

ICAMME Keynote Sessions, Tuesday 23 September 2014: 09.00 – 10.30		
09.00 – 09.45	09.45 – 10.30	
Keynote Session 1 & 2		
Chairperson: Prof. Dr. A.K.M. Nurul Amin Co-chair: Prof. Erry Yullan Triblias Adesta Venue: Ballroom 2		
Assoc. Prof. Dr. Wayne N.P. Hung Advanced Manufacturing Initiatives in the USA		Professor Dr. Rossi Setchi Sustainable Manufacturing

Parallel Technical Sessions I, Tuesday 23 September 2014: 11.00 – 13.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 - 12.00	12.00 - 12.15
IA: Modelling and Simulation				
Chairperson: Prof. Dr. Rossi Setchi Co-chair: Dr. Muhammad Hasibul Hasan Venue: Helang				
Paper ID: 2004 Rapid Prototyping as a tool of fabricating biomodel in Medical applications: Technique and cost evaluation <i>Wan Yusoff , Emad El-Kashif</i> <i>Malaysia</i>	Paper ID: 2049 Design and Fabrication of a Winged Hybrid Airship Model for IIUM-LSWT <i>Anwar Ul Haque, Nik Mohamad Amri Hafiz, S. M. Kashif, Waqar Asrar, Ashraf Ali Omar, Erwin Sulaeman, J. S. Mohamed Ali</i> <i>Malaysia</i>	Paper ID: 2056 Prediction of Crack Growth Propagation of a Super Alloy through ANN Modeling <i>Muhammad H Hasan, Sazib Mollik, Mutaz Hazza</i> <i>Malaysia</i>	Paper ID: 2152 Finite Element Simulation of Electro-Mechanical Impedance Technique <i>Kamyar Tahmasebpour, Meftah Hrairi, Mohd Sultan I. S. Dawood</i> <i>Malaysia</i>	Paper ID: 2089 Simulation of low velocity impact test on carbon/epoxy composites plates <i>Ziamah B. Buang, S. M. Kashif</i> <i>Malaysia</i>
12.15 – 12.30 Paper ID: 2095 Finite Element Modeling of Clinching Process for Joining Dissimilar Materials <i>M. Eshteyah, M. Hrairi, M. S. Dawood, A.K.M Mohiuddin</i> <i>Malaysia</i>	12.30-12.45 Paper ID: 2101 Surface Roughness prediction in High Speed end milling using Adaptive Neuro-Fuzzy Inference System <i>Muataz Hazza F. Al Hazza, Amin M. F. Seder, Erry Y T. Adesta, Muhammad Taufik, Abdul Hadi Bin Idris</i> <i>Malaysia</i>	12.45-13.00 Paper ID: 2084 Stress and deformation analysis of aircraft's fuel tank under different inertia load cases in addition to a static test pressure using FEA <i>D.Ramana Reddy, M.V. Aditya Nag, M.S.N. Gupta</i> <i>India</i>		

Parallel Technical Sessions I, Tuesday 23 September 2014: 11.00 – 13.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 - 12.00	12.00 - 12.15
IB: Machining				
Chairperson: Assoc. Prof. Dr. Wayne N.P. Hung		Co-chair: Dr. Sharifah Imihezri		Venue: Meeting Room 3
<p>Paper ID: 2015 Effect of lubrication conditions to the cutting force coefficients in machining process</p> <p><i>Wan Mohd Azlan Nowalid, Muhammad Adib Shahrarun and Ahmad Razlan Yusoff</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2125 Hybrid Fabrication of Metallic Channel for Microfluidic Application</p> <p><i>Berestovskyi D. and Hung N.P.</i></p> <p><i>United States</i></p>	<p>Paper ID: 2126 Micromist Jet Characterization for Effective Lubrication in Machining</p> <p><i>Lerma I., Jimenez M., Edinbarough I., Krell J., and Hung N.P.</i></p> <p><i>United States</i></p>	<p>Paper ID: 2104 Comparison of Surface Roughness Attained in High Speed End Milling of Soda Lime Glass for Three Different Cutter Diameters</p> <p><i>A.K.M. Nurul Amin, A. A. Che Omar, M. A. Mohammed Kamal, Mahmoud M.A. Nassar, N. F. Mohd Zaib, Muammer D. Arif</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2105 Achievement of Ductile Regime Machining in High Speed End Milling of Soda Lime Glass by Using Tungsten Carbide Tool Insert</p> <p><i>A. K. M. Nurul Amin, A. A. Che Omar, M. A. Mohammed Kamal, Mahmoud M. A. Nassar, N. F. Mohd Zaib, M. D. Arif</i></p> <p><i>Malaysia</i></p>
12.15 – 12.30	12.30-12.45	12.45-13.00		
<p>Paper ID: 2016 Cutting Temperature Behaviours in End Milling of Pocket by Applying Contour-In Tool Path Strategy</p> <p><i>Muhammad Riza, Erry Yulian Triblas Adesta, and M. Yuhan Suprianto</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2024 Experimental Analysis of Cutter Engagement During High Speed End Milling of H13</p> <p><i>Mohammad Y. Suprianto, Erry Yulian T. Adesta and Muhammad Riza</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2027 Preliminary Study: The Effect Of Tool Engagement And Tool Path Strategy On Cutting Temperature</p> <p><i>R.Hamidon, Erry Y.T Adesta, Muhammad Riza</i></p> <p><i>Malaysia</i></p>		

