

Tuesday 20th August 2019 (Day 1)	
15.00 – 17.00	Registration (Grand Ballroom Entrance)

Wednesday 21st August 2019 (Day 2)	
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8.00 – 8.40	Registration (Grand Ballroom Entrance)
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8.40 – 8.45	Safety Briefing <b>Grand Ballroom</b>
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9.00 – 9.10	Emcee Opening -Dr. Farhana Binti Mohd Foudzi Doa Recitation - Mr. Azli Arifin
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9.10 – 10.15	<b>Welcoming Speech</b> Prof. Ir. Dr. Ahmad Kamal Ariffin Mohd Ihsan (Chairman of MEMC2019) <b>Grand Ballroom</b>
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	<b>Opening Speech</b> Prof. Ir. Dr. Mohd Hamdi Abdul Shukur (Vice-Chancellor, Universiti Kebangsaan Malaysia) <b>Grand Ballroom</b>
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	<b>Keynote 1: Malaysian Automotive Industry in The Era of IR4.0: Opportunities, Challenges and The Way Forward.</b> Dato' Madani Sahari (CEO, Malaysia Automotive, Robotics and IoT Institute, Malaysia) <b>Grand Ballroom</b> (Chairperson: Prof. Ir. Dr. Ahmad Kamal Ariffin Mohd Ihsan)
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	Token of Appreciation & Photo Session
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10.15 – 10.45	<b>Coffee Break</b>
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10.45 – 11.25	<b>Keynote 2: Severe Plastic Deformation Under High Pressure for Producing Enhanced Mechanical and Functional Properties</b> Emeritus Prof. Dr. Zenji Horita (Kyushu Institute of Technology, Japan) <b>Grand Ballroom</b> (Chairperson: Assoc. Prof. Dr. Zainuddin Sajuri)
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11.25 – 12.05	<b>Keynote 3: Fuel Economy Standards and Labels. The Way Towards an Energy Efficient Automotive Transportation</b> Distinguished Prof. Dr. T.M. Indra Mahlia (University of Technology Sydney, Australia) <b>Grand Ballroom</b> (Chairperson: Assoc. Prof. Dr. Zainuddin Sajuri)
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12.05 -12.10	Session interchange					
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Room	Grand Ballroom	Cempaka I	Cempaka II	Cempaka III	Matahari I	Matahari II
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Sessions	ReCAR-Traffic Transport / Safety	APSIM- Manufacturing	SDMMS -Fracture Toughness /Composite	NAE -3D Fatigue	NAE - Heat transfer/ Nanofluid	APSIM- Mechanical Properties
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Chairperson	Mr. Azhar Hamzah	Assoc. Prof. Dr. Erwin Sulaeman	Prof. Dr. Aidy Ali	Dr. Mohammad Rasidi Mohammad Rasani	Dr. Mohd Shamil Shaari	Dr. Kaveh Edalati
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12.10 – 12.30	<b>RO24 (Invited Paper)</b> Comparison of Price and Enhanced Safety Features for Top 5 Affordable Vehicles in Malaysia	<b>P001</b> Adaptive control of a 3-Dimensional simulated model of six-Degree of Freedom Lower Limb Exoskeleton	<b>S015 (Invited Paper)</b> Thickness-dependent Non-Fickian Moisture Absorption Model: Applications and Limitations	<b>N010</b> Effect of Including Periodic Boundary Condition on the Fatigue Behavior of Cancellous Bone	<b>N031</b> Fatigue Crack Growth Prediction Using S-version Finite Element Method for AISi10Mg: An Additive Manufacturing Material	<b>P068</b> Mechanical Properties and Microstructure Changes Of AA5052 Alloy Processed by High-Pressure Torsion
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	<i>Khairil Anwar Abu Kassim, Najihah Wahi, Yahaya Ahmad, Zulhaidi Mohd Jawi and Mohd Radzi Abu Mansor</i>	<i>Mohammad Soleimani Amiri, Rizauddin Ramli, Mohd Faisal Ibrahim</i>	<i>K.J. Wong, H.A. Israr and M.N. Tamin</i>	<i>Fatihhi S. J. Szali Januddi, Ardiyansyah Syahrom, Muhamad Noor Harun</i>	<i>Mohd Shamil Shaari, Ahmad Kamal Ariffin Mohd Ihsan, Akiyuki Takahashi, Mohd Akramin Mohd Romlay, Shahrum Abdullah, Muhamad Husnain Mohd Noh</i>	<i>Intan Fadhlina Mohamed, Zenji Horita, Mohd Zaidi Omar, Wan Fathul Hakim Wan Zambri, Cheeranan Krutsuwan Nuphairode</i>
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12.30 – 12.45	<p><b>R075</b> Inclusive Evaluation of N1 Category Vehicle Safety Performance Tested by Consumer Crash Testing Program</p> <p>Mohd Hafiz Johari, Khairil Anwar Abu Kassim, Yahaya Ahmad, Nor Kamaliana Khamis, Mohd Radzi Abu Mansor</p>	<p><b>P005</b> Evaluation of Tool Wear and Machining Performance by Analyzing Vibration Signal in Friction Drilling</p> <p>Mohd Zurrayen Abdul Mutalib, Mohd Idris Shah Ismail, Azizan As'arry, Nawal Aswan Abdul Jalil</p>	<p><b>S007</b> Mode I and Mode II Fracture Toughness Enhancement of Carbon Fiber-reinforced Composites by Using Graphene and MWCNTs under Different Densities</p> <p>Bin Liu, Nongyue Gao and Shuanghui Cao</p>	<p><b>N018</b> Numerical Analysis of Car Bumper Beam Polymer Foam Composite Reinforced by TKKS Fiber and Al<sub>2</sub>O<sub>3</sub> as a Result of Impact Load</p> <p>Ria Dini Wanty Lubis, Bustami Syam, Maraghi Multaqqin, Safri Gunawan, Supriadi</p>	<p><b>N015</b> A Review On Molecular Dynamics Simulation of Joining Carbon-Nanotubes and Nanowires</p> <p>Mohammed N Abdulrazaq, Mohamad Zaenudin</p>	<p><b>P004</b> Surface Characterization of Heat-Affected Zone in Robot-Based Incremental Sheet Forming</p> <p>Nazarul Abidin Ismail, Mohd Idris Shah Ismail, Mohd Khairil Anwar Mohd Ariffin, Azizan As'arry</p>
