangladesh</i></p>	<p><b>Paper ID: 151</b>  <b>Experimental Study on Empty Fruit Bunch (EFB) Composite Subjected to Three Points Bending Using ANOVA Technique</b></p> <p><i>Intan Irieyana Binti Zulkepli and Hanan Bin Mokhtar  Malaysia</i></p>
15.00 – 15.20	<p><b>Paper ID: 175</b>  <b>Reprocessing of Polypropylene/Cellulose Composites: Effects on Thermal Properties</b></p> <p><i>Noorasikin Samat, Norshahida Sarifuddin and Muhd Izzudin Shafiee  Malaysia</i></p>	<p><b>Paper ID: 164</b>  <b>Vibration Analysis of Forming Tool and Thin Sheet Metal in Robot-Based Single Point Incremental Sheet Forming</b></p> <p><i>Nazarul Abidin Ismail, Mohd Idris Shah Ismail, Azizan As'arry, Mohd Khairol Anuar Mohd Ariffin  Malaysia</i></p>	<p><b>Paper ID: 174</b>  <b>A Review of Current Prediction Methods for Slagging and Fouling in Malaysian Coal Fired Power Plants</b></p> <p><i>Zaki Anhar, Mukhtaruddin Musa, Suhaimi Illias and Mohd Hanafi Ani  Malaysia</i></p>
16.20 – 16.40	<b>Best Papers Awards and Closing Session</b>		<b>Venue: Hall 1</b>