

PROGRAM SCHEDULE ICAME 2017

Wednesday, 16 August 2017					
Ball Room (Cholatee)					
08:00 – 09:00	Registration				
08:30 – 09:00	Opening Ceremony				
09:00 – 09:40	Keynote 1 Prof. Dr. Salmiah Kasolang Dean Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia <i>“Progress of Tribology Research in Malaysia”</i>				
09:40 – 10:00	Coffee break				
10:00 – 10:20	Keynote 2 Prof. Dr.-Ing. Roman Dumitrescu Advances Systems Engineering at the Faculty of Electrical Engineering, Computer Science and Mathematics, University of Paderborn, Germany <i>“Advanced systems Engineering for Intelligent Technical Systems”</i>				
10:20 – 11:00	Keynote 3 Dato’ Madani Sahari CEO of the Malaysia Automotive Institute (MAI) <i>“Driving Innovation in the age of experience”</i>				
11:00 – 11:40	Keynote 4 Dr.- Ing. Marcel Graf Virtual Production Engineering Office in Chemnitz, Germany <i>“Virtual manufacturing as tool for material and process developments and optimizations.”</i>				
12:00 – 13:00	Lunch				
Cholatee A Room Cholatee B Room Sai Natee Room Ton Sai Room Terrace					
13:00 – 15:00	Parallel Session Automotive Engineering (A1)	Parallel Session Advanced Manufacturing Technology and Simulation (A2)	Parallel Session Mechatronics, Control And Intelligent System (A3)	Institute of Energy Malaysia/ Thermofluid and Energy (A4)	Parallel Session Thermofluid and Energy (P1)
15:00 – 15:15	Coffee break				
15:15 – 17:15	Parallel Session Automotive Engineering (B1)	Parallel Session Advanced Manufacturing Technology and Simulation (B2)	Parallel Session Computer Aided Design, Engineering and Technology & Advance Material (B3)	Parallel Session Thermofluid and Energy (B4)	Parallel Session Advance Material Research (P2)
17:30	Adjourned				

Thursday, 17 August 2017

Ball Room (Cholatee)						Ton Sai Room
08:00 – 09:00	Registration					MAI Meeting
08:30 – 09:10	Keynote 5 Assoc. Prof. Mitsugu Todo Research Institute for Applied Mechanics, Kyushu University, Japan					MAI Meeting
09:20 – 10:00	Keynote 6 Prof. Lu Guoxing Department of Mechanical Engineering, Swinburne University of Technology, Australia <i>“Current research on impact engineering.”</i>					MAI Meeting
10:00 – 10:15	Coffee Break					
10:15 – 10:55	Keynote 7 Assoc. Prof. PhDr. Soňa Jandová Vice-Rector for External Relations Technical University of Liberec, Czech Republic					MAI Meeting
11:00 – 11:40	MoU Signing Technical University of Liberec					MAI Meeting
12:00 – 13:00	Lunch					
	Cholatee A Room	Cholatee B Room	Sai Natee Room	Ton Sai Room	Terrace	
13:00 – 15:00	Parallel Session Automotive Engineering & Thermofluid and Energy (C1)	MAI Meeting	Parallel Session (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering) (C2)	Parallel Session Thermofluid and Energy (C3)	Parallel Session Advance Material Research (P3)	
15:00 – 15:15	Coffee Break					
15:15 – 17:15	Parallel Session Aerospace Science and Technology & Advance Material Research (D1)	MAI Meeting	Parallel Session (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering) (D2)	Parallel Session Thermofluid and Energy & Advance Material Research (D3)	Parallel Session Computer Aided Design, Engineering and Technology (P4)	
17:30	Adjourned					

Friday, 18 August 2017

	Cholatee A Room	Cholatee B Room	Sai Natee Room	Ton Sai Room	Terrace
08:00 – 09:00	Registration				
08:00– 10:00	Parallel Session Advanced Materials Research (E1)	Parallel Session Advanced Materials Research (E2)	Parallel Session (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering / CAD CAE) (E3)	Parallel Session Aerospace Science and Technology (E4)	Parallel Session Computer Aided Design, Engineering and Technology (P5)
10:00 – 10:10	Coffee break				
10:10 – 12:10	Parallel Session Advanced Materials Research (F1)	Parallel Session Advanced Materials Research (F2)	Parallel Session (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering / Advanced Material) (F3)	Parallel Session Computer Aided design, Engineering and Technology (F4)	Parallel Session Advance Material Research (P6)
12:10 – 14:00	Lunch				
14:00 – 16:00	Parallel Session Advanced Materials Research (G1)	Parallel Session Advanced Manufacturing Technology and Simulation (G2)	Parallel Session (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering / Mechatronics, Control And Intelligent System) (G3)	Parallel Session Adhesion, Friction, Wear and Lubrication in Surface Interaction (G4)	Parallel Session Thermofluid and Energy (P7)
16:00	Program End				

NOTE: ANY CHANGE REQUEST TO THE PRESENTATION SLOT WILL NOT BE ENTERTAINED SINCE WE ARE DEALING WITH HUGE NUMBER OF PARTICIPANTS AND LIMITED ROOMS AVAILABLE.

Parallel Session

Date: 16 August 2017 Room: Cholatee A Session Name: A1 Track: Automotive Engineering Session Chair: Ir. Dr. Amir Razi/ Dr. Wan Emre			
Time	Paper ID	Author	Paper Title
13:00-15:00	22	Mohamad Hafiz Harun, Ahmad Kamal Mat Yamin, Mohamad Zaharudin Sariman, Muhamad Azwar Azhari and Mohd Razali Md Yunos. <i>Universiti Teknikal Malaysia Melaka</i>	Characterization of a Magnetorheological Fluid Damper Applied to Semi-Active Engine Mounting System
	48	Mohamed Saiful Firdaus Hussin and Halyani Yassin. <i>Universiti Teknikal Malaysia Melaka</i>	Acceptance of Electric Vehicle based on Pricing and Charging Station
	53	Hazim Sharudin, Prof Madya Dr. Nik Rosli Abdullah, Professor Ir. Dr. Masjuki Haji Hassan, Ashraf Yusoff and Dr. Obed Majid Ali. <i>UITM Shah Alam and Universiti Malaya</i>	Investigation of the Emission Characteristics of Iso-Butanol Additives on Methanol-Gasoline Blends using Spark Ignition Engine
	85	Mashitah Mahmud, Salvinder Singh Karam Singh, Shahrum Abdullah, Ahmad Kamal Ariffin Mohd. Ihsan and Zulkifli Mohd. Nopiah. <i>Universiti Kebangsaan Malaysia</i>	Determining Damaging Fatigue Cycles under Influence of Random Loadings using the Root-Mean-Square Level
	86	Mohd Faridz Mod Yunoh, Shahrum Abdullah, Mohamad Hanif Md Saad, Zulkifli Mohd Nopiah, Mohd Zaki Nuawi and Azli Arifin. <i>Universiti Kebangsaan Malaysia</i>	Classification of Fatigue Damaging Segments Using Artificial Neural Network
	105	Mohd Nizam Ahmad, Thineshwaran S and Abdus Samad Mahmud. <i>Universiti Kuala Lumpur, Malaysian Spanish Institute and Universiti Sains Malaysia</i>	Application of Structural Optimization on Alloy Wheel Rim by using Design of Experiment
	125	Wan Nuraini, Zainuddin Sajuri, Mohamad Azlan Aripin, Shahrum Abdullah, Mohd Zaidi Omar, Mohamad Faizal Abdullah and Wan Fathul Hakim Zamri. <i>Universiti Kebangsaan Malaysia</i>	Effect Of Steel Fibres And Wire Mesh Reinforcement On Flexural Strength And Strain Energy Steel-Epoxy-Aluminium Composite Laminates
	155	Mohamad Fikri Mohd Sharif, Abdullah Aziz Saad, Fakhrozi Che Ani, Mohd Yusuf Tura Ali and Zambri Samsudin. <i>University Science Malaysia & Jabil Circuit Sdn Bhd</i>	Effect of Stretchable Circuit Deformation on Its Electrical Performance for Automotive Lighting Application