Parallel Technical Sessions I, Tuesday 23 September 2014: 11.00 – 13.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 - 12.00	12.00 - 12.15
IC: Ceramic and Glass Materials				
Chairperson: Dr. Shahida Begum		Co-Chair: Dr. Ahmad Zahirani		Venue: Ballroom 2
<p>Paper ID: 2093</p> <p>Characterization of doped Titanium oxide varistor powder processed with latex binder</p> <p><i>Shahida Begum, Ida Rasyada, Arvin Panimeerselvam</i></p> <p>Malaysia</p>	<p>Paper ID: 2094</p> <p>Investigation of Low Voltage Varistor using TiO₂ as Base Material and SiO₂, Bi₂O₃ and WO₃ as Dopants</p> <p><i>Shahida Begum, Zarrin Kothadapani, Mokbanaraju K.Selvaraj, Mohamed Muntasir</i></p> <p>Malaysia</p>	<p>Paper ID: 2047</p> <p>Synthetic Alumina using Aluminum Scrap</p> <p><i>Abdul Shafiq Khan A. Najib Khan, Nur Ezzah Faezah Othman, Hadi Purwanto, Hafasihah Abdul Halim, Ahmad Firdaus Shamsul Baharin</i></p> <p>Malaysia</p>	<p>Paper ID: 2048</p> <p>Effect of Electron Beam Irradlation on the Morphology of Alumina Ceramic</p> <p><i>Nur Ezzah Faezah Othman, Yusof Abdullah, Hadi Purwanto, Khairun Hafizah Zaini</i></p> <p>Malaysia</p>	<p>Paper ID: 2062</p> <p>Synthesis of Co-deposited Hexagonal Boron Nitride for thermally-Efficient Tribological Performance</p> <p><i>Kamilu Adeyemi Bello, Md Abdul Maleque, Zuraida Ahmad and Mirdha S.</i></p> <p>Malaysia</p>
12.15 – 12.30	12.30-12.45	12.45-13.00	13:00-13:15	
<p>Paper ID: 2120</p> <p>Wear Characteristics of Multiple Particle Size Silicon Carbide Reinforced Aluminium Composite</p> <p><i>Adebisi Adetayo Abdulmumin, Md Abdul Maleque, Mohammad Yeakub Ali</i></p> <p>Malaysia</p>	<p>Paper ID: 2124</p> <p>Effect of Calcium Carbonate Addition in Concrete</p> <p><i>Maisarah Ali, Muhd Sufian Abdullah and Siti Asmahani Saad</i></p> <p>Malaysia</p>	<p>Paper ID: 2133</p> <p>Effect of Rice Husk Ash (RHA) on Physical and Mechanical Strength of Concrete</p> <p><i>Maisarah Ali, Mohd Syafiq Fadzil and Siti Asmahani Saad</i></p> <p>Malaysia</p>	<p>Paper ID: 2122</p> <p>Effect of Electron Beam Radiation on Water Absorption of Hybrid Kenaf- Glass Unsaturated Polyester Composite</p> <p><i>Md Abdul Maleque, Atiqah Afdzaluddin and Mahak Fazal</i></p> <p>Malaysia</p>	

Parallel Technical Sessions II, Tuesday 23 September 2014: 14.00 – 15.30				
14.00 – 14.15	14.15 – 14.30	14.30 – 14.45	14.45 - 15.00	15.00 - 15.15
IIA: Control and Automation				
Chairperson: Dr. Irfan Hilmy Co-chair: Dr. Israd Hakim Jaafar Venue: Helang				
<p>Paper ID: 2066</p> <p>Active Vehicle Suspension Control using Full State-feedback Controller</p> <p><i>Musa Mohammed Bello, Amir Akramin Shafie and Raisuddin Khan</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2068</p> <p>Development of a Shape Memory Alloy (SMA) based assistive hand</p> <p><i>Alala M. Ba Hamid, Mohatashem R. Makhdoomi, Tanveer Saleh and Moinul Bhuiyan</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2069</p> <p>Remote Interior Temperature Control of Parked Vehicles</p> <p><i>Marsad Latief, MD Azhar Ali, Abdul Mannan, Moinul Bhuiyan, MD. Raisuddin Khan, and Tanveer Saleh</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2114</p> <p>Derivation of Stress Intensity Factor for a Cracked Plate with an Integrated Piezoelectric Actuator</p> <p><i>Ahmed Abuzaid, Meftah Hrairi, and Mohd Sultan Dawood</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2108</p> <p>Development of an Automatic Plant Monitoring System</p> <p><i>Tengku Muhammad Afif bin Tengku Azmi, and Moinul Bhuiyan</i></p> <p><i>Malaysia</i></p>
15.15 – 15.30				
<p>Paper ID: 2109</p> <p>Two Degree Of Freedom Plotter Using Robotic Arm</p> <p><i>Muhammad Muaz Bin Hanafi and Moinul Bhuiyan</i></p> <p><i>Malaysia</i></p>				