12.45 – 13.00	<p><b>R057</b> Understanding Motorcycle Lane Positioning in Mixed-traffic Environment</p> <p>Azhar H., Mohd Syazwan S., Aqbal Hafeez A., Noor Faradila P., Muhamad Syukri A.K., Aziemah A., Noradrenalina I., Imanaga H., Ishida H., Khairil A.A.K., Siti Zaharah I.</p>	<p><b>P052</b> Conceptual Design of FDM 3D Printer's Heated Bed Levelling Tool by Using TRIZ Inventive Solution Approach</p> <p>Rudi Kurniawan Arief, Irfan Hilmy, Erry Y.T. Adesta, Erwin Sulaeman</p>	<p><b>S014</b> Modelling and Predicting the Fatigue Life of Laminated Composites</p> <p>Aidy Ali, Faiz Othman, M. F. Abdullah and M. K. Faidzi</p>	<p><b>N047</b> Hardening Model of Severe Plastically Deformed AA2024 by High-pressure Torsion</p> <p>Fauziana Lamin, Ahmad Kamal Ariffin, Intan Fadhlina Mohamed, Cheeranan Krutsuwan</p>	<p><b>N004</b> Turbulent Forced Convective Heat Transfer Using Nanofluids in Divergent-Convergent Minichannel Heat Sink: Numerical Analysis</p> <p>Nura Muhammad Muaz, Nor Azwadi Che Sidik</p>	<p><b>P011</b> Influence of Modified Clay on Properties of Eco-friendly PU Flame Retardant</p> <p>Mohd Hafiz Mohd Ali, Hamimah Abd.Rahman, Bahari M.F.S, Azmi, M.A., Husain, H.</p>
13.00 – 14.15	Lunch					
Room	Grand Ballroom	Cempaka I	Cempaka II	Cempaka III	Matahari I	Matahari II
Sessions	ReCAR-Applied Mechanics/ Control	ReCAR-Thermofluids/ Combustion	SDMMS - SIF/ FE Model/ Crack	ReCAR-Safety/ Traffic/ Ergonomic	NAE - Heat Transfer/ Nanofluid	APSIM - Particulate Materials
Chairperson	Assoc. Prof. Dr Mohd Zaki Nuawi	Dr. Rifqi Irzuan	Dr. Wong King Jye	Dr. Mohd Radzi Abu Mansor	Prof. Dr. Prakash Thamburaja	Assoc. Prof. Dr. Sufizar Ahmad
14.15 – 14.35	<p><b>R018</b> System Configuration of Instrumental Half-Scaled Armoured Vehicle to Enhance Handling Performance due to Lateral Firing Impact</p> <p>Vimal Rau Aparow, Khisbullah Hudha, Mohd Sabirin Rahmat, Zulkiffli Abd Kadir, Noor Hafizah Amer</p>	<p><b>R009</b> Simulation of Bypass Electric Water Pump to Reduce the Engine Warm-up Time</p> <p>Rifqi Irzuan Abdul Jalal, Mohd Anwar Mohd Yusoff, Hasan Muhamad Abid Hasan</p>	<p><b>S010 (Invited Paper)</b> Selection of Repair Strategy Based on Pressure Vessel Wall Thickness Decrement Sensitivity Assessment</p> <p>Hashim Bin Othman and Ir Hambali Chik</p>	<p><b>R076</b> Willingness to Purchase Safer Vehicles Among B40 User: A View from the Implementation of ELV Policy</p> <p>Mohd Radzi Abu Mansor, Khairil Anwar Abu Kassim and Zulhaidi Mohd Jawi</p>	<p><b>N007</b> Nudged Elastic Band Analysis of Activation Energy of Kink-Pair Nucleation in BCC Iron</p> <p>Yuma Mori, Akiyuki Takahashi</p>	<p><b>P027</b> Effect of Mechanical Properties with Addition of GNPs in Cu/GNPs Composite</p> <p>M.O.A. Rashid, N. Muhamad, A.B. Sulong and N. Kadiman</p>
14.35 – 14.50	<p><b>R021</b> Development of Path Tracking Control of A Tracked Vehicle for An Unmanned Ground Vehicle (UGV)</p> <p>Muhammad Akhimullah Subari, Khisbullah Hudha, Zulkiffli Abd Kadir, Noor Hafizah Amer.</p>	<p><b>R070</b> Turbulence Research at Universiti Kebangsaan Malaysia: Experimental Set Ups, Challenges and Contributions</p> <p>Zambri Harun, Mohammad Rasidi Rasani, Wan Aizon W Ghopa. Ashraf Amer Abbas, Eslam Reda Lotfy, Razieh Khaksari Haddad, Tajul Ariffin Norizan, M. Izhar Ghazali, Alaa Abdulrazaq</p>	<p><b>S009</b> Deformation Analysis of Cracked CFRP Cross-Ply Laminates</p> <p>M.J. Mohammad Fikry, Shinji Ogihara, Vladimir Vinogradov</p>	<p><b>R010</b> Designing Graphical User Interface for Decision Support System of Driving Fatigue</p> <p>Mohammad Firdaus Ani, Seri Rahayu Binti Kamat, Minoru Fukumi; Mohamad Minhat, Kalthom Husain, Abu Abdullah</p>	<p><b>N005</b> A Robust Stabilization Control of a Nonlinear Magnetic Levitation System Based on LMI</p> <p>N. M. Tahir, M. Muhammad, S. Buyamin, A. Y. Babawuro, U. Zangina</p>	<p><b>P030</b> Preparation and Characterization of Epoxidized Natural Rubber / Acrylonitrile-Butadiene-Styrene (ENR/ABS) Membrane by Electrospinning</p> <p>Mahathir Mohamed, Abu Bakar Sulong, Mohd Safian Alias, Mohd Hamzah Harun</p>

14.50 – 15.05	<b>R006</b> A Car Following Model Considering Vehicle Dynamic Features  <i>Xiaoyi Ma, Xiaowei Hu, Mira Schueller, Dieter Schramm.</i>	<b>R042</b> A Review of the Tools and Design Techniques Employed for Design Optimization of Turbine Blades  <i>Sajjad Hussain, Wan Aizon Wan Ghopa</i>	<b>S019</b> A Fatigue Life Assessment of Automotive Coil Spring and Lower Arm due to Road Surface Contours  <i>Teuku Edisah Putra, Husaini and Muhammad Ikbal</i>	<b>R071</b> Assessing the Safety Learning Behaviour of the Express Bus Driving Condition from the Passenger's Perspective  <i>A.H. Azman, S. Abdullah, S.S.K. Singh, M.R.M. Yazid, H. Hishamuddin, W.A.W. Ghopa, A.H. Shahrir, A.K. Ariffin and D.A. Wahab</i>	<b>N030</b> Heat Transfer Characteristics of Nanofluid Cooled Microchannel Sawtooth Cooling Device  <i>Shugata Ahmed, Erwin Sulaeman, Ahmad Faris Ismail, Muhammad Hasibul Hasan</i>	<b>P032</b> Effects of Multijet 3D Printing Orientations on Part Strength  <i>Zaliha Wahid, M.A.M. Akhairo, B.T.H.B. Tuah, M.Norhamidi, S.Abu Bakar</i>