Date: 16 August 2017
Room: Cholatee B
Session Name: A2
Track: Advanced Manufacturing Technology and Simulation
Session Chair: PM Dr-Ing. Yupiter

Time	Paper ID	Author	Paper Title
13:00- 15:00	145	Marcel Graf, Sebastian Härtel, Carolin Binotsch and Birgit Awiszus. <i>TU Chemnitz</i>	Virtual Manufacturing as Tool for Material and Process Developments and Optimizations
	42	Khairu Kamarudin, Md Saidin Wahab, Mohd Faizal Mohideen Batcha, Shayfull Zamree Abd Rahim, Azli Amin Ahmad Raus, Aqeel Ahmed Bhutto, Mustaffa Ibrahim, Nasuha Sa'Ude and Mohd Nasir Mat Saad <i>Universiti Tun Hussein Onn Malaysia & Universiti Malaysia Perlis</i>	The Effect Of Square Finned Conformal Cooling (SFCC) On Cycle Time for Plastic Injection Moulding
	47	Argustina Zainuddin, Nur Asiah Kuzaiman, Noor Azlina Mohd Salleh and Salmiah Kasolang. <i>Universiti Teknologi MARA</i>	Quality Green Energy Leadership Management Practices in Malaysian Automotive Companies
	68	Azriq Zainul Abidin, Wan Emri Wan Abdul Rahaman, Yupiter Hp Manurung and Mohammad Ridzwan Abdul Rahim. <i>Universiti Teknologi MARA & DOSH Sarawak</i>	Fatigue Life Assessment of 9mm Thickness Low Carbon Steel with Multi-Objective Optimized Welding Process
	70	Mohd Shahar Sulaiman, Yupiter Hp Manurung and Marcel Graf. <i>Universiti Teknologi MARA Malaysia & Chemnitz University of Technology</i>	Analysis of Weld Induced Distortion of Butt Joint using Simulation and Experimental Study
	99	Muhamad Magffierah Razali, Mohd Fadzil Faisae Ab Rashid and Muhammad Razif Abdullah Make. <i>Universiti Malaysia Pahang</i>	Optimization of Automotive Manufacturing Layout for Productivity Improvement
	144	Mohd Badli Ramli, Md Saidin Wahab and Badrul Aisham Md Zain. <i>Universiti Tun Hussein Onn Malaysia</i>	Effect Of Incubation Temperature On Ikta's Quail Breed With New Rolling Mechanism System
	286	Yupiter Harangan Prasada Manurung and Omar Yahya <i>Universiti Teknologi MARA</i>	Virtual Manufacturing for Prediction of Martensite Formation and Hardness Value induced by Laser Welding Process using Subroutine Algorithm in MSC Marc/Mentat

Date: 16 August 2017
Room: Sai Natee
Session Name: A3
Track: Mechatronics, Control And Intelligent System
Session Chair: PM Dr. Cheng Yee Low

Time	Paper ID	Author	Paper Title
13:00-15:00	41	Ahmad Faiz Zubair and Mohd Salman Abu Mansor. <i>Universiti Sains Malaysia</i>	Automatic Feature Recognition of Chamfer and Fillet for Turning Part Model by Volume Decomposition Method
	103	Muhammad Azmi Ayub, Aminuddin Hamid Hamid and Mohd Nor Azmi Ab Patar Ab Patar. <i>Universiti Teknologi Mara, Shah Alam, Selangor</i>	Real-Time Measurement Ground Reaction Force For Motion Control Of Active Ankle Foot Orthosis
	109	Mohammad Nizar Zukri, Elmi Abu Bakar and Zulfaa Mohamed-Kassim. <i>Universiti Sains Malaysia</i>	An electroanalytical instrument equipped with wireless communication network and graphical user interface for real-time monitoring wastewater status from Batik Industry
	114	Mazleenda Mazni, Muhammad Azmi Ayub Ayub and Norhafiza Muhammad Muhammad. <i>Universiti Teknologi Mara, Shah Alam, Selangor</i>	Calibration of Industrial Fanuc 430iF Series Robot Arm
	188	Muhamad Fauzi Othman, Rudi Kurniawan and Dieter Schramm. <i>Universiti Teknologi MARA, Universitas Syiah Kuala & Universität Duisburg-Essen</i>	A Cable-Driven Parallel Robots Application: Modelling and Simulation of a Dynamic Cable Model in Dymola
	213	Mohamad Dzulhelmy Amari and Sukarnur Che Abdullah. <i>UiTM</i>	A Model for Hypersensitive Airflow Sensor Concept
	212	Cheng Yee Low <i>Universiti Tun Hussein Onn Malaysia</i>	Reference Model for Smart Factory of Industry 4.0 for Small and Medium Industries in ASEAN
	219	Martin Rabe, Arno Kühn, Roman Dumitrescu, Tobias Mittag, Marcel Schneider and Jürgen Gausemeier. <i>Fraunhofer IEM & Heinz Nixdorf Institute</i>	Impact of Smart Services to current Value Networks

Date: 16 August 2017

Room: Ton Sai

Session Name: A4

Track: Institute of Energy Malaysia/ Thermofluid and Energy

Session Chair: Dr. Baljit Singh/ Dr. Alhassan

Time	Paper ID	Author	Paper Title
13:00-15:00		Briefing Session by The Institute of Energy Malaysia	
	290	Zulkafli Hassan, Shahrudin H., Wan Asma I. and Siti Nur Ridhwah M.R. <i>Universiti Malaysia Pahang & FRIM</i>	Production And Applications Of Biodiesel Derived From High Acid Value Feedstocks
	253	Zainoor Hailmee Solihin, Wirachman Wisnoe and Ramlan Zailani. <i>Universiti Teknologi MARA</i>	The Design Simulation of the Green Tower Performance
	289	Ramlan Zailani, Khairul Ashraf Kamarudin, Raja Razuan Raja Deris and Khudzir Ismail <i>Universiti Teknologi MARA</i>	Enhancing Hydrogen Production From The Pyrolysis Of Oil Palm EFB by Alkali Metal Sorbent
	46	Woradej Manosroi. <i>Department of Mechanical Engineering, Chiang Mai University</i>	Effects of Temperature Changes, Air Velocities and Volume Fractions on the Single Droplet Evaporation Behaviors at High Ambient Temperatures
	75	Niti Kammuang-Lue, Kritsada On-Ai, Phrut Sakulchangsattajai and Pradit Terdtoon. <i>Department of Mechanical Engineering, Faculty of Engineering, Chiang Mai University</i>	Thermal Characteristics of a Rotating Closed-Loop Pulsating Heat Pipe Affected by Centrifugal Accelerations and Numbers of Turns
	115	Fatin Athirah Mazlan, Dr Alhassan Salami Tijani, Abdul Hadi Abdul Rahim and Muhammad Syakif Abdul Rani. <i>Universiti Teknologi MARA</i>	Investigation Of Fluid Flow In The Bipolar Plate Of a Proton Exchange Membrane Electrolyzer

Date: 16 August 2017
Room: Chocolatee A
Session Name: B1
Track: Automotive Engineering
Session Chair: Dr. Wan Emre/ Ir. Dr. Amir Razi