Parallel Technical Sessions II, Tuesday 23 September 2014: 14.00 – 15.30				
14.00 – 14.15	14.15 – 14.30	14.30 – 14.45	14.45 - 15.00	15.00 - 15.15
IIB: Mechanical Engineering				
Chairperson: Prof. Dr. Mohammad Nurul Alam Hawlader Co-chair: Dr. Rubina Bahar Venue: Meeting Room 3				
Paper ID: 2121 Weld Hardness study of P91 welded pipes with Post Weld Heat Treatment for Elevated Temperature Application in Power Plants <i>Muhammad Sarwar, Mohd Amin Bin Abd Majid</i> <i>Malaysia</i>	Paper ID: 2065 Development Of Catalytic Converter Using Low Cost Metal <i>A.K.M. Mohiuddin</i> <i>Malaysia</i>	Paper ID: 2067 Design And Development Of A Solar Based Air Conditioning Blower System For Vehicle <i>Muhammad Amirul Abdullah, Salmiah Ahmad and Siti Fauziah Toha</i> <i>Malaysia</i>	Paper ID: 2072 A Higher Order Theory for Cylindrical Bending of Cross Ply Laminated shell under Hygrothermal Loads <i>J.S.Mohamed Ali, Saleh Alsubari and Yulfian Aminanda</i> <i>Malaysia</i>	Paper ID: 2077 A Triangular Double Layer Microchannel Heat Sink: Effect of Parallel and Counter Flow <i>Hazli Manaf, Shugata Ahmed, Mirghani I. Ahmed, MNA Hawlader</i> <i>Malaysia</i>
15.15 – 15.30	15:30-15:45	15:45-16:00		
Paper ID: 2080 Effect of Coolant Plate Geometry and Material in a Freshwater Production System: An Experimental Study <i>Rubina Bahar, Mohammad Nurul Alam Hawlader, Tasnim Firdaus Ariff</i> <i>Malaysia</i>	Paper ID: 2150 Design, Fabrication and Flight Testing of a Surveillance UAV <i>Moumen Idres, Burhani Makame, Bala Nabil Ahmad, Saleh Naji, Ahmad Safiuddin</i> <i>Malaysia</i>	Paper ID: 2151 Evaluation of Orifice Flow Meter Accuracy under Pulsation Conditions <i>Muhammad Abdullah and Moumen Idres</i> <i>Malaysia</i>		

Parallel Technical Sessions II, Tuesday 23 September 2014: 14.00 – 15.30				
14.00 – 14.15	14.15 – 14.30	14.30 – 14.45	14.45 - 15.00	15.00 - 15.15
IIC: Material Properties & Characterization and Green Materials Chairperson: Assoc. Prof. Dr. Md. Abdul Maleque Co-Chair: Dr. Zahurin Halim Venue: Ballroom 2				
Paper ID: 2021 Facile and Low Cost Synthesis and Characterizations of Metal-Organic Framework (MOF-199) Materials by Nonsurfactant Templating Method <i>N. Mahadi, H. Misran, S. Z. Othman, A. Manap, M. A. Salim, N. N. H. Shah, N. A. A. Razak, N. F. S. Anuar</i> Malaysia	Paper ID: 2103 Effect Copper Concentration on the optical Properties of Cu₂Zn_{0.8}Cd_{0.2}SnS₄ pentrary alloy nanostructures <i>A.S. Ibraheam , Y. Al-Douri , U. Hashim</i> Malaysia	Paper ID: 2025 Effect of Tropical Climate Condition to Compressive Strength and Microstructure Properties of High Performance Fibre Reinforced Reinforced Concrete (HPFRC) <i>Siti Asmahani Saad, Farah Nora Aznieta Abdul Aziz and Maisarah Ali</i> Malaysia	Paper ID: 2110 Green Polyurethane Adhesives for Wood Bonding <i>M. A. F. Amran and Ernie Suzana Ali</i> Malaysia	Paper ID: 2003 The Characterization and Properties of Rattan Waste for Binderless Particleboard Production <i>Maisarah, T., Zuraida, A. , Roszalia, A. and Luqman, M.A</i> Malaysia
15.15 – 15.30	15.30-15.45			
Paper ID: 2082 Effect of Fibre Surface Treatment on the Properties of Eco-Core Sandwich Structures <i>Zahurin Halim, Zuraida Ahmad and Syarifah Nur Adilla Syed Taha</i> Malaysia	Paper ID: 2022 Mechanical Properties of Bamboo Fibre Composite Incorporating Pulverized Fuel Ash <i>Maisarah Ali, Siti Asmahani Saad, Noor Farah Elyani Khairuddin, Ammar Hamzi Sidek and Muhammad Faiz Md. Salim</i> Malaysia			

Parallel Technical Sessions III, Tuesday 23 September 2014: 16.00 - 17.30				
16.00 - 16.15	16.15 - 16.30	16.30 - 16.45	16.45 - 17.00	17.00 - 17.15
IIIA: Manufacturing and Allied Area				
Chairperson: Prof. Ir. Dr. Md. Yusof Ismail Co-chair: Dr. Abdul Malek Abdul Hamid Venue: Meeting Room 3				
Paper ID: 2006 Fundamental Study of Diesel Engine Performance by Implementing Oil from Tropical Kepayang Seeds (Panglum Edule) <i>Khairil, Sulaiman Thalib dan Turmizi</i> <i>Indonesia</i>	Paper ID: 2118 Design and Development of a Versatile Ice Clamping System <i>Rubina Bahar, Nur Adilah Yahya , Tasnim Firdaus Ariff</i> <i>Malaysia</i>	Paper ID: 2029 Microelectrode Design for Particle Trapping on Bioanalysis Platform <i>Siti Noorjannah Ibrahim and Maan M Alkaisi</i> <i>Malaysia</i>	Paper ID: 2097 Microelectrode Design for Particle Trapping on Bioanalysis Platform <i>Siti Noorjannah Ibrahim and Maan M Alkaisi</i> <i>Malaysia</i>	Paper ID: 2143 Experimental Investigation on Magnetorheological Damper's characterization <i>Mohammad Meftahul Ferdous, Muhammad Mahbubur Rashid and Muhammad Hasibul Hasan</i> <i>Malaysia</i>