15.05 – 15.20	<b>R026</b> Modelling of Actuation System in Electro-Mechanical Friction Clutch for Automotive  <i>Mohd Salman Che Kob, Izhari Izmi Mazali, Zul Hilmi Che Daud, Zainab Asus, Intan Zaurah Mat Darus.</i>	<b>R049</b> Geometrical and Flow Parameters of Pulsed Twin Circular Jet for Heat Transfer Enhancement  <i>Ahmad Fadhil Ismail, Rozli Zulkifli, and Shahrir Abdullah</i>	<b>S027</b> Deep Learning Based Single-stage Convolutional Neural Network for Crack Detection  <i>Hongyu Li, Xueling Fan and Tiejun Wang</i>	<b>R051</b> Value-embedded Model for Human Factors Error in Express Bus Services  <i>M. Khalid M. Nasir, Rosseni Din, Faridah Yunus &amp; Nabilah Othman</i>	<b>N014</b> Optimal Control of Inverted Pendulum on Cart System  <i>A.U. Sambo, Faisal S. Bala, Nura M. Tahir, Adamu Y. Babawuro</i>	<b>P050</b> Fiber Insert Mould for Injection Moulding  <i>Norjamalullail Tamri, Rozli Zulkifli</i>
15.20 – 15.35	<b>R048</b> The Influence of Abnormal Tread Friction on the Lateral Characteristics of Radial Tire  <i>Xufei Wang, Chongyang Zhang, Jurong Liu, Meng Wang, Fei Tan</i>	<b>R050</b> Heat Transfer Investigation on Flat Surface Cooling Under The Influence of Nano-Fluid Jet Impinging  <i>Muhammad Imran Sadiq, Wan Aizon W Ghopa, B. D. Knowlden, Rozli Zulkifli, Zambri Harun, Mohd Radzi Abu Mansor, Wan Fathul Hakim W. Zamri</i>	<b>S030</b> Average Frequency - RA Value for Damage Classification of Damaged Reinforced Concrete Beam Strengthened with Carbon Fibre Reinforced Polymer.  <i>Soffian Noor M.S., Noorsuhada M.N., Che Muhamad Hazizie C.M., Fatin Liyana M.Z, and Arip J</i>	<b>R043</b> Express Bus Assessment Mobile Application  <i>Mohammad Khatim Hasan, Meng Chun Lam, Rosilah Hassan.</i>	<b>N017</b> Identification of Distribution Type of Abaca Fiber Tensile Strength  <i>Hiroomi Hamma, Suardi Suardi, Hiroki Hamma</i>	<b>P053</b> Mechanical Properties of Unidirectional Kenaf Yarn Reinforced PLA under Heat Effect  <i>Meor Syazalee Meor Sha, Rozli Zulkifli, Badruzamin Mohd Yassin</i>
15.35 – 15.50	<b>R023</b> Fiber Fault Detection & Fiber Line Monitoring Using IoT For FTTH  <i>Muhammad Ridwan Zainul Ariffin and Siti Asma Che Aziz</i>	<b>N048</b> Aerodynamic Study of Three Cars Using Computational Fluid Dynamics  <i>Haniff Bin Abdul Rahman and Mohammad Rasidi Rasani</i>	<b>N052</b> Study on Social Parameter in Detecting Corrosion Location of Reinforced Concrete Using Inverse Analysis  <i>Syarizal Fonna, Ahmad Julianda, Rudi Kurniawan and Syifaul Huzni</i>	<b>R015</b> Pedestrian Crossing Behaviour While Distracted with Mobile Phone at Signalised and Unsignalised Intersections in City of Kuala Lumpur  <i>Nor Kamaliana Khamis, Mohd Syazwan Salah, NoorFaradila Paiman</i>	<b>N006</b> Numerical Investigation on Freezing of Phase Change Material (PCM) Dispersed with Various Nanoparticles Inside a Square Enclosure  <i>Hao Kean Tung, Nor Azwadi Che Sidik</i>	
15.50 – 16.15	<b>Session Interchange and Coffee Break</b>					
<b>Room</b>	<b>Grand Ballroom</b>	<b>Cempaka I</b>	<b>Cempaka II</b>	<b>Cempaka III</b>	<b>Matahari I</b>	<b>Matahari II</b>
<b>Sessions</b>	<b>ReCAR - NVH/ Control/ Traffic</b>	<b>APSIM - Manufacturing/ Ergonomics</b>	<b>ReCAR - Advanced Manufacturing</b>	<b>NAE - Engineering Application</b>	<b>NAE - Heat transfer/ Nanofluid</b>	<b>APSIM - Powder Metallurgy</b>
<b>Chairperson</b>	<b>Dr. Vimal Rau Aparaw</b>	<b>Assoc. Prof. Dr. Mohammed N. Abdulrazaq</b>	<b>Dr. Novita Sakundarini</b>	<b>Dr. Ade Nadjuri</b>	<b>Dr.-Ing. Teuku Edisah Putra</b>	<b>Assoc. Prof. Ir. Dr. Rozli Zulkifli</b>
16.15 – 16.30	<b>R063</b> Image Processing Analysis of Motorcycle Traffic Behaviour in Klang Valley, Malaysia  <i>Mohd Syazwan Salah, Azhar Hamzah, Aqbal Hafeez Ariffin, NoorFaradila Paiman, Muhammad Syukri Abdul Khalid</i>	<b>P018</b> Trend and Development of wireless Sensor Network for Aircraft Corrosion Monitoring  <i>Nurul Fadzilawati Zainuddin, Mohammed Abdalrazaq, Salah Al-Zubaidi</i>	<b>R065</b> Investigation on Phase Transformation and Physical Properties at the Interface of SIAION Duplex Stainless-Steel Bonding  <i>Mohamed Ahmed Rady, Patthi Bin Hussain and Shaik Nagoor Basha</i>	<b>N026</b> Numerical Analysis for Design Optimization of 5,000 MT Storage Tank in 600,000 MTPY PCO Plant Project  <i>Ade Nadjuri, Refi Kautsar Firmansyah</i>	<b>N023</b> The Option Design Pattern for Developing CAE Software and Its Application to Finite Element Method Programs  <i>Yaushiro Kanto</i>	<b>P033</b> Characterization of 316L Stainless Steel Foam Using Polycaprolactone as Space Holder  <i>Zulaikha Abdullah, Sufizar Ahmad, A.Ismail</i>