Time	Paper ID	Author	Paper Title
15:15- 17:15	182	Mohd Najib Muhamed, Mohd Zaidi Omar, Shahrum Abdullah, Zainuddin Sajuri and Wan Fathul Hakim Wan Zamri. <i>Universiti Kebangsaan Malaysia</i>	The Effect of Surface Texture on the Joint Shear Strength of AR500 Steel and AA7075 Aluminium
	187	Himawan Hadi Sutrisno and Triyono Triyono. <i>University State of Jakarta</i>	Designing a Firefighter Motorcycle as an Effort to Provide an Early Response to Fire Disaster: A Study Case in Jakarta Special Capital Region
	235	Muhammad Abdulazeez Uba, Kassim Abdulrahman Abdullah and Waleed Fekry Faris. Abubakar Tafawa Balewa University & <i>International Islamic University Malaysia</i>	Representative Nigerian Anthropometric Data for Automotive Applications
	254	Naziratie Assrinie Assan, Amir Radzi Ab Ghani and Ramzyzan Ramly. <i>Faculty of Mechanical Engineering UiTM</i>	Impact response of tubular structure with internally stacked circular rings
	211	Nurzaki Ikhsan, Ahmad Saifizul Abdullah and Rahizar Ramli. <i>ARTeC UiTM Shah Alam & University Malaya</i>	Development of Full Virtual Heavy Vehicle Model and Experimental Validation on Vehicle Dynamic Characteristics
	225	Argustina Zainuddin, Nur Asiah Kuzaiman, Noor Azlina Mohd Salleh and Salmiah Kasolang. <i>Faculty of Mechanical Engineering UiTM</i>	Quality Green Energy Supply Chain Management Practices in Malaysian Automotive Companies
	255	Naziratie Assrinie Assan, Amir Radzi Ab Ghani and Ramzyzan Ramly. <i>Faculty of Mechanical Engineering UiTM</i>	Design and analysis of impact attenuator for UiTM formula SAE car 2016
	243	Ahsana Aqilah Ahmad, Amirul Abd Rashid and Muhammad Iqbal Sazali. <i>Faculty of Mechanical Engineering UiTM</i>	Worker Safety Improvement at Paper Pleating Production Line Using Poka-Yoke Concept - A Case Study in Automotive Industry

Date: 16 August 2017

Room: Cholatee B

Session Name: B2

Track: Advanced Manufacturing Technology and Simulation

Session Chair: PM Dr-Ing. Yupiter/ Muhammad Razif Abdullah

Time	Paper ID	Author	Paper Title
15:00-17:15	74	Keval Priapratama Prajadhiana, Yupiter Hp Manurung and Alexander Bauer. <i>Universiti Teknologi MARA Malaysia & Chemnitz University of Technology</i>	Comparative Distortion Analysis of Welded T-Joint between 2D-Shell and 3D-Solid Element using FEA with Experimental Verification
	110	Muhammad Razif Abdullah, Mohd Fadzil Faisae Rashid and Muhamad Magffierah Razali. <i>Universiti Malaysia Pahang.</i>	Assembly Line Balancing using Heuristic Approaches in Manufacturing Industry
	112	Prathabrao Muniandy, Mohd Halim Irwan Ibrahim, Sri Yulis M Amin and Mohd Hilmi Othman. <i>University Tun Hussein Onn Malaysia</i>	Parameter Optimization of Metal Injection Moulding: A Review
	122	Komethi Muniandy, Zulkifli Mohamad Ariff and Azhar Abu Bakar. <i>Universiti Sains Malaysia.</i>	Online Strain Measurement during Blown Film Extrusion using Digital Image Correlation
	132	Rosniza Rabilah, Nor 'Aini Wahab, Salina Budin, Talib Ria Jaafar, Siti Mardini Hashim, Mohd Afian Omar and Rosliza Sauti. <i>Universiti Teknologi MARA Pulau Pinang.</i>	Influence of Waste Plastic Binder on Sintered Properties of Injection Moulded M2 HSS
	159	Noreriyanti Hasmuni, Mustaffa Ibrahim, Azli Amin Raus, Md Saidin Wahab and Khairu Kamarudin. <i>Universiti Tun Hussein Onn Malaysia.</i>	Porosity Effects of AlSi10mg Parts Produced by Selective Laser Melting.
	162	Noor Shafawati Badrishah, Nasuha Sa'Ude and Mustaffa Hj. Ibrahim. <i>Universiti Tun Hussein Onn Malaysia</i>	Parameter characteristic of desktop laser engraving kit machine: A review
	165	Hafsa Mohd Noor and Mustaffa Ibrahim. <i>Universiti Tun Hussein Onn Malaysia</i>	Study on Surface Roughness Quality of FDM and MJM Additive Manufacturing Model for Implementation as Investment Casting Sacrificial Pattern

Date: 16 August 2017
Room: Sai Natee
Session Name: B3
Track: Computer Aided Design, Engineering and Technology & Advance Material
Research
Session Chair: Dr. Juri Saedon

Time	Paper ID	Author	Paper Title
15:15- 17:15	123	Siti Nur Humaira Mazlan, Mohd Rizal Alkahari, Faiz Redza Ramli, Mohd Nizam Sudin, Nurul Ain Maidin and Kent Sun Ooi. <i>Universiti Teknikal Malaysia Melaka (UTeM)</i>	Manufacturability of mechanical structure fabricated using entry level 3D printer
	149	Umami Noor Nazahiah Abdullah, Norashiken Othman, Fairuz Romli and Heikki Handroos. Lappeenranta University of Technology & <i>Universiti Putra Malaysia</i>	Investigation on User Experience Goals for Joystick Interface Design
	156	Salim Mkubwa Salim, Fairuz Romli, Jailani Besar and Negin Ozve Aminian. <i>Universiti Putra Malaysia</i>	A Study on Potential Physical Hazards at Construction Sites
	161	Mafalda Antunes and Antonio Grilo. <i>Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa</i>	Application of Axiomatic Design Theory to the Business Process Management's Life Cycle
	147	Putri Syalabiah Abdul Rahim, Nur Azieyana Mohd Nazaruddin, Rizamarhaiza Muda, Wan Mohd Hasif Al-Haziq Ahmad Kamal, Sufizar Ahmad, Hariati Mohd Taib, Shahrudin Mahzan and Muhammad Shamuzzil Shamsudin. <i>Universiti Tun Hussein Onn Malaysia</i>	The Effect of Nickel Oxide (NiO) Compositions in Producing Silica-Nickel Oxide (SiO ₂ -NiO) Foams Using Slurry Method
	157	Mohd Fadli Ahmad Rasyid, Muhamad Saifuddin Salim, Muhammad Razlan Zakaria, Hazizan Md. Akil, Zainal Arifin Mohd Ishak and Mohd Zharif Ahmad Thirmizir. <i>Universiti Sains Malaysia</i>	Effect of Sodium Silicate on the dimensional stability and mechanical behaviour of Nonwoven Flax Reinforced Acrylic based Polyester Composites.
	83	Syarizal Fonna, Syifaul Huzni, Ahmad Zaim and Ahmad Kamal Ariffin. <i>Syiah Kuala University & National University of Malaysia</i>	Simulation of Cathodic Protection on Reinforced Concrete Using BEM

Date: 16 August 2017
Room: Ton Sai
Session Name: B4
Track: Thermofluid and Energy
Session Chair: Dr. Alhassan Salami Tijani/ Dr. Baljit