Parallel Technical Sessions III, Tuesday 23 September 2014: 14.00 – 15.30				
16.00 – 16.15	16.15 – 16.30	16.30 – 14.45	16.45 - 17.00	17.00 - 17.15
IIIB: Metallic Materials Chairperson: Assoc. Prof. Dr. Hanafi Ani Co-chair: Dr. Noor Azlina Hassan Venue: Helang				
Paper ID: 2119 Effect of Sintering Schedule to the Alloyability of FeCrAl Powder Mix Formed at above Ambient Temperature <i>M. M. Rahman and A. A. A. Talib</i> Malaysia	Paper ID: 2053 Crush Zone Morphology of Epoxy-Glass Fiber-Aluminium Composite Columnar Tube due to Longitudinal Crushing Force <i>Perowansa Paruka, Md Hafizil Mat Yasin, Rizalman Mamat, Md Abdul Maleque and Md Kamal Md Shah</i> Malaysia	Paper ID: 2054 Performance Properties of Hybrid Aluminium-Composite Columnar Tube under Axial Crush Force <i>Perowansa Paruka, Md Hafizil Mat Yasin, Rizalman Mamat, Md Abdul Maleque and Md Kamal Md Shah</i> Malaysia	Paper ID: 2123 Effect of Temperature on the Wear Properties of Alloy Steel under Jatropha Curcas Biodiesel <i>Nurul Ain Shaufe, Md Abdul Maleque and Abu Saleh Ahmed</i> Malaysia	Paper ID: 2039 Effect of Niobium on HAZ Microstructure of HSLA Steels <i>Emad El-Kashif , Wan Yusoff and Toshihiko Koseki</i> Malaysia
17.15 – 17.30 Paper ID: 2045 Fracture Behavior Issues of HSLA Pipeline Steels - A. Review <i>M. H. A. Musa, M. A. Maleque, M. Y. Ali, M. H. Hasan</i> Malaysia	17:30-17:45 Paper ID: 2012 Wear and corrosion of composite coated AISI 4340 steel exposed to jatropha curcas biodiesel <i>Md Abdul Maleque, Belal Ahmd ghazal, Md Yeakub Ali , Maan Hayyan^b and Abu Saleh Ahmed</i> Malaysia			

Parallel Technical Sessions III, Tuesday 23 September 2014: 14.00 – 15.30				
16.00 – 16.15	16.15 – 16.30	16.30 – 16.45	16.45 – 17.00	17.00 – 17.15
IIIC: Materials for Energy and Smart Materials Chairperson: Assoc. Prof. Dr. Zuraida Ahmad Co-chair: Sr. Norita Hassan Venue: Ballroom 2				
Paper ID: 2112 Compressive Behaviour of Polyacrylonitrile Fibre Reinforced Lightweight Aggregate Concrete Composite <i>Kim Hung Mo, U. Johnson Alengaram and Mohd Zamin Jumaat</i> Malaysia	Paper ID: 2042 A Piezoelectric Based Energy Harvester With Magnetic Interactions: Modelling And Simulation <i>Dauda Sh. Ibrahim, Asan G.A. Muthalif, Tanveer Saleh</i> Malaysia	Paper ID: 2060 Comparative Study Of Spwm And Hepwm Technlques For Photovoltaic Inverter <i>Bendib D, Akel F, Chikh M, Larbes C, Laour M and Mahrane</i> Algeria	Paper ID: 2036 Fabrication And Characterization Of Graphene From Solid Carbon Dioxide <i>A. Arifutzzaman, I. I. Yaacob, M. A. Hawlader and M. A. Maleque</i> Malaysia	Paper ID: 2083 Effects of Piezoelectric Actuation on Delamination In Transversely Loaded Composite Plates <i>N Ghazali, M S I Shaik Dawood and S M Kashif</i> Malaysia
17.15 – 17.30	17:30-17:45			
Paper ID: 2153 Thermoelastic Solutions for Flexure of Anisotropic Cylindrical Shells <i>J.S. Mohamed Ali</i> Malaysia	Paper ID: 2099 A Light Material for Wind Turbine Blades <i>Souad A. M. AlBat'hi, Yose Fachmi Buys, Muhammad Hazwan Hadzari, Maizatunlisa Othman</i> Malaysia			

DAY 2, Wednesday 24 September 2014
OPENING CEREMONY: 09.00-11.00
TEA BREAK: 11.00-11.30
CONGRESS KEYNOTE SPEAKER 1: 11.30-12.15 Title: Science to Action (S2A) Dr Mohd Yusoff Sulaiman - President & CEO of MIGHT (Malaysian Industry- Government Group for High Technology)
CONGRESS KEYNOTE SPEAKER 2: 12.15-13.00 Title: Mathematical Modelling In Engineering Dr. Shavkat Allimov- Chief Scientist, MIMOS BHD.

Parallel Technical Sessions IV, Wednesday 24 September 2014: 14.00 – 15.30				
14.00 – 14.15	14.15 – 14.30	14.30 – 14.45	14.45 - 15.00	15.00 - 15.15
IVA: Machining				
Chairperson: Prof. Dr. Mustafizul Karim Co-chair: Sr. Nor Khairusshima Khairussaleh Venue: Meeting Room 3				
Paper ID: 2127 Effect of Tool Coatings on High-Aspect-Ratio Microdrilling <i>S. Mohanty, S. Wells, and N.P. Hung</i> <i>United States</i>	Paper ID: 2128 Through-Mask Electrochemical Machining <i>Feng Z., Hung N.P, and Granda E.</i> <i>United States</i>	Paper ID: 2146 Surface Roughness in Drilled Carbon Fiber Reinforced Polymer (CFRP) Composite Using Diamond Coated Ball-nose Drills <i>Mohamed Konneh, Izman Sudin ,Atiah Abdullah Sidek and Muhammad Salahuddin Salleh</i> <i>Malaysia</i>	Paper ID: 2132 Effect of Microwave Sintering Treatment to The Flank Wear of Titanium Carbide Tools in Milling Operations <i>Mohammad Iqbal, Tasnim Firdaus Ariff, Mohd Shahrul Fahmi Bin Mat Roseh, Muataz Hazza Faizi Al-Hazza, Irfan Hilmy and Suryanto</i> <i>Malaysia</i>	Paper ID: 2091 Investigation of Surface Roughness and Material Removal Rate for High Speed Micro End Milling on PMMA <i>Nur Atiqah Abdul Rahman Azmil</i> <i>Malaysia</i>
15.15 – 15.30				
Paper ID: 2087 Investigation of MRR in Micro-EDM of Non-Conductive Ceramic <i>B. Asfana, M.Y. Ali and A.R. Mohamed</i> <i>Malaysia</i>				

Parallel Technical Sessions IV, Wednesday 24 September 2014: 14.00 - 15.30				
14.00 - 14.15	14.15 - 14.30	14.30 - 14.45	14.45 - 15.00	15.00 - 15.15
IVB: Coatings				
Chairperson: Dr. Zahurin Halim Co-chair: Dr. Noorasikin Samat Venue: Helang				
<p>Paper ID: 2076</p> <p>Production of Carbon via Electrochemical Conversion of CO₂ in Carbonates Based Molten Salt</p> <p><i>Miron Gakim, Lam Mun Khong, Jidon Janaun, Willey Liew Yun Hsien and Nancy Julius Siambun</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2034</p> <p>Formation of Hydrophobic Surface Using 2 Stages Electrodeposition Method</p> <p><i>Mohd Hanafi Ani, Nor Shahirah Ramli, Wan Ahmad Yusmawiza Wan Yusoff, Yasir Mohd Mustafah and Raihan Othman</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2035</p> <p>Surface Features Of Tig Melting Coated Cp-Titanium</p> <p><i>S.A. Adeleke and M.A. Maleque</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2144</p> <p>Physical Properties of Electroless Nickel-Tungsten Coating On Mild Steels Obtained from Acetic Bath</p> <p><i>Mahmood, M.H., Harun, N.M, Suryanto</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2145</p> <p>Effects Of Surfactant On Corrosion Behavior Of Carbon Steel In Simulated Eor Crude Oil</p> <p><i>Zakaria, M. I., Suryanto and Ani, M.H.</i></p> <p><i>Malaysia</i></p>
15.15 - 15.30				
<p>Paper ID: 2155</p> <p>Effect of Temperature on the Optical and Morphological Properties of Zinc Oxide Thin Films Prepared by RF Magnetron Sputtering</p> <p><i>Souad A. M. Al-Bat'hi and Maizatunisa Othman</i></p> <p><i>Malaysia</i></p>				

Parallel Technical Sessions IV, Wednesday 24 September 2014: 14.00 – 15.30				
14.00 – 14.15	14.15 – 14.30	14.30 – 14.45	14.45 – 15.00	15.00 – 15.15
IVC: Polymer				
Chairperson: Assoc. Prof. Ir. Dr. Maisarah Ali		Co-chair: Dr. Yose Fachmi		Venue: Ballroom 2
<p>Paper ID: 2106</p> <p>Numerical and Experimental Investigation of Tensile Properties of Natural-Sand Reinforced Polypropylene</p> <p><i>Ahmed N. Oumer, Idris Mat Sahat, Muhammad Ammar Nik Mu'tasim, and Tedi Kurniawan</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2064</p> <p>Physical & Mechanical Properties Of Waste Sawdust Polymer Composite For Marine Application</p> <p><i>Muhammad Abd Mun'aim Mohd Idrus, Mohamad Fadhil Safy Othman</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2075</p> <p>A Study on the Mechanical and Thermal properties of ENR filled with Dual Fillers</p> <p><i>Mohd Khairulniza Mansor, Dayang Habibah Abang Ismawi Hassim</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2026</p> <p>Mechanical and Physical Properties of Sago Starch /Halloysite Nanocomposite Film</p> <p><i>Zuraida Ahmad, Hazwan Yatimi Hermain and Nur Humairah Abdul Razak</i></p> <p><i>Malaysia</i></p>	<p>Paper ID: 2073</p> <p>SEM Analysis of Kenaf Sandwich Panel</p> <p><i>Zahurin Halim, Maizatunisa Othman and Siti Khadijah Abdul Rahman</i></p> <p><i>Malaysia</i></p>
15:15-15:30				
<p>Paper ID: 2159</p> <p>Conductive Polymer Composites from Polylactic Acid / Natural Rubber Filled with Carbon Black</p> <p><i>Yose Fachmi Buys and Nor Afiza Syafina Lokman</i></p> <p><i>Malaysia</i></p>				