16.30 – 16.45	<p><b>R047</b> Influence of Surface Discontinuity on Sound Absorption Coefficient of Vehicle Interior Material</p> <p>Mohamed Ibren, Erwin Sulaeman, Amelda Dianne Andan, Adri Zainal Abidin</p>	<p><b>P038</b> Posture Evaluation: A Case Study in Car Maintenance Garage</p> <p>Abdullah, S., Khamis, N.K., A.G., Jaharah, Deros, B.M</p>	<p><b>R029</b> Analysis of Supply Chain Disruption Risks in the Malaysian Automotive Remanufacturing Industry- a Case Study</p> <p>Nur Amila Wahida Mat Ropi, Hawa Hishamuddin and Dzuraidah Abd Wahab</p>	<p><b>N043</b> A Survey on Critical Factors Affecting the Oil and Gas Pipeline Condition</p> <p>Shaik Nagoor Basha, Pedapati Srinivasa Rao, Faizul Azly B A Dzubir</p>	<p><b>N008</b> Three-Dimensional Fatigue Crack Growth Simulation of Embedded Cracks Using S-Version FEM</p> <p>Shuji Tamaru, Akiyuki Takahashi</p>	<p><b>P026</b> Evaluation of Sintered Hydroxyapatite (HA) via Powder Injection Molding</p> <p>Nashrah Hani Jamadon, Nurul Izaan Abdullah Halid, Abu Bakar Sulong and Mohd Hamdi Abdul Shukur</p>
16.45 – 17.00	<p><b>R005</b> Evaluation of Accuracy of Traffic Flow Generation in SUMO</p> <p>Xiaoyi Ma, Xiaowei Hu, Mira Schueller, Dieter Schramm</p>	<p><b>P059</b> A Review On Molecular Dynamics Simulation of Joining Carbon-Nanotubes and Nanowires</p> <p>Zaenudin M., Mohammed M. N., and Al-Zubaidi S.</p>	<p><b>R039</b> Analysis of Automotive Component Design for Reparation using Additive Manufacturing Technology</p> <p>Siti Syahara Mad Yusoh, Dzuraidah Abd Wahab, Abdul Hadi Azman</p>	<p><b>N019</b> Effect of Jet Hole Angle on Spray Characteristics of Internal Mixing Air-assisted Atomizer</p> <p>Shahrin Hisham Amirnordin, Amir Khalid, Voon Yee Yaw, Mas Fawzi</p>	<p><b>R055</b> Effect of Ambient Temperature on The Performance of Heat Recovery Steam Generator for Benghazi Combined Cycle Power Plant</p> <p>Naser Sanoussi, Salah El-Badri, Adrees Alshaheebi</p>	<p><b>P031</b> Debinding Process of Co-Powder Injection Molded (2C-PIM) SS 17-4PH and SS316L</p> <p>Najlaa Nazihah Mas'ood, Abu Bakar Sulong, Norhamidi Muhamad, Intan Fadhlina Mohamed, Farhana Mahd Faudzi</p>
17.00 – 17.15	<p><b>R054</b> A Study on The Two In-Wheel Electric Vehicle Vibration Effects Towards Human Brain</p> <p>Nurul Afiqah Zainal, Muhammad Aizzat Zakaria, K. Baarath, Anwar P.P. Abdul Mojeed and Umar Zakir Abdul Hamid</p>	<p><b>P061</b> Failure Analysis of Piping due to Chloride Stress Corrosion Cracking in MLNG</p> <p>Jeremy Yeo Sze Yawa</p>	<p><b>R016</b> Integrating Green Affective Values and Materials Selection</p> <p>Novita Sakundarini, See Junn Wayne, Christina Chin May May, Raja Ariffin Raja Ghazilla, Sharifahya Syed Azmi</p>	<p><b>N042</b> Numerical Solutions for Energy Conservation Equation of Coastal Waves Involving Mangroves</p> <p>S. Arif, and S. M. Yuni</p>	<p><b>N020</b> A Computational Design of Orthodontic V-Bend Wire System based on Force and Moment During Tooth Movement</p> <p>Kazuhiro Suga</p>	<p><b>P040</b> Moldability of Nano Size Zirconia for Powder Injection Molding Process by Using PEG and PMMA Binders</p> <p>A. Basir, N. N. Mas'ood, A. B. Sulong, N. H. Jamadon, N. Muhamad, E. Eshak</p>
17.15 – 17.30				<p><b>N011</b> Analysis of Flow Behavior in Porous Medium for Additive Manufacturing Application</p> <p>Fatihhi S. J. Szali Januddi, Sarah Izzati Samsuri, Rahimah Mahat, Ardiyansyah Syahrom</p>	<p><b>N051</b> Statistical Distribution for Nanofluid Flow over a Stretching Sheet and Thermophysical Properties</p> <p>Mohd Alias Mohd Jedi, Norashikin Zulkarnain, Azhari Shamsudeen, Norhelyna Razali</p>	

End of Day 2

Thursday 22nd August 2019 (Day 3)

8.50 – 9.30	<b>Keynote 4: Modeling Damage and Fracture Processes for Reliability Aspect in Engineering Design</b> Prof. Dr. Mohd Nasir Tamin (Universiti Teknologi Malaysia, Malaysia) <b>Grand Ballroom</b> (Chairperson: Prof. Ir. Dr. Shahrudin Abdullah)					
9.30 – 10.10	<b>Keynote 5: The Future of Automotive Friction Brakes and How to Make Them More Environmentally Friendly</b> Prof. Dr. David Barton (University of Leeds, UK) <b>Grand Ballroom</b> (Chairperson: Prof. Ir. Dr. Shahrudin Abdullah)					
10.10 – 10.40	<b>Coffee Break</b>					
10.40 – 11.20	<b>Keynote 6: Machine Learning Meets Fracture Mechanics: Prediction of Fatigue Crack Propagation</b> Prof. Dr. Yoshitaka Wada (Kindai University, Japan) <b>Grand Ballroom</b> (Chairperson: Assoc. Prof. Dr. Wan Mohd Faizal Wan Mahmood)					
11.20 – 11.25	<b>Session interchange</b>					
<b>Room</b>	<b>Grand Ballroom</b>	<b>Cempaka I</b>	<b>Cempaka II</b>	<b>Cempaka III</b>	<b>Matahari I</b>	<b>Matahari II</b>
<b>Sessions</b>	<b>ReCAR - Safety/ Traffic/ Ergonomic</b>	<b>APSIM - Management/ Energy/ Information System</b>	<b>SDMMS - Damage Mechanics</b>	<b>ReCAR - Applied Mechanics/ Control</b>	<b>NAE - Biomedical/ Medical</b>	<b>APSIM - Powder Metallurgy/ Particulate Materials/ Materials</b>
<b>Chairperson</b>	<b>Dr.-Ing. Nor Kamaliana Khamis</b>	<b>Prof. Dr. Sulaiman Hassan</b>	<b>Dr. Noorsuhada Md Nor</b>	<b>Assoc. Prof. Dr. Sallehuddin Mohamed Haris</b>	<b>Dr. Sharifah Adzila Syed Abu Bakar</b>	<b>Dr. Intan Fadhina Mohamed</b>