Time	Paper ID	Author	Paper Title
15:15-17:15	82	Muhammad Syarifuddin Mohamed Zaharin, Nik Rosli Abdullah, Najmi Haziq Badrulhisam, Fazlena Hamzah and Obed Majeed Ali. <i>Universiti Teknologi MARA</i>	Estimation method of heating value properties on variations of alcohol-gasoline blends and volume percentages
	150	Mohd Sofwan Mohd Resali and Hanim Salleh. <i>Universiti Tenaga Nasional</i>	Wireless Condition Monitoring System for Rotating Machinery Powered by a Hybrid Vibration Based Energy Harvester
	113	Helmey Ramdhaney Mohd Saiah, Azmin Shakrine Mohd Rafie and Fairuz Romli. <i>Universiti Putra Malaysia</i>	Freestream Velocity Correction in Narrow Channels
	257	Sufia Razak, Muhad Nawi, Zubair Rehim and Wan Azmi. <i>Faculty of Mechanical Engineering, UiTM & Universiti Malaysia Pahang (UMP)</i>	SiO ₂ -HFE-7000 Nanorefrigerant: Preparation Techniques and Its Applications
	119	Muhammad Nabil Fikri Mohamad, Wan Azmi Wan Hamzah, Khamisah Abdul Hamid and Rizalman Mamat. <i>Universiti Malaysia Pahang (UMP)</i>	Heat transfer performance of TiO ₂ -SiO ₂ nanofluid in water-ethylene glycol mixture
	118	Nurul Nadia Mohd Zawawi, Wan Azmi Wan Hamzah, Mohamad Redhwan Abd Aziz and Sharif Mohd Zaki. <i>Universiti Malaysia Pahang</i>	Thermo-physical properties of metal oxides composite nanolubricants
	263	Mahanijah Md Kamal, Mohd Zaimi Tarmizi and Mohd Ridwan Mohamad Zulkhairie Chee. <i>Universiti Teknologi MARA</i>	Open-Cathode Hydrogen experimental of 5-watt Polymer Electrolyte Exchange Membrane Fuel Cell

Date: 17 August 2017
Room: Cholatee A
Session Name: C1
Track: Automotive Engineering & Thermofluid and Energy
Session Chair: PM Dr. Ramlan Zailani

Time	Paper ID	Author	Paper Title
13:00-15:00	288	Moch. Agus Choiron, Happy Hanifah K., Anindito Purnowidodo and Ahmad Rivai <i>Brawijaya University</i>	The Effect of Placement Ratio and Initial Fold Angle On Crash Box Subjected to Oblique Loading
	6	Cheenan Tan, Cheefai Tan, Mohd Azman Abdullah, S.H. Tang, M. Mohd Rayme and A. Luqman. <i>Universiti Teknikal Malaysia Melaka (UTeM)</i>	A Fault Diagnosis Expert System for Building Cooling Tower
	19	Ahmad Faiz Mohammad, Shekih Ahmad Zaki Shaikh Salim, Mohamed Sukri Mat Ali, Fitri Yakub and Aya Hagishima. <i>Malaysia-Japan International Institute of Technology (MJIT), Universiti UTM & Kyushu University</i>	Wind-Induced Interference in a Random Urban Array
	55	Farah Elida Selamat, Wan Hariz Iskandar Wan Izhana and Bakhtiar Saffuan Baharudin. <i>Universiti Tenaga Nasional & Uzma Engineering Sdn Bhd</i>	Design and analysis of centrifugal pump impeller for performance enhancement
	174	Noor Hafiz Noordin, Azli Abd Razak, Sahril Kushairi, Mohd Faizal Mohamad, Qi Jie Kwong and Sheikh Ahmad Zaki Shaikh Salim. <i>Universiti Teknologi MARA & Malaysian-Japan International Institute of Technology, Universiti Teknologi Malaysia</i>	Preliminary Analysis of Benzene, Toluene, Ethylbenzene, O-Xylene (BTEX) and Formaldehyde inside Vehicle Cabin
	209	Nazarrudin Abdullah Ramdzam and Jamaluddin Mahmud. <i>Universiti Teknologi MARA</i>	Investigating The Shear Behaviour Of Hard Points On Honeycomb Sandwich Panels
	233	Alhassan Salami Tijani and Syarlinaidayu Yaacob. <i>Faculty of Mechanical Engineering UiTM</i>	Parametric Optimization of Organic Rankine Cycle (ORC) for Waste Heat Recovery: A Comparative Study of Different Working Fluids
	285	Ungku Muhammad Zulhilmi Ungku Zakaria and Zulkifli Mohamed <i>Universiti Teknologi MARA</i>	Performance Analysis of Solar Car Suspension System

Date: 17 August 2017

Room: Sai Natee

Session Name: C2 (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering)

Track: Medical Implant & Engineering

Session Chair: Prof. Mitsugu Todo

Time	Paper ID	Author	Paper Title
13:00-15:00	14	Johari Yap Abdullah, Nafij Jamayet, Tengku Noor Daimah Tengku Din, Abdul Manaf Abdullah, Suzana Yahya, Ahmed Mushfiqur Rahman and Md Minhaz <i>Ul Islam Nizami</i>	Fabrication of Ear Prosthesis by the Integration of CAD/CAM System
	87	Siti Norsyahirah Abdul Razak, Jamaluddin Abdullah and Hazizan Md Akil <i>Universiti Sains Malaysia</i>	Medical Implant Production using Three-Dimensional Printing as a Potential Manufacturing Process in Medical Application
	138	Kaname Miura, Hidenori Matsubara and Tanaka Shigeo <i>Kanazawa University & Kanazawa University Hospital</i>	Development of Optical Bone Densitometry Using Near-infrared Light
	167	Mitsugu Todo Kyushu University	Biomechanical Analysis of Hip Joint Arthroplasties using FEA with CT-Image Modelling
	196	Solehuddin Shuib, Nur Faiqa Ismail, Muhd Azman Yahya and Amran Ahmad Shokri <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM)</i>	Design and Analysis of Hybrid Prosthesis for Total Hip Replacement (THR)
	205	Solehuddin Shuib, Amir Haqim Ahmad Fuzi and Siti Mariam Sh Ahmad <i>Universiti Teknologi MARA & SALAM Shah Alam Specialist Hospital</i>	The Design of Reusable Endosurgical Grasper using Compliant Mechanism
	220	Solehuddin Shuib, Muhammad Faris Abd Manap, Abdul Halim Abdullah, Mohd Zamrin Dimon, Ahmad Zafir Romli and Amran Ahmed Shokri <i>Universiti Teknologi MARA & Universiti Sains Malaysia</i>	Epoxy-UHMWPE Acetabular Cup Performance Based on Finite Element Study
	172	Nur Izzah Lina Azaman, Ahsana Aqilah Ahmad and Muhammad Azmi Ayub. <i>Universiti Teknologi MARA</i>	Resistance Behaviour of Quantum Tunneling Composite (QTC) Pill for Tactile Sensor Application

Date: 17 August 2017
Room: Ton Sai
Session Name: C3
Track: Thermofluid and Energy
Session Chair: Dr. Muhad Rozi/ Faiz Mat

Time	Paper ID	Author	Paper Title
13:00- 15:00	168	Wandeep Kaur, Vimala Balakrishnan and Baljit Singh. <i>Universiti Malaya & Universiti Teknologi MARA</i>	Social Media Sentiment Analysis of Thermal Engineering Students for Continuous Quality Improvement in Engineering Education
	148	Sharif M. Z., Azmi W. H., Mohamad Redhwan Abd Aziz, Nurul Nadia Mohd Zawawi and Mamat R. <i>Universiti Malaysia Pahang & Tati University College</i>	Improvement of Nanofluid stability using 4-Step UV-Vis Spectral Absorbency Analysis
	117	Mohamad Redhwan Abd Aziz, Wan Azmi Wan Hamzah, Sharif Mohd Zaki, Nurul Nadia Mohd Zawawi and Rizalman Mamat. <i>Tati University College & Universiti Malaysia Pahang</i>	Sonication Time Effect towards Stability of Al ₂ O ₃ /PAG and SiO ₂ /PAG Nanolubricants
	111	Khamisah Abdul Hamid, Wan Azmi Wan Hamzah, Muhammad Nabil Fikri Mohamad and Rizalman Mamat. <i>Universiti Malaysia Pahang</i>	Heat transfer augmentation of mixture ratio TiO ₂ to SiO ₂ in hybrid nanofluid
	77	Mohanapriya Venkataraman, Jiri Militky, Rajesh Mishra and Sona Jandova. <i>Technical University of Liberec</i>	Unconventional measurement methods and simulation of aerogel assisted thermoregulation
	84	Nur Fawwaz Asri, Teuku Husaini, Abu Bakar Sulong, Edy Herianto Majlan and Wan Ramli Wan Daud. <i>Universiti Kebangsaan Malaysia</i>	Electrochemical Behaviour and Interfacial Contact Resistance of Ti-6Al-4V and SUS 316L plates with Potential Application as a Bipolar Plate in PEMFC
	241	Zainal Abidin Kamarul Baharin and Muhammad Hafiz Mohammad. <i>Universiti Teknologi MARA</i>	Experimental investigations on the performance of a single slope solar still coupled with flat plate solar collector under Malaysian conditions
	265	Khairul Imran Sainan, Alhassan Salami Tijani, Irnie Azlin Zakaria, Wan Ahmad Najmi Wan Mohamed, Suhadiyana Hanapi, Abdol Hadi Abdol Rahim and Shahrin Zikri Sharizman <i>Universiti Teknologi MARA</i>	Preliminary Study of Multiple 2:1 and Single 1:1 Inlet/Outlet Ratio for Serpentine PEMFC Performance