Parallel Technical Sessions V, Wednesday 24 September 2014: 16.00 – 17.30				
16.00 – 16.15	16.15 – 16.30	16.30 – 16.45	16.45 – 17.00	17.00 – 17.15
VA: Optimization				
Chairperson: Prof. Dr. Ahsan Ali Khan Co-chair: Dr. Mohamed Abdul Rahman Venue: Helang				
Paper ID: 2032 Energy cost Optimization in High Speed Hard Turning Using Simulated Annealing Algorithm <i>Muataz Hazza F. Al Hazza, Erry Y.T. Adesta, Muhammad H Hasan Norhashimah Shaffiar</i> <i>Malaysia</i>	Paper ID: 2033 Using the Desirability Function as an effective Tool in Target costing model <i>Muataz Hazza F. Al Hazza, Mohamed Konneh, Mohammad Iqbal, Assem Hatem Taha, Muhammad H Hasan</i> <i>Malaysia</i>	Paper ID: 2102 Multi objective Optimisation for High Speed End Milling using Simulated Annealing Algorithm <i>Muataz Hazza F. Al Hazza , Amin M. F. Seder , Erry Y.T. Adesta , Mohammad Riza, N.M. Shaffiar</i> <i>Malaysia</i>	Paper ID: 2071 Transfer Function Prediction of a Lithium Iron Phosphate Battery with Ant Colony Optimisation <i>Siti Fauziah Toha</i> <i>Malaysia</i>	Paper ID: 2130 Optimization of Tool Wear Using Coupled RSM-GA Approach in Turning of Stainless Steel AISI 304 with Magnetic Damping of Tool Shank <i>A.K.M. Nurul Amin, Siti Aminatuzhriyah B. Haji Subir, and Muammer D. Arif</i> <i>Malaysia</i>
17.15 – 17.30	17:30-17:45			
Paper ID: 2135 Clustering Using Genetic Algorithm-Based Self Organising Map <i>Azmi Hassan, Muhammad RidwanAndi Purnomo and PutriDwi Annisa</i> <i>Malaysia</i>	Paper ID: 2134 Parameter Optimization of VMI system In a Manufacturer and Multi Retailer using Genetic Algorithm <i>Azmi Hassan , Chairul Saleh , Baba Md Deros, Mohd Nizam Ab Rahman , Raden Achmad Chairdino Leuveano, Andra Adiyoga</i> <i>Malaysia</i>			

Parallel Technical Sessions V, Wednesday 24 September 2014: 14.00 – 15.30				
16.00 – 16.15	16.15 – 16.30	16.30 – 14.45	16.45 - 17.00	17.00 - 17.15
VB: Manufacturing and Allied Area Chairperson: Dr. Mohd. Radzi Che Daud Co-chair: Sr. Atiah Abdullah Sidek Venue: Meeting Room 3				
Paper ID: 2161 Performance Analysis of Heat Pipe Heat Exchanger for Solar Hybrid Desiccant Air-Conditioning System <i>Zuraini Mohd Enggsa, Arfidian Rachman ,Lisa Nesti, Sohif Mat, Kamaruzzaman Sopian</i> <i>Malaysia</i>	Paper ID: 2055 Mini-ATX Computer System in Vehicle <i>Muhammad Sami and Akram M. Zeki</i> <i>Malaysia</i>	Paper ID: 2113 Development of Design Structure Matrix of a Product Architecture. Case Study: Multi Purpose CNC Router <i>Irfan Hilmy, Erry Yulian T. Adesta, Nur'atiah Najwa Binti Samsul Bahrim, Aini Nurrasyidah Binti Azhar, Siti Fatimah Binti Mohd Shahar</i> <i>Malaysia</i>	Paper ID: 2088 Formulation of an IP-based model for reactive flow-shop scheduling problem subject to arrival of new orders <i>M. Abdesselam, A. N. M. Karim, H. M. Emrul Kays, M. A. Rahman</i> <i>Malaysia</i>	Paper ID: 2096 Ranking of Manufacturing Attributes Affecting Bread Quality: Application of Analytic Hierarchy Process <i>M. N. B. A. Nazri, M. Haque, A. N. M. Karim, Fatima. B. Muhamad</i> <i>Malaysia</i>

Parallel Technical Sessions V, Wednesday 24 September 2014: 14.00 – 15.30				
16.00 – 16.15	16.15 – 16.30	16.30 – 14.45	16.45 - 17.00	17.00 - 17.15
VC: Polymer Chairperson: Prof. Dr. Iis Sopyan Co-chair: Dr. Souad A. Mohamad Venue: Ballroom 2				
Paper ID: 2009 Polyhydroxybutyrate Filled Clamshells Biofiller: Effect of Polyvinylpyrrolidone <i>Mohd Yusoff Hashim, Maizatunisa Othman, Nor Azowa Ibrahim Khalisanni Khalid, Souad A. Mohamad</i> <i>Malaysia</i>	Paper ID: 2040 Effect of Clamshells Filler Loading on the Properties of Polyhydroxybutyrate <i>Mohd Yusoff Hashim, Maizatunisa Othman, Nor Azowa Ibrahim, Khalisanni Khalid, Souad A. Mohamad</i> <i>Malaysia</i>	Paper ID: 2139 Morphology and Mechanical Properties of MIM Feedstock Using TPNR Backbone Binder <i>Norita Hassan, Sahrim Ahmad, Norhamidi Muhamad, Mohd Afian Omar, Noor Azlina Hassan</i> <i>Malaysia</i>	Paper ID: 2138 The Effects of Various TPNR Binder Compositions on Feedstock Preparation for MIM Process <i>Norita Hassan, Sahrim Ahmad, Norhamidi Muhamad, Mohd Afian Omar, Noor Azlina Hassan</i> <i>Malaysia</i>	Paper ID: 2140 Mechanical Properties of Kenaf Core Sandwich Panel Toughened with Modified Epoxy <i>J.N.Hasnidawani, H.N.Azlina, H.Norita, H. Zahurin, A. Zuraida</i> <i>Malaysia</i>
17:15-17:30				
Paper ID: 2141 Thermal Analysis of Kenaf core Sandwich Panel toughened with modified epoxy <i>J.N.Hasnidawani, H.N.Azlina, H.Norita, H. Zahurin, A. Zuraida</i> <i>Malaysia</i>				