11.25 – 11.40	<b>R059</b> Turn Signal Use When Changing Lanes and Turning at Intersections Among Motorcyclist in Klang Valley  <i>Aqbal Hafeez Ariffin, Azhar Hamzah, Mohd Syazwan Salah, Noorfaradila Paiman, Muhammad Syukri Abdul Khalid, Noradrenalina Isah, Hisashi Imanaga, Hajime Ishida, Khairil Anwar Abu Kassim, Siti Zaharah Ishak</i>	<b>P016</b> Green Practice Issues in the Malaysian Local Company: A Survey  <i>Nur Fazlinda Mohd Pauzi, Sulaiman Hasan, S.A. Bareduan, M.F.Mokhtar, B. Omar</i>	<b>S025</b> Acoustic Emission Signal for Fatigue Damage Evaluation of Reinforced Concrete Beam.  <i>M.N. Noorsuhada, M.S. Soffian Noor, Khairul Afinawati Hashim</i>	<b>R078</b> Elimination of Physical Links in Automotive Motion Control  <i>Sallehuddin Haris, Abdullah Al Faysal</i>	<b>N009</b> Characterization of Calcium Phosphate/Magnesium Composite for Bone Implant Applications  <i>S. Adzila, N. Radhiah, and N. Kanasan</i>	<b>P045</b> The Effect of TiAlN-Based and AlCrN-Based Coatings Towards Mechanical Properties on Punch Tools  <i>Mohamad Isyraf Aznam, Wan Fathul Hakim W Zamri, Ahmad Kamal Ariffin, Muhammad Faiz Md Din, Intan Fadhina Mohamed, Guanyu Deng</i>
11.40 – 11.55	<b>R060</b> Relationship Between Driver Anthropometric Variables with Their Dynamic Pressure Distribution on Car Seat Under Paved Road Driving  <i>Mat Tahir, M.F., Khamis, N.K., Sabri, N., Noor Hasani, N.Z, Abd Wahab, D.</i>	<b>P019</b> Study of Wind-Assisted Energy for Cooling System in Bangi, Malaysia  <i>Zulkarnaini Abdullah, Muhammad Shahrulnizam Shaadan, Z.Jusoh, Z.Enggsa</i>	<b>S031</b> Improvement of Steel Hardness with Nanofluid Quenching Using 2K Factorial Design  <i>M.F. Abdullah, S.J. Hao, M.K Faidzi, A. Ali</i>	<b>R046</b> Model Identification and Analysis on Crash Friendly Sedan  <i>Nur Azia Izaty Mohamad Razman , Kausalyah Venkatasen, Shasthri Sivaguru.</i>	<b>N040</b> The Development of a Portable Optical for Telemonitoring of Skin Blood Oxygen Status  <i>Hong Xuan Wai, Audrey Huong, Ngu Xavier</i>	<b>P037</b> Characterization of Titanium Alloy-Hydroxyapatite Composite through Powder Injection Molding  <i>M.I. Ramli, A.B. Sulong , F.A.A. Yazid , F.M. Foudzi, N. Muhamad</i>
11.55 – 12.10	<b>R062</b> The Effects of Motorcycle's and Motorcyclist's Appearances Towards Motorcycle Visibility in Malaysia Road Traffic  <i>Muhamad Syukri Abdul Khalid, Azhar Hamzah, Mohd Syazwan Salah, Aqbal Hafeez Ariffin, Noor Faradila Paiman</i>	<b>P020</b> Simulation Study of Cooling a Small Domestic Refrigeration System Using Solar-Assisted Energy in Bangi, Malaysia  <i>Z. Jusoh, N. Ibrahim, Z. Abdullah and Z. M. Enggsa</i>	<b>S016</b> Magnetic Flux Leakage Signature Evaluation in Predicting the Fatigue Life of Ferromagnetic Materials  <i>Siti Norbaya Sahadan, Azli Ariffin and Shahrudin Abdullah</i>	<b>R067</b> The Use of Genetic Algorithm Optimization Using PI-DTC Method to Reduce the Starting Current of Synchronous Motor.  <i>Birowo, Edi Ph , Edi S, Ari Wibawa, Ardiansyah</i>	<b>N041</b> Prediction of Buckling Mode For Simply Supported Stiffened Thin Plates Subject to Inplane Loading  <i>Abdul Karim Abd Halim, Jaffar Syed Mohamed Ali, Erwin Sulaeman</i>	<b>P043</b> Molecular Dynamics Studies on the Effect of Pressure on the Structural Evolution and Mechanical Properties of Diffusion Bonding Between Al and Ni.  <i>M. Zaenudin , M. N. Mohammed, S. Al-Zubaidi</i>

12.10 – 12.25	<p><b>R064</b> Road User's Perceptions Towards Motorcycle Safety with Regards to Conspicuity in Malaysia Road Traffic</p> <p>Muhamad Syukri Abdul Khalid, Nor Kamaliana Khamis, Mohd Radzi Abu Mansor, Mohd Hafzi Md Isa</p>	<p><b>P041</b> Assessing Correlation between Disruption Management Practices and Environmental Impact in the Supply Chain: A Case Study Approach</p> <p>Noraida Azura Md Darom, Hawa Hishamuddin, Rizauddin Ramli, Zulkifli Mohd Nopiah</p>	<p><b>S023</b> Effect of Drill-Bit Geometry on Thermal Responses in Bone Drilling: A Review</p> <p>Nur Fatin Izzati Ibrahim, Ruslizam Daud, Nur Saifullah Kamaruddin, Muhammad Khairul Ali Hassan and Fauziah Mat</p>	<p><b>R077</b> Measurement of Brake Wear Particle Emissions with a Novel Test Rig</p> <p>AB Sanuddin, S Kosarieh, CA Gilkeson, PC Brooks, DC Barton</p>	<p><b>N038</b> Finite Element Analysis of Gradient Lattice Structure for Bone Implant Application</p> <p>Asliah Seharang, Abdul Hadi Azman, Shahrum Abdullah</p>	<p><b>P044</b> Atomistic Investigation on the Effect of Temperature on Diffusion-Bonding Between Nickel And Aluminum Using Molecular Dynamic Simulation</p> <p>M. Zaenudin , M. N. Mohammed, S. Al-Zubaidi</p>
12.25 – 12.40	<p><b>R072</b> Distracted Driving While Doing Mobile Phone Conversation: A Driving Simulator Study</p> <p>Mohd Firdaus Mohd Siam</p>	<p><b>P064</b> Time Study to Establish Standard Time in a Television Manual Assembly Production</p> <p>Nizaroyani Saibani, Norliza Mohd Ali and Hawa Hishamuddin</p>	<p><b>S028</b> Integrity Operating Windows (IOW) for Centrifugally Cast 35Ni-25Cr-Nb Reformer Tube Operating in Creep Region Based on Larson-Miller Parameters (LMP)</p> <p>Muhammad Zaid Bin Kamardin, Azniza Binti Azmy, Ahmad Exsan Bin Othman and Siti Syazwani Binti Samiri</p>	<p><b>R007</b> Simulation Based Assessment of a Road Surface Condition Aware ACC</p> <p>Thomas Weber, Dieter Schramm</p>	<p><b>N035</b> Stress Intensity Factor Estimation Using Singularity Elements By Displacement Extrapolation Method</p> <p>Noor Alia Md Zain, Ruslizam Daud, Nur Saifullah Kamaruddin, Khairul Rafezi Ahmad, Nurul Najwa Mansor, and Norzarul Asri Kamis</p>	<p><b>P035</b> Perpendicular Hole During Drilling of Magnesium Alloy AZ31</p> <p>Gusri Akhyar Ibrahim, Yanuar Burhanuddin, Suryadiwansa Harun, Didiek Embrijakta, Moh. Zaid Abu Yazid</p>
12.40 – 12.55	<p><b>R058</b> Motorcycle Positioning in Queues at Signalised Intersections in City of Klang Valley</p> <p>Noor Faradila Paiman, Mohd Syazwan Salah, Azhar Hamzah, Aqbal Hafeez Ariffin, Hisashi Imanaga</p>		<p><b>S035</b> Application of Metal Magnetic Memory Inspection Approach in Assessing Vibration Induce Fatigue Damage Mechanism</p> <p>M.N. Baharin, M. F. M. Yunoh, R. Rashid, M. H. Hassan and N. Roslin</p>	<p><b>R032</b> Vehicle Drifting: Mathematical Theory and Dynamic Analysis</p> <p>Sina Alamdari Milani, Harnoz Marzbani, Reza Nakhaie Jazar.</p>	<p><b>N039</b> Photoacoustic Systems for Biomedical Imaging Applications: A Comparison Study</p> <p>Hui Ling Chua, Audrey Huang</p>	<p><b>R019</b> Atomistic Investigation on Diffusion Bonding between Al and Ni using Molecular Dynamics Simulation</p> <p>Mohammed N Abdulrazaq, M. Zaenudin, Mohad Zaenudin</p>
12.55 – 14.15	Lunch					
<b>Room</b>	<b>Grand Ballroom</b>	<b>Cempaka I</b>	<b>Cempaka II</b>	<b>Cempaka III</b>	<b>Matahari I</b>	<b>Matahari II</b>
<b>Sessions</b>	ReCAR - Thermofluids/ Combustion	APSIM - Manufacturing	SDMMS - Fracture Mechanics	ReCAR - Applied Mechanics/ Control	NAE- Biomedical/ medical / Engineering Application SDMMS - SIF/ FE Model/ Crack	APSIM - Mechanical Properties
<b>Chairperson</b>	Assoc. Prof. Dr. Wan Mohd Faizal Wan Mahmood	Assoc. Prof. Dr Mohd Zaid Abu Yazid	Prof. Dr. Mohd Nasir Tamin	Dr. Uchenna A Ude	Dr. Shasthri Sivaguru	Dr. Pathi Hussain
14.15 -14.30	<p><b>R025</b> Performance of Natural Gas Injection Timing on Multi-Cylinder Stratified Charged Turbocharged CNG DI Engine</p> <p>Hilmi Amiruddin, Wan Mohd Faizal Wan Mahmood</p>	<p><b>P017</b> Interfacial Bonding Behaviour between Cu and Al Using Molecular Dynamics Simulation</p> <p>M. Zaenudin, Abd Hafeez Abd Gaffar, M.N. Mohammed, S.Al-Zubaidi</p>	<p><b>S033</b> Characterization of Interface Damage Model for Fiber-reinforced Polymer Composite Laminates under Mode I Loading</p> <p>S.A. Khan and M. N. Tamin</p>	<p><b>R030</b> Crashworthiness Behavior of Bombyx mori Fibre/Glass-Fibre/Epoxy Hybrid Composite Cylindrical Tubes Deformed Laterally – Experimental</p> <p>Uchenna A Ude, Che Husna Azhari.</p>	<p><b>N025</b> Development of Localised Region for Better Computational Performance in Soft Tissue Simulation</p> <p>Mohd Nadzeri Omar, Yongmin Zhong</p>	<p><b>P066 (Invited Paper)</b> Toward Room-Temperature Superplasticity in Al Alloy</p> <p>Kaveh Edalati, Zenji Horita and Ruslan Z. Valiev</p>

14.30 - 14.45	<p><b>R027</b> Influence of Shell Size on Evaporative Heat Exchanger Scale and Performance Used as Vehicle Charge Air Cooler Intercooler</p> <p><i>Pshitan M. Sharif , A. Aziz Hairuddin, Azizan As'ary, Khairil Anas Md. Rezali, M.M. Noor, Saman M. Shareef</i></p>	<p><b>P025</b> Influence of Rounded Cutting-Edge Radius and Machining Parameters on Surface Roughness and Tool Wear in Milling AISI H13 steel under dry and cryogenics machining</p> <p><i>Husni Nazra Abu Bakar, Jaharah A. Ghani, Che Hasan Che Haron</i></p>	<p><b>S024</b> Review on Crack Penetration in Cortical Bone Microstructures</p> <p><i>Raja Nor Syazwani Izzati Raja Ali, Ruslizam Daud, Muhamad Khairul Ali Hassan, Noor Alia Md Zain, Nurul Najwa Mansor,</i></p>	<p><b>R034</b> Bump Energy for Durability Prediction of Coil Spring Based on Local Regularity Analysis</p> <p><i>Chuin Hao Chin, Shahrum Abdullah, Salvinder Singh Karam Singh, Ahmad Kamal Ariffin Mohd Ihsan, Dieter Schramm</i></p>	<p><b>N037</b> 2D Analysis of Vortex Induce Vibration Near Enhancement via Dual Bluff Body in Tandem Arrangement for Electrical Energy Generation</p> <p><i>Mohd Nor Fakhzan Mohd Kazim, Mohd Zaki Nuawi, Rasidi Rasani, Zambri Harun</i></p>	<p><b>P047</b> Evolution of Microstructure and Mechanical Properties of AA6061 via High Pressure Torsion</p> <p><i>Cheeranan Kratuswan, Intan Fadhlina Mohamed, Wan Fatul Hakim Wan Zamri, Fauziana Lamin</i></p>
14.45 - 15.00	<p><b>R056</b> Syngas Derived from Empty Fruit Bunches Pyrolysis for Fuel Application: Energy Balance and Characterization</p> <p><i>Taufiq Bin Nur, Bagus G Yudanto, Rulianda Wibowo</i></p>	<p><b>P042</b> Influence of Machining Parameters in Near Dry Milling of Aluminum Alloy 7075-T6</p> <p><i>MZA Yazid, Azreen Zainol, A.M. Mustapaha</i></p>	<p><b>S029</b> Ambient Temperature Hydrogen Embrittlement Attack at Air Compressor System</p> <p><i>Hambali B Chik, Rohana Bt Jaafar, M Nizam B A Wahab and Saiful Azrin B Osman</i></p>	<p><b>R011</b> Effect of Ride Quality on Reaction Forces of the Lower Arm Ball Joint</p> <p><i>Naveed Ahmed Khatri, Fadly Jashi Darsivan Ridhuan Siradj, Waleed F. Faris.</i></p>	<p><b>N028</b> Performance Analysis of Drum Brake from Composite Materials for Motorcycle with Composition 70: 30%</p> <p><i>Ilkhwansyah Isranuri, Supriadi, Safri Gunawan, Riadini Wanty Lubis</i></p>	<p><b>P067</b> Physical and Mechanical Properties of Ti-HA Composites Prepared by PIM</p> <p><i>Nurul Nadiah Mahmud, Abu Bakar Sulong, Mohd Ikram Ramli, Kei Ameyama</i></p>
15.00 – 15.15	<p><b>N021</b> Production and Characterisation of Biolubricant from Fluted Pumpkin (Cucurbita Pepo L.) Seed Oil for Effective Lubrication in Internal Combustion Engines</p> <p><i>Abubakar U. Babuje, Udechukwu B. Ikechukwu, Ezeifedikwa S. Ekene</i></p>	<p><b>P048</b> Flank Wear on Rotary Tool when Turning Magnesium AZ31 at Air Cooling Condition</p> <p><i>MZA. Yazid, MM. Razak, Gusri Akhyar Ibrahim, Arinal Hamni, Suryadiwansa Harun, Yanuar Burhanuddin</i></p>	<p><b>S034</b> Effect of Different Lay Angles on Fatigue Fracture Characteristics of Steel Wire Ropes</p> <p><i>Maslinda Kamarudin, Zaini Ahmad, Mohd Nasir Tamin</i></p>	<p><b>R035</b> Assessing the Reliability of Random Strain Loads from the Reliability-Hazard-Life Distribution</p> <p><i>Lennie Abdullah, Salvinder Singh Karam Singh, Abdul Hadi Azman.</i></p>	<p><b>N022</b> Numerical Simulation of a Flapping Wing Based on Bat Wings.</p> <p><i>Shafiq Bin Suhaimi, Solehuddin Shuib, Hamid Yusoff, A. Halim Kadarman</i></p>	<p><b>P058</b> Puncture Impact Performance of Woven Recycled PET (r-PET) Composite on Different Woven Reinforcement Structure</p> <p><i>Khairani Nasir, Azrin Hani Abdul Rashid, Fayahira Othman, Muhammad Farid Shaari, Mohd Nazrul Roslan, Shazarel Shamsudin, Mohd Shukri Anwar, Nurul Atikah Abd Razak, Nurul Zakiah Zamri Tan, Noraini Marsi</i></p>
15.15 – 15.30	<p><b>R061</b> Surface Texturing In Internal Combustion Engine Piston Assembly</p> <p><i>Muhamad Asyraf Mohd Azmi, Wan Mohd Faizal Wan Mahmood, Jaharah A. Ghani, Mohammad Rasidi Rasani</i></p>	<p><b>P049</b> Investigation on Cutting Force in End Milling of AISI 4340 Under Dry and Cryogenic Conditions</p> <p><i>Muhamad S.S., Ghani J.A, Haron C.H.C. and Yazid H.</i></p>	<p><b>S021</b> J-Dominance of Semi-Elliptical Surface Cracks in Tension and Bending</p> <p><i>Norwahida Yusoff and Feizal B Yusuf</i></p>	<p><b>R066</b> A Unified Fatigue Model based on a One-Dimensional Implicit-based Plasticity Model</p> <p><i>Farzin Mozafari, Prakash Thamburaja, Arun Srinivasa</i></p>	<p><b>N046</b> Numerical Analysis on the Effects of Plates in the Performance of 3D Storage Tanks for Cooling using Comsol Multiphysics</p> <p><i>M.T. Hamisu, N.S Galadanci, A. Sa'ad</i></p>	<p><b>P063</b> Compressive Behavior of Stainless Steel Foams Produced using the Powder Space Holder-Metal Injection Moulding (PSH-MIM) Method</p> <p><i>Tan Koon Tatt, Norhamidi Muhamad, Andanastuti Muchtar, Abu Bakar Sulong</i></p>
15.30 – 15.45	<p><b>R069</b> The Effect of Thermophoresis on the Soot Particles Size Distribution in Compression Ignition Diesel Engine</p> <p><i>Fadzli Ibrahim, Wan Mohd Faizal Wan Mahmood, Shahrir Abdullah,</i></p>	<p><b>P012</b> Effect of Contour Interval on Minimization of Tool Path Length in Pocket Milling Process</p> <p><i>Haslina Abdullah, Ramli R., Wahab, D.A., Talib, N., Lee W.K., Saleh, A. Zakaria, M.S</i></p>	<p><b>N024</b> Probabilistic Fatigue Surface Crack Growth Prediction using S-Version Finite Element Model</p> <p><i>Muhamad Husnain bin Mohd Nah, Mohd Akramin Mohd Romlay, Zun Liang Chuan, Mohd Shamil Shaari, Akiyuki Takahashi</i></p>	<p><b>R012</b> Handling Performance Criteria Evaluation for Vehicle Suspension System with Semi-Active Control Strategies</p> <p><i>Soong, M. F., Sim, H. Y, Ramli, R, Saifizul, A. A.</i></p>	<p><b>N036</b> Exergy Analysis of a Gas Turbine Power Plant using Jatropha Biodiesel, Conventional Diesel and Natural Gas</p> <p><i>Aisha Sa'ad, Ejeheri Y. Oghenemarho, Wunuku Carlos Solomon, Tukur Hamisu M.</i></p>	<p><b>P003</b> Mechanical Properties of Bamboo-Fibre-Reinforced Semirigid Poly(vinyl chloride) Composites</p> <p><i>Siti Atiqa Al Zahra Mat Darus, Siti Atiqa Al Zahra Mat Darus</i></p>
15.45 – 16.00	<p><b>R068</b> Characteristics of Densified Bio-Char Produced through a Slow Pyrolysis of Arabica Coffee-Skin</p> <p><i>Adi Setiawan, Faisal Faisal</i></p>		<p><b>S032</b> Experimental Investigation of the Axial Crushing Response of Flax/Glass Eco-Hybrid Composites for Fuselage Subfloor Application</p> <p><i>Haris Ahmad Israr, Logodhasan Swedan and King Jye Wong</i></p>	<p><b>R044</b> Orthogonal Hilbert-Huang Transform on the Strain Data Signal of a Suspension System</p> <p><i>Nadia Nurhajjah Mohamad Nasir , Shahrum Abdullah, Salvinder Singh Karam Singh, Sallehuddin Haris</i></p>	<p><b>N034</b> Models for Prediction of Oil Pipeline Condition using Regression Analysis</p> <p><i>M. Fadli, S. R. Pedapati, H. Hamdan</i></p>	
15.45 – 16.15	Session interchange and Coffee Break					

Room	Grand Ballroom	Cempaka I	Cempaka II	Cempaka III	Matahari I	Matahari II
Sessions	ReCAR - Thermofluids/ Combustion	APSIM- Manufacturing	ReCAR -Thermofluids/ Combustion	ReCAR- Applied Mechanics/ Control	NAE- Biomedical/ Medical / Engineering Application SDMMMS (SIF/ FE Model/ Crack)	APSIM- Mechanical Properties/ Information System
Chairperson	Ir. Dr. Zambri Harun	Dr. Nashrah Hani Jamadon	Dr. Muhamad Alias Md. Jedi	Dr. Salvinder Singh Karam Singh	Dr. Noorhellyna Razali	Dr. Wan Fathul Hakim Wan Zamri
16.15-16.30	<b>R079</b> Comparative study of performance, emissions and combustion characteristics of diesel-gasoline and diesel-bioethanol operating in a dual-fuel engine  A.H. Hishammudin, Y.H. Teoh, Z.A. Zainal, H.G. Haw	<b>P006</b> Development of floor mapping mobile robot algorithm using enhanced artificial neuro-based SLAM (ANBS)  Khairul Anuar Juhari, Rizauddin Ramli, Sallehuddin Mohamed Haris, Abdullah Zawawi	<b>R020</b> Potential and Challenges of Utilizing Natural Gas as Transportation Fuel in Saudi Arabia  Taib I. Mohamad	<b>R014</b> Stability Analysis and Control of Quarter Car Active Suspension System Using LMI Region  Adamu Y. Babawuro, N. M. Tahir and Sambo A. Umar	<b>N033</b> Effect of Ballistic Impact on Ti6Al-4V Titanium Alloy and 1070 Carbon Steel Bi-Layer Armour Panel  Shashtri Sivaguru, Kausalyah Venkatason	<b>P034</b> Effect of Heat Treatment on Microstructural and Mechanical Behaviours of S15c Dual-Phase Steel  Zainuddin Sajuri, Nora Osman, Mohd Zaidi Omar, Intand Fadhlina Mohamad, J.Syarif
16.30-16.45	<b>R080</b> Critical Review of Multiple Impingement Jet Mechanism for Flow Characteristics and Heat Transfer Augmentation and Future Directions of Nanocoating  Mahir Faris Abdullah, Kamal Mohammed Ali, Rozli Zulkifli, Zambri Harun, Shahrir Abdullah, Wan Aizon W.Ghopa	<b>P015</b> The Influence of Modified Jatropa-based Oil Nanofluids as a Metalworking Fluid During Orthogonal Cutting Process  Talib N., Hamzah N., Amiril S.A.S., Rahim E.A.,	<b>R008</b> Fuel Consumption and Performance of a Small Turbocharged Engine with Cylinder Deactivation (CDA)  Rifqi Irzuan Abdul Jalal, Mohd Anuar Mohd	<b>R022</b> Optimization Of A Lightweight Aluminium Cylinder Block Design Using Finite Element Stress Analysis  Mohamad Asyraf bin Arsah, Syed Mohd	<b>N029</b> Partial Least Square Structural Equation Modeling in the Final Phase of Product Development in Universal Design and Agile Development  Rosseni B Din	<b>P065</b> Reutilization of Nano Zirconia Remnants for Dental Crown Applications  Mohamed Aboras, Andanastuti Muchtar, Che Husna
16.45-17.00	<b>R038</b> Fuel Injection Optimization of Free Piston Linear Generator  Evelyn, M. Muzani Masri, A. Rashid A. Aziz, Firmansyah, Ezrann Z. Zainal A.	<b>P062</b> Sea Cooling Water Heat Exchangers Tube Leak Failure Analysis  Jeffery Ngaran	<b>R017</b> Simulation of Bioethanol Production Processes From Oil Palm Empty Fruit Bunches  Hendra Susilo, Taufiq Bin Nur, Indra Surya	<b>R074</b> Characterisation of Mechanical Behaviour of Polymer Using I-kaz 4D Analysis Method via Ball Impact Testing.  Mohd Faizal Mat Tahir, Muhammad Fazrin Abdullah, Sallehuddin Mohamed Haris, Mohd Zaki Nuawi, Shahrir Abdullah	<b>N050</b> Mathematical Model on Boundary Layer Flow and Heat Transfer of Cylinder in Nanofluid With Porous Medium  Afiq Safwan Hamdan, Mohd Alias Mohd Jedi, Norashikin Zulkarnain, Azhari Shamsudeen, Narhellyna Razali	<b>P057</b> The Evaluation of Kenaf/Polyester Blended Yarn Produced from Ring Spinning System  Najwa Wajihah Mohd Rusli, Azrin Hani Abdul Rashid, Mohd Rozi Ahmad, Mohd Nazrul Roslan, Aslinda Saleh
17.00-17.15	<b>R052</b> Experimental and Evaluation on Wheel Liquid Desiccant Cooling System: Preliminary Studies  Mohd Anas Mohd Sabri, Siddiq Omer, Saffa Riffat, Wan Aizon Wan Ghopa		<b>R040</b> Effect of Compression Ratio and Injection Timing on Performance, Combustion, and Emission Characteristics in a Direct Injection Diesel  A. Rohani, J. Zareei and S. Ahmadipour	<b>R036</b> Integrated System For Assessing Fatigue Reliability Under Random Strain Loading  Syifa Syuhaidah Meor Zainal, Salvinder Singh Karam Singh, Lennie Abdullah, Shahrir Abdullah	<b>N027</b> Implementation of Numerical Framework for Modified-Robinson-Rousselier (MRR) Model  M.I.M. Ahmad, S. Arun, M. Akbar and F.C. Meijas	<b>P013</b> Geospatial Information System Based on Indoor Plan UKM  Zikrul Hakiem Ishak, Salehuddin Mohamed Haris
17.15-17.30	<b>R031</b> Numerical Analysis of Flexi Fuel Free Piston Linear Generator  Muhammad Noraiman Mhd Jaffry, Zainal Ambri Abdul Karim, A. Rashid A.Aziz		<b>N053</b> Numerical Analysis of Heat Transfer Enhancement of Nanofluid in a Circular Tube with Twisted Tape Inserts  A. Saadah, S. Abdullah and K. Sopian	<b>S036</b> Details Signal Characterisation of Doublechies for Automobile Suspension System  A.A.A. Rahim, S. Abdullah, S.S.K. Singh and M.Z.Nuawi	<b>N013</b> Effect Of Impactor for Structure with Foam under Axial Loads  Fauzan Djamaluddin, Shahrir Abdullah, Ahmad K. Ariffin, Salvinder Singh Karam Singh	
End of Conference						