Date: 17 August 2017
Room: Cholatee A
Session Name: D1
Track: Aerospace Science and Technology & Advance Material Research
Session Chair: Dr. Wan Mazlina/ Dr. Rizal

Time	Paper ID	Author	Paper Title
15:15- 17:15	142	Farah Diana Ishak, Fairuz Romli and Kawthar Abdul Rahman. <i>Universiti Putra Malaysia</i>	Public Survey on New In-Flight Food Delivery and Waste Collection System
	143	Negin Ozve Aminian and Fairuz Romli. <i>Universiti Putra Malaysia</i>	Study on the Potential of Airships as Urban Mass Public Transport in Malaysia
	153	Wahyu Kuntjoro, Mohd Razip Abdullah and Muhamad Giri Suada. <i>Universiti Teknologi MARA (UiTM), SIRIM Berhad & Bandung Institute of Technology (ITB)</i>	Flight Thrust Performance of Quadcopter
	201	Mohamad Fuad Sidik and Siti Mariam Abdul Rahman. <i>University Teknologi MARA</i>	Evaluation of Controller Strategies in Air Traffic Management for KLFIR Oceanic Sector
	259	Wan Mazlina Wan Mohamed and Adibah Shuib. <i>Universiti Teknologi MARA</i>	Using Dashboard for Managing Aeronautical Revenues Performance
	166	Sharoul Jambari, Mohd Yazid Yahya, Mohamed Ruslan Abdullah and Mohammed Jawaid. <i>Universiti Teknologi Malaysia & Universiti Putra Malaysia</i>	Characterization Of Hybrid Yarn/Fabrics From Of Kenaf-Kevlar Fibers
	173	Khairunnisa Hairuddin, Ubaidillah Ubaidillah, Nurul Ain Abd. Wahab, Saiful Amri Mazlan, Syamsul Hadi and Harjana Harjana. <i>MJIIT-UTM, UNS & Universitas Sebelas Maret</i>	Development of a Cone Shaped Magnetorheological Elastomer Isolator Based on Waste Tire Rubber
185	Nurulsaidatulsyida Sulong, Anika Zafiah Mohd Rus, Niknormunira Mathassan and Noraini Marsi. <i>Universiti Teknologi MARA, Universiti Tun Hussein Onn Malaysia (UTHM) & KDU University College</i>	Spectroscopic Studies Of Oils And Its Synthesized Bio-Polymer	

Date: 17 August 2017
Room: Sai Natee
Session Name: D2 (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering)
Track: Tissue Engineering
Session Chair: Dr. Aizreena (FBME, UTM)

Time	Paper ID	Author	Paper Title
15:15-17:15	81	Yasuyuki Morita, Fuga Matsubara, Yuhki Toku and Yang Ju <i>Nagoya University, Japan</i>	Use of a Tendon/Ligament Cell Sheet with Mesenchymal Stem Cells and Cyclic Stretch Stimulus for Tendon/Ligament Tissue Restoration
	106	Azizah Pangesty and Mitsugu Todo <i>Kyushu University, Japan</i>	Preparation and Characterization of Porous Tubular Scaffold made of PCL/PLCL Blends for Vascular Tissue Engineering
	204	Ei Yamamoto and Yuki Kawamura <i>Kindai University, Japan</i>	Changes in the Structure and Mechanical Properties of Bone Tissues Obtained from Experimental Animal Models of Lifestyle-Related Diseases
	234	She Man Chung, Weily Khoo, Shing Chee Lim, Mohd Faiz Zakaria and Ching Theng Koh <i>Universiti Tun Hussein Onn Malaysia</i>	Electrospun Gelatin Scaffolds for Tissue Engineering
	245	Weily Khoo, Ching Theng Koh and Shing Chee Lim <i>Universiti Tun Hussein Onn Malaysia</i>	Tough Biomimetic Fibrous Scaffolds for Soft Tissue Engineering Applications
	246	Nor Shamsiah Mohamed and Koh Ching Theng <i>Universiti Tun Hussein Onn Malaysia</i>	Preparation of Siam Weed Extracts for Skin Tissue Engineering
	104	Siva Gopalakrishnan and Ummu Kulthum Jamaludin <i>Universiti Malaysia Pahang</i>	Investigation on Different Types of Blood Glucose Control System
	258	Mohd Afzan Mohd Anuar and Mitsugu Todo. <i>UiTM & Kyushu University, Japan</i>	Mechanics of Posterior Stabilized Total Knee Arthroplasty During Daily Activities in Relation to Prosthesis Condylar and Post-cam Design: A Finite Element Study

Date: 17 August 2017

Room: Ton Sai

Session Name: D3

Track: Thermofluid and Energy & Advance Material Research

Session Chair: Dr. Idris Saad/ Faiz Mat

Time	Paper ID	Author	Paper Title
15:15- 17:15	184	Haris Rachmat, Mohd Rasidi Ibrahim, Sulaiman Hassan, Rino Andias and Erween Rahim. <i>Universiti Tun Hussein Onn Malaysia</i>	The Study of UVAT Tool Holder: Preliminary Investigation of Conventional Machining In Cutting Force And Cutting Temperature
	176	Erween Abd Rahim, Mohd Noor Jaafar, Zazuli Mohid, Mohd Rasidi Ibrahim and Said Ahmad. <i>Universiti Tun Hussein Onn Malaysia</i>	A Study on Cryogenic Supercritical Carbon Dioxide Coolant Delivery Technique when Machining of AISI 1045 Steel
	203	Rosmamuhamadani Ramli, Sabrina M. Yahaya and Rose Elina Ibrahim. <i>Universiti Teknologi MARA</i>	Characterization of Aluminium-Silicon (Al-Si) cast alloy refined with Titanium Diboride (TiB ₂) and Scandium (Sc)
	189	Nur Raihan Mohamed. <i>Universiti Teknologi MARA Perlis</i>	Preparation of Superabsorbent Polymer Composite Based On Polystyrene-graft-Polyacrylic acid /Hectorite Clay and Mung Bean Starch: Effect of Hectorite Clay Content on Thermal and Morphological Behaviour.
	128	Mohamad Azril Suri, Nor Afifah Yahaya and Khadijah Hamzah. <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM)</i>	A Study on the Extraction Process and Optical Properties of Mangosteen Pericarp for Dye Sensitized Solar Cell (DSSC) Application.
	121	Koay Mei Hyie, Zuraidah Salleh, Mardziah Che Murad, Nik Rozlin Nik Mohd Masdek and Nor Azrina Resali. <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM)</i>	Corrosion Behavior of Non-toxic Co-Ni-Fe Coating on Stainless Steel: Effect of Heating Condition.
	202	Mohamad Azam Shah Bin Aziz Shah, Mohd Azmi Bin Yunus, Muhamad Norhisham Bin Abdul Rani, Wan Imaan Izhan Bin Wan Iskandar Mirza and Sahril Bin Kushairi. <i>Universiti Teknologi MARA</i>	Experimental and Finite Element Analysis of Laser Stitch Welded Structure
	267	Jamaluddin Mahmud and Zainudin A. Rasid <i>Universiti Teknologi MARA</i>	The Active Strain Energy Tuning On The Parametric Resonance Of Composite Plates Using Finite Element Method