Parallel Technical Sessions VI, Thursday 25 September 2014: 09.00 – 10.30				
09.00 – 09.15	09.15 – 09.30	09.30 – 09.45	09.45 - 10.00	10.00 - 10.15
VIA: Manufacturing and Allied Area Chairperson: Dr. Muataz Hazza Co-chair: Sr. `Atiah Abdullah Sidek Venue: Helang				
Paper ID: 2162 Trans-esterification of Crude Palm Oil Liquid Waste to Biodiesel <i>Harmiwati and Dedy Rahmad</i> <i>Malaysia</i>	Paper ID: 2090 Tensile and statistical analysis of sisal fibers for natural fiber composite manufacture <i>Md. Masudur R Abir, S. M. Kashif, M. S. I. Shaik Dawood, and Md. Abdur Razzak</i> <i>Malaysia</i>	Paper ID: 2136 Adoption And Adaptation Of Japanese Manufacturing Management: A Case Study Of An Automotive Company In Malaysia <i>A.K.M. Mohiuddin, Mohamed A. Rahman and Julia Bt Haji A. Jabar</i> <i>Malaysia</i>	Paper ID: 2046 IIUM CubeSat Structural Subsystem Design <i>Siti Sarah Isharuddin, Mohamed Okasha and Mohd Sultan Ibrahim</i> <i>Malaysia</i>	Paper ID: 2107 Finite Element Analysis of Tensile Test for HDPE/EP- MMT Nanocomposite <i>N.M. Shaffiar, M.K.A. Halim, H. Anuar and M.A.H.A. Majid</i> <i>Malaysia</i>
10:15-10:30				
Paper ID: 2111 Finite Element Analysis of HDPE/EPR-CNT Nanocomposite under Tensile Loading <i>N.M. Shaffiar, M.A. Hasnan, H. Anuar and Muataz Hazza F. Al Hazza</i> <i>Malaysia</i>				

Parallel Technical Sessions VI, Thursday 25 September 2014: 9.00 – 10.30				
09.00 – 09.15	09.15 – 09.30	09.30 – 09.45	09.45 - 10.00	10.00 - 10.15
VIB: Manufacturing and Allied Area Chairperson: Dr. Israd Hakim Jaafar Co-chair: Dr. Mohammad Iqbal Venue: Meeting Room 3				
Paper ID: 2156 Six Sigma Approach to Improve the Painting Process: A Case Study of A Malaysian Vehicle Assembly Company <i>Mohamed A. Rahman, A.K.M. Mohiuddin Md Yahya and Hanani Abdullah</i> <i>Malaysia</i>	Paper ID: 2005 Cost Analysis of Using Hybrid Microwave Post-Sintered Silicon Nitride Inserts <i>Tasnim Firdaus Ariff, Mohamad Iqbal and Rubina Bahar</i> <i>Malaysia</i>	Paper ID: 2163 Production and Chemical Compounds of Gaharu Extract by Using Supercritical Fluid Extraction (SFE) Of Unsoaked Gaharu at Different Pressure <i>Mohd Radzi Haji Che Daud, Huzaifah Hamdan</i> <i>Malaysia</i>	Paper ID: 2157 Magnetic Damping in Turning of Stainless Steel AISI 304 for the Reduction of Machining Vibration and Tool Wear <i>A.K.M. Nurul Amin, Muamer D. Arif, Siti Aminatuzzuhriyah Subir and Fawaz Mohsen Abdullah</i> <i>Malaysia</i>	Paper ID: 2158 Effect of Organic Loading Rate (OLR) of Slurry On Biogas Production Quality <i>Maizirwan Mel, Nadiah Mohd Suhuli, Avicenna, Sany Izan Ihsan, Ahmad Faris Ismail and Sarifah Yaacob</i> <i>Malaysia</i>
10:15-10:30				
Paper ID: 2050 A Case Study on Business and Operation Environmental Assessment In Malaysia and UK Metal and Fabrication SMEs <i>Atiah Abdullah Sidek, Atikah Abdullah and Chris J. Backhouse</i> <i>Malaysia</i>				

Parallel Technical Sessions VI, Thursday 25 September 2014: 9.00 – 10.30				
09.00 – 09.15	09.15 – 09.30	09.30 – 09.45	09.45 - 10.00	10.00 - 10.15
VIC: Nanomaterials Chairperson: Assoc. Prof. Dr. Suryanto Co-chair: Sr. Norita Hassan Venue: Ballroom 2				
Paper ID: 2002 Characterization and Preparation of Sago Starch Based Reinforced with Silver Nanoparticle <i>Zuraida, A., Ahmad Ulwi, A.K., Maisarah, T., Maisarah, A</i> <i>Malaysia</i>	Paper ID: 2019 Effect of Dispersants on Microstructures of Nano Alpha Alumina Developed from Aluminium Dross Waste <i>S. Anis Sofia , N. Samat and M. S. Meor Yusoff</i> <i>Malaysia</i>	Paper ID: 2037 Effect of voltage on colloidal gold (Au) nanoparticles produced using electro-dissolution-reduction method <i>H. Haiza, I.I Yaacob, Ahmad Zahirani Ahmad Azhar</i> <i>Malaysia</i>	Paper ID: 2038 Gamma Irradiated Starch Based Hydrogel Impregnated With Silver Nanoparticle <i>Fayezeh Eslami, Zuraida Ahmad and NurHumairah Abdul Razak</i> <i>Malaysia</i>	Paper ID: 2081 The Effects of Coupling Agent on the Flame Retardant Properties of PP/ATH Nanocomposites <i>Fatimah A'thiyah Sabaruddin, N. Samat, And A.I.H Dayang Habibah</i> <i>Malaysia</i>
10.15 – 10.30	10:30-10:45			
Paper ID: 2098 Morphology Of Cnt-Al Nanocomposite Under Different Ball Milling Parameters <i>M. A. Maleque, U. Abdullahi and M. Y. Ali</i> <i>Malaysia</i>	Paper ID: 2086 Effect of Nanofiller on Flexing Mechanism of HDPE/EPR Nanocomposite for Sport Shoe Sole Application <i>Husniyah Aliyah Lutpi, Hazleen Anuar, Norhashimah Mohd Shaffiar</i> <i>Malaysia</i>			

Parallel Technical Sessions VI, Thursday 25 September 2014: 11.00 – 12.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 – 12.00	
VIIA: Machining				
Chairperson: Dr. Tasnim Firdaus Ariff		Co-chair: Dr. Sharifah Imihezri		Venue: Helang
Paper ID: 2030 The effects of Slding Parameters on Dry Wear Characteristics of Ti-6Al-4V Alloy <i>Mohammed Baba Ndaliman Malaysia</i>	Paper ID: 2116 Investigation Of Silcon Wafer Thinning Operation Method Result And Analysis <i>M.A. Safaruddin, S.F.M. Shaharb, I.H. Jaafar Malaysia</i>	Paper ID: 2164 LEADME : An Educational Software for Composite Laminate Analysis and Design <i>J.S.Mohamed Ali, Abeid Abeid Rubeya Malaysia</i>	Paper ID: 2137 Tool Wear During Milling Laminated Carbon Fibre Reinforced Plastic <i>M.K. Nor Khairusshima, A.K.M Amin, C.H. Che Hassan , A.G. Jaharah Malaysia</i>	

Parallel Technical Sessions VI, Thursday 25 September 2014: 11.00 – 12.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 – 12.00	
VIIIB: EDM				
Chairperson: Assoc. Prof. Dr. Mohamed Konneh		Co-chair: Dr. Abdul Malek Abdul Hamid		Venue: Meeting Room 3
Paper ID: 2010 Effect Of Powder Concentration On Edm Performance During Machining Mild Steel <i>Ahsan Ali Khan, Nurfarah Wahid Azmi, Mohd Azim Odenan and Zakatia Mohd Zain Malaysia</i>	Paper ID: 2011 Surface Quality Produced In EDM with Tungsten Carbide and Copper Compacted Electrodes <i>Ahsan Ali Khan, Mohammed Baba Ndaliman, Ummu Atiqah Khairiyah Binti Mohamad, Nurul Farhana Binti Sulong And Zakaria Mohd Zain Malaysia</i>	Paper ID: 2014 Effect of Gap voltage and Pulse-On time on Material Removal Rate for Electrical Discharge Machining of Al₂O₃ <i>M.A. Moudood Malaysia</i>	Paper ID: 2092 Investigation of Surface Roughness In Micro-EDM of Nonconductive ZrO₂ Ceramic with Powder Mixed Dielectric Fluid <i>Abdus Sabur Malaysia</i>	

Parallel Technical Sessions VI, Thursday 25 September 2014: 11.00 – 12.00				
11.00 – 11.15	11.15 – 11.30	11.30 – 11.45	11.45 – 12.00	
VIIIC: Biomaterials				
Chairperson: Dr. Noorasikin Samat		Co-chair: Dr. Yose Fachmi		Venue: Ballroom 2
Paper ID: 2057 Structural applications and emerging trends of nano- and biocomposites: a review <i>Sazib Mollik, Irum Tariq, Muhammad H Hasan</i> <i>Malaysia</i>	Paper ID: 2058 Sol-Gel Derived Zinc doped Calcium Phosphate Bioceramics Prepared via Different Sintering Strategies <i>Gunawan and I. Sopyan</i> <i>Malaysia</i>	Paper ID: 2059 Thermal Analysis of the Dehydroxylation of a Sol-Gel Derived Zinc doped Calcium Phosphate Powders <i>Gunawan and I. Sopyan</i> <i>Malaysia</i>	Paper ID: 2129 The Glass Transition Temperature of Iron and Titanium Containing Phosphate Based Glasses <i>S.I.S. Shaharuddin, I. Ahmed, D. Furniss, A.J. Parsons, C.D. Rudd,</i> <i>Malaysia</i>	

ICAMME Keynote Sessions, Thursday 25 September 2014: 12.00 – 12.45		
12.00 – 12.45		
Keynote Session 3		
Chairperson: Prof. Dr. Iskandar Idris Yaakob	Co-chair: Assoc. Prof. Dr. Hadi Purwanto	Venue: Ballroom 2
Assoc. Prof. Dr. Md Abdul Maleque Contemporary Light Weight Composite Material: Milestone towards Automotive Brake Rotor Application		