Date: 18 August 2017
Room: Cholatee A
Session Name: E1
Track: Advanced Materials Research
Session Chair: Ir. Dr. Salina Budin/ Dr. Rozaiman

Time	Paper ID	Author	Paper Title
08:00-10:00	152	Dzullijah Ibrahim, Zahurin Samad, Norasikin Hussin and Yusli Yaakob. <i>Universiti Teknologi Mara & Universiti Sains Malaysia</i>	STEP-NC Interpolator for General 2D and 3D Parametric Curve.
	194	Badroush Nordin, Che Hassan Che Haron, Muammar Faiq Azhar and Nurul Hayati Abdul Halim. <i>Universiti Kebangsaan Malaysia</i>	Overview and Case Study of Cryogenic Cooling in Machining of Nickel Based Alloy
	57	Salina Budin, Koay Mei Hyie and Mohd Asri Selamat. <i>Universiti Teknologi Mara (Pulau Pinang) & SIRIM AMREC</i>	The Effect Of Adding Carbon And Vanadium Carbide On Mechanical Properties Of Ultra-Fine Wc-Co Composite
	64	Talib Ria Jaafar, Mohd Asri Selamat, Mahamad Hisyam Mahamad Basri and Noor Iswadi Ismail. <i>Universiti Teknologi Mara (Pulau Pinang) & SIRIM</i>	Influence of Iron Oxide Powders on Braking Performance of Brake Friction Materials
	67	Siti Nur Liyana Mamaud, Ahmad Zafir Romli, Haizum Faiqah Mustafa Bakri and Faten Najehah Muhamad Hakimi. <i>Institute of Sciences, UiTM</i>	Tensile Properties of Nanoclay (NC)-Acrylonitrile Terminated Polybutadiene (ATBN) Modified Epoxy Composites
	131	Rizamarhaiza.M, S.L.Sulaiman S.Ahmad and H.Taib <i>Universiti Tun Hussein Onn Malaysia (UTHM)</i>	Polyvinyl alcohol/Chitosan/Silicon Dioxide (PVA/CS/SiO ₂) Beads for Removal of Chromium (VI) ions
	133	Nur Azieyana Mohd Nazaruddin, Putri Syalabiah Abdul Rahim, Rizamarhaiza Muda, Wan Mohd Hasif Al-Haziq Ahmad Kamal, Sufizar Ahmad, Mohd Azham Azmi and Hariati Mohd Taib. <i>Universiti Tun Hussein Onn Malaysia (UTHM)</i>	The Effect of Different Binder Compositions in Fabricating Silica Foam (SiO ₂) Via Replication Method
	141	Nor Ain Fatihah Azlisham, Zuliani Mahmood and Dasmawati Mohamad. <i>Universiti Sains Malaysia</i>	Evaluation of Surface Roughness and Compressive Strength of Modified Glass Ionomer Cement with Coumarin Derivatives

Date: 18 August 2017
Room: Cholatee B
Session Name: E2
Track: Advanced Materials Research
Session Chair: Dr. Patthi Hussain (UTP)

Time	Paper ID	Author	Paper Title
08:00-10:00	16	Muhammad Ikhmal, Sufizar Ahmad, Hariati Taib and Tan Chee Chen. <i>Universiti Tun Hussein Onn Malaysia</i>	Physical Properties of Porcelain Ceramic with Influence of Milled Alkali Resistant (AR) Fibreglass for Sewer Pipes Application
	18	Shah Ridhwan Ahmad, Azli Arifin and Shahrum Abdullah. <i>Universiti Kebangsaan Malaysia</i>	Characterisation of Stress Intensity Factor with Magnetic Flux Signal Leakage in Stable Fatigue Crack Growth Region
	20	Noor Faeizah Amat, Andanastuti Muchtar, Mariyam Jameelah Ghazali and Norziha Yahaya. <i>Universiti Kebangsaan Malaysia</i>	Effect of pH of Suspension and Mechanical Treatment on Nanosized Zirconia Dispersion
	30	Najihah Abdul Rahman, Mohamad Faizal Abdullah, Shahrum Abdullah, Wan Fathul Hakim Zamri, Mohd Zaidi Omar and Zainuddin Sajuri. <i>Universiti Kebangsaan Malaysia</i>	Characterising ballistic limits of lightweight laminated structure as a protective panel for armoured vehicle
	31	Muhammad Razlan Zakaria, Muhammad Helmi Abdul Kudus, Hazizan Md. Akil, Mohd Fadli Ahmad Rashid, Muhamad Saifuddin Salim and Mohd Zharif Mohd Thirmizir. <i>Universiti Sains Malaysia</i>	Dielectric performance of Hybrid Carbon Nanotube-Alumina Filled Epoxy Nanocomposites
	44	Raveverma Periyasamy, Assoc Prof Dr Mustafa Bin Hj Ibrahim, Dr Nasuha Bin Sa'Ude, Yarwindran Mogan and Muhammad Sufi Bin Mohd Nasharuddin. <i>Universiti Tun Hussein Onn Malaysia</i>	Mechanical Behaviour Analysis of Thermoplastic Polyurethane/ Polycaprolactone-Based New Fused Deposition Modelling Filament Composite
	52	Mohamad Faizal Abdullah, Shahrum Abdullah, Mohd Zaidi Omar, Zainuddin Sajuri and Risby Mohd Sohaimi. <i>UPNM & UKM</i>	Observing the behaviour of reinforced magnesium alloy with carbon-nanotube and lead under 976 m/s projectile impact
	58	Ahmad Aswad, Talib Ria Jaafar, Salina Budin and Mohd Asri Selamat. <i>SIRIM & UiTM</i>	The Effect of Cobalt, Vanadium Carbide and PKS Activated Carbon Addition on WC-Co Composite: A Study using Taguchi Method

Date: 18 August 2017
Room: Sai Natee
Session Name: E3 (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering)
Track: Occupational Biomechanics & Ergonomics
Session Chair: Dr. Azuwan (FKM,UTM)

Time	Paper ID	Author	Paper Title
08:00-10:00	9	Mohd Azuwan Mat Dzahir, Mohd Azwarie Mat Dzahir, Mohamed Hussein, Zair Asrar Ahmad, Maziah Mohamad, Shaharil Mad Saad and Aizreena Azaman. <i>Universiti Teknologi Malaysia</i>	Hysteresis Modelling of Pneumatic Artificial Muscle using General Cubic Equation and Factor Theorem Prediction Method
	32	Wan Aliff Abdul Saad, Mohd Azuwan Mat Dzahir, Mohamed Hussein, Zair Asrar Ahmad, Maziah Mohamad, Shaharil Mad Saad and Mohd Azwarie Mat Dzahir <i>Universiti Teknologi Malaysia</i>	Posture Detection on Active and Inactive Vertebrae of Spine Biomechanics in Critical Daily Activities
	43	Saiful Firdaus and Halyani Yassim <i>Universiti Teknikal Malaysia Melaka</i>	Conceptual Design Approach and Ergonomics Analysis of Fire Fighting Purpose Shield
	45	Wan Muhammad Syahmi Wan Fauzi, Abdul Rahman Omar, Helmi Rashid, Alias Mohd Saman and Rohani Haron <i>Universiti Teknologi MARA & Cyberjaya University College of Medical Science, Malaysia</i>	Pillion Simulation System (PISIS): An Exclusive System for Simulating Pillion's Motorcycling Experience
	62	Aizreena Azaman, Nurshazni Aiman Mat Isa and Mohd Azuwan Mat Dzahir <i>Universiti Teknologi Malaysia</i>	Effects of Baby Carrier on Wearer's Posture Stability
	108	Sona Jandova <i>Technical University of Liberec, Czech Republic</i>	Foot Strike Pattern in Sport Shoes with Different Construction
	130	Noorshaida Kamaruddin, Zainul Ahmad Rajion, Asilah Yusof, Mohd Ezane Aziz and Firdaus Daud <i>Universiti Sains Malaysia</i>	Automatic Airway Analysis: Reliability and Reproducibility Study
	164	Nurul Atiqah Othman, Noor Ayuni Che Zakaria, Mohd Hanif Ramli, Fazah Akhtar Hanapiah, Jingye Yee and Cheng Yee Low <i>Universiti Teknologi MARA, Malaysia; Universiti Tun Hussein Onn Malaysia</i>	PLC System to Optimize Training Device of Upper Limb Spasticity

Date: 18 August 2017

Room: Ton Sai

Session Name: E4

Track: Aerospace Science and Technology

Session Chair: Prof. Dr. Wirachman Wisnoe

Time	Paper ID	Author	Paper Title
08:00-10:00	10	Zulhilmy Sahwee, Aina Suriani Mahmood, Nazaruddin Abd. Rahman and Khairul Salleh Mohamed Sahari. <i>UNIKL-MIAT & UNITEN</i>	UAV Actuator Fault Detection Through Artificial Intelligent Technique
	35	Hamid Yusoff, Shafiq Bin Suhaimi, Koay Mei Hyie, Noor Iswadi Ismail and Aliff Farhan Bin Modh Yamin. <i>Universiti Teknologi MARA</i>	Experimental Investigation of Effects of Wing Camber on Drag for a Bio-Mimic MAV Flapping Wing
	37	Qummare Azam, Mohd Azmi Ismail and Nurul Musfirah Mazlan. <i>Universiti Sains Malaysia</i>	Experimental study of Bias Acoustic Liner effect on nacelle lip-skin.
	51	Cosmas Pagwiwoko and Louis Jezequel. <i>University of Nottingham Malaysia Campus & Ecole Centrale de Lyon</i>	Modelling of Flutter Vibration using System Dynamic Approach for Analysing Limit Cycle Oscillations
	65	Chin Toong Foo and Badrul Omar. <i>Universiti Tun Hussein Onn Malaysia</i>	Shape Optimization of High-Speed Rail by Biomimetic
	89	Norhafizah Mohamad Dasuki and Fairuz Romli. <i>Universiti Putra Malaysia</i>	Quality Function Deployment for New Standing Cabin Concept of Commercial Transport Aircraft
	126	Noor Iswadi Ismail, Abdul Halim Zulkifli, Hamid Yusoff, Talib Ria Jaafar, Abdul Rahman Hemdi and N. M. Muzammil N. Mustapa. <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA (Pulau Pinang)</i>	Aerodynamic Performances of MAV Wing Shapes
256	Aziz Faiz Shahir, Mohd Faizal Mohamad and Azli Abd Razak. <i>Universiti Teknologi MARA</i>	CFD analysis on the effect of opening configurations on wind-induced ventilation of isolated building	

Date: 18 August 2017
Room: Chocolatee A
Session Name: F1
Track: Advanced Materials Research
Session Chair: Dr. Rozaiman/ Ir. Dr. Salina Budin

Time	Paper ID	Author	Paper Title
10:10-12:10	80	A.S. Yahaya, M.S. Azami, W.I. Nawawi and Helyati Abu Hassan Shaari. <i>UiTM, Cawangan Shah Alam & Perlis</i>	Microwave assisted nitrogen-doped TiO ₂ : Effect of photodegradation at different dyes
	158	Zuliahani Ahmad, Wan Izhan Nawawi Wan Ismail, Hasniraaiman Abdul Hamid, Ahmad Faiza Mohamad and Rozyanty Rahman. <i>Universiti Teknologi MARA Perlis</i>	The Corrosive Properties of Polyester-Glass Fiber Treated Silane Coupling Agent Coatings for Primer Applications.
	224	Nor Dalila Nor Affandi and Nur Najiha Abdul Razak. <i>Universiti Teknologi MARA</i>	Removal of Pigment from Textile Wastewater by Electrospon Nanofibre Membrane
	218	Muhammad Nasrun Faris Mohd Zulkifli and Mohamad Faizul Yahya. <i>Textile Research Group, Faculty Of Applied Science, Universiti Teknologi Mara (Uitm) Shah Alam</i>	3d Angle Interlock Woven Fabric Mechanical Tensile Strength Based On Various Fabric Weft Densities
	179	Martin Borůvka, Luboš Běhálek and Jiří Habr. <i>Technical University of Liberec</i>	Properties of Injection Molded Nanocomposites and Blends Based on PLA, PHBV and L-CNC
	251	Shing Chee Lim, Weily Khoo and Ching Theng Koh. <i>Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia</i>	Electrospinning of Polymeric Fibers
	90	Mohd Rozaiman Aziz, Wahyu Kuntjoro and Valliyappan David Natarajan. <i>Universiti Teknologi MARA (UiTM) Penang</i>	Experimental Investigation on the Ballistic Resistance of Aluminium Plate under High Velocity Impact
	175	Nurul Muhayat, Triyono Triyono, Rizky Danu Rachmanto and Achmad Zubaydi. <i>Universitas Sebeles Maret & Faculty of Marine Technology, Sepuluh Nopember Institute of Technology</i>	Effect of Tool Plunge Depth and Pin Profile on Mechanical Properties of Friction Stir Spot Welded AA5052 Joints

Date: 18 August 2017
Room: Cholatee B
Session Name: F2
Track: Advanced Materials Research
Session Chair: Ir. Dr. Bulan

Time	Paper ID	Author	Paper Title
10:10-12:10	78	W.I. Nawawi, F. Zaid, M.A.M. Ishak and M.S. Azami. <i>UiTM, Perlis</i>	Preparation C-doped TiO ₂ photocatalyst using PEG for photodegradation of RR4 dye
	79	M.S. Azami, W.I. Nawawi, A Zuliahani and Ali H. Jawad. <i>UiTM Shah Alam & Perlis</i>	Nitrogen-doped TiO ₂ prepared under microwave: Operating Parameter study on photodegradation of Reactive Red 4
	180	Petr Lenfeld, Luboš Běhálek and Martin Boruvka. <i>Technical University of Liberec</i>	Application of Cryogenic Grinding for Filler Preparation in the Form of Coconut Nanocomposites into the Thermoplastic Matrix with the Evaluation of Properties while Using Different Types of MAGPP Additives
	92	Nik Normunira Mat Hassan, Anika Zafiah Mohd Rus and Nur Hasalli Ibrahim. <i>KDU University College & University Tun Hussein Onn Malaysia</i>	Discoloration of Renewable Polymer Composite Endurance to UV Irradiation Exposure
	93	Nazrul M. Yusoff, Johari Johari, Ismail Ab. Rahman, Dasmawati Mohamad, Mohd Fadhli Khamis, Adam Husein and Zaihan Ariffin. <i>Universiti Sains Malaysia</i>	Hardness of Flowable Resin Composite from Rice Husk
	69	Amares Singh, Rajkumar Durairaj, Ervina Efzan Mhd. Noor and Yaw Yoong Sia. <i>SEGi University, University Tunku Abdul Rahman (UTAR, MMU)</i>	Reliability Study of Lead Free Sn-3.8Ag-0.7Cu and Copper (Cu) Substrate based on the Microstructure, Physical and Mechanical Properties.
	101	Nur Farah Hanani Mamat, Ali Jawad, Asnida Yanti Ani and Wan Izhan Wan Nawawi. <i>Universiti Teknologi MARA</i>	Adsorption Of Thionine Dye Solution By Chitosan- Activated Charcoal Composite Beads
	102	Mazian Mohammad, Shahrum Abdullah, Nordin Jamaludin and Othman Innayatullah. <i>Universiti Selangor, Universiti Kebangsaan Malaysia & University College Of Technology Sarawak</i>	Fatigue Life Assessment of SAE 1045 Carbon Steel under Strain Events using the Weibull Distribution

Date: 18 August 2017
Room: Sai Natee
Session Name: F3 (Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering)
Track: Biomaterials
Session Chair: Dr. Sukarno/ Mardziah

Time	Paper ID	Author	Paper Title
10:10-12:10	8	Peck Loo Kiew and Kian Hen Chong <i>UCSI University, Malaysia</i>	Development of Fruit-Based Waste Material as Biofloculant for Water Clarification
	100	Siti Zalifah Md Rasib, Nor Firdaus Muhamad, Hazizan Md Akil and Zuratul Ain Abdul Hamid <i>Universiti Sains Malaysia</i>	Preparation and Characterization of pH- and Temperature-responsive by Different Composition Chitosan-P(MAA-co-NIPAM) Hydrogel for Drug Delivery System
	170	Solehuddin Shuib, Muhd Azman Yahya and Ahmad Zafir Romli <i>Universiti Teknologi MARA, Malaysia</i>	Sound Absorption Coefficient of Coir Fibre with Poly-Lactic Acid (PLA)
	178	Nuru Ain Haris, Siti Mariana Hosnie, Muhammad Hussain Ismail and Mazyan Yahaya <i>Universiti Teknologi MARA & Politeknik Sultan Salahuddin Abdul Aziz Shah, Malaysia</i>	β -Phase TiNb Alloys As Load-Bearing Implant
	193	Nik Rozlin, Mardziah Che Murad, Koay Mei Hyie, Zuraidah Salleh and Zam Azuan <i>Universiti Teknologi MARA, Malaysia</i>	Electrochemical Study of Titanium and Stainless Steel in Simulated Body Fluid
	262	Mardziah Che Murad, Nik Rozlin Nik Masdek, Koay Mei Hyie and Iis Sopyan <i>Universiti Teknologi MARA & International Islamic University of Malaysia</i>	Physicochemical Characteristics of Magnesium Hydroxyapatite (MgHA) Derived via Wet Precipitation Method
	260	Helmi Rashid, Abdul Rahman Omar, Ismail Nasiruddin Ahmad, Zulkifli Mohamed, Wan Muhammad Syahmi Wan Fauzi, Zamalia Mahmud and Rohani Haron. <i>Universiti Teknologi MARA, Malaysia</i>	Motorcyclists' Prolonged Riding Simulation: The Setup and Procedures
	250	Sukarnur Che Abdullah, Mohamad Dzulhelmy Amari and N. I. Asyraf Zainudin. <i>Universiti Teknologi MARA, Malaysia</i>	Stereo Vision Distance Measurement Assessment

Date: 18 August 2017
Room: Ton Sai
Session Name: F4
Track: Computer Aided design, Engineering and Technology
Session Chair: TBA

Time	Paper ID	Author	Paper Title
10:10-12:10	11	Nurul Ain Maidin, Mohd Hidayat Ab Rahman, Mohd Nazri Ahmad, Mohd Hairizal Osman and Mohammad Khalid Wahid. <i>UTeM</i>	A Prototype Development of Anti-Hunchback Device
	34	Wasana Boonsong, Oluseye Adeleke and Widad Ismail Rajamangala University of Technology Srivijaya Songkhil, Ladoke Akintola <i>University of Technology, Ogbomoso & Universiti Sains Malaysia.</i>	Proposed Low Power Consumption of Power Monitoring and Management System Embedded RFID with WSN and IoT Technologies
	36	Tuan Noraihan Azila Tuan Rahim, Abdul Manaf Abdullah, Hazizan Md Akil, Dasmawati Mohamad and Zainul Ahmad Rajion. <i>Universiti Sains Malaysia</i>	Optimization of the 3D printing parameters on dimensional accuracy and surface finishing for new polyamide 6 and its composite used in fused deposition modeling (FDM) process
	54	Pramod S Kataraki and Mohd Salman Abu Mansor. <i>Universiti Sains Malaysia</i>	Identification of freeform depression feature in a part using vertex attributes from feature volume
	66	Nor Mahani Md Rasidi, Shahrum Abdullah, Dzuraidah Abd Wahab, Rizauddin Ramli and Ruhizan Mohammad Yasin. <i>Universiti Kebangsaan Malaysia</i>	Assessing Technique Applicability towards Ideation Taxonomy for Engineering Design Concept
	88	Norasikin. <i>Universiti Teknologi MARA.</i>	Design of Jig for Coordinate Measuring Machine
	96	Lohgheswary Nagarethinam, Zulkifli Mohd Nopiah, Azrilah Abdul Aziz and Effandi Zakaria <i>Universiti Kebangsaan Malaysia & King Abdul Aziz University</i>	Investigating the Curriculum of Engineering Mathematics for New Teaching Approach
	230	Patthi Hussain and Asmawi Ismail. <i>Universiti Teknologi PETRONAS & UniKL</i>	Fe-Al Diffusion Bonding: Effect of Reaction Time on the Interlayer Thickness

Date: 18 August 2017
Room: Cholatee A
Session Name: G1
Track: Advanced Materials Research
Session Chair: Armansyah

Time	Paper ID	Author	Paper Title
14:00-16:00	199	Armansyah, Winda Astuti and Juri Saedon. <i>Bina Nusantara University & Universiti Teknologi MARA</i>	Development of Prediction System Model for Mechanical Property in Friction Stir Welding Using Support Vector Machine (SVM)
	195	Badroush Nordin, Che Hassan Che Haron, Muammar Faiq Azhar and Nurul Hayati Abdul Halim. <i>Universiti Kebangsaan Malaysia</i>	Performance of coated carbide tools when turning Inconel alloy 718 under cryogenic condition using RSM
	186	Niluh Made Lugasa P. K. Yasari, Nurul Muhyat, Triyono Triyono and Yudit C. N. Saputro. <i>Universitas Sebelas Maret</i>	Microstructural and Mechanical Properties of Underwater Wet Welded SS400 Steel
	177	Said Ahmad, Erween Abd Rahim, Mohd Amri Lajis and Mohd Rasidi Ibrahim. <i>Universiti Tun Hussein Onn Malaysia</i>	Powder Mixed Dielectric in Electrical Discharge Machining of Inconel 718
	160	Muhamad Fitri and Shahrudin Mahzan. <i>Universitas Batam & Universiti Tun Hussein Onn Malaysia</i>	Influence of Coupling Agent and Fibre Treatment to Mechanical Properties of Oil Palm Fibre Reinforced Polymer Matrix Composite
	60	Siti Nur Liyana Mamaud, Ahmad Zafir Romli and Noor Amira Nabillah Ab Rahim. <i>Center of Polymer Composites Research & Technology, Institute of Science, Universiti Teknologi MARA, Shah Alam, Selangor.</i>	Synergistic Effect Of Hybrid Nanofillers (Nano- Calcium Carbonate/ Nano- Silicone Dioxide) On The Mechanical Properties Of Modified Epoxy Resin (Ep/Ctbn)
	73	Helyati Abu Hassan Shaari, Normasyitah Johar, Wan Izhan Nawawi Wan Ismail and Norzurain Mukhsin. <i>Universiti Teknologi MARA</i>	Synthesis and Characterization of PS-b-PDMS Block Copolymer
	76	Nik Normunira Mat Hassan, Anika Zafiah Mohd Rus, Nurulsaidatulasyida Sulong and Zainon Sharmila Shamsudin. <i>KDU University College, University Tun Hussein Onn Malaysia & University Technology MARA</i>	FTIR and UV-Vis of Renewable Polymer Composite Endurance to UV Irradiation Exposure

Date: 18 August 2017
Room: Cholatee B
Session Name: G2
Track: Advanced Manufacturing Technology and Simulation
Session Chair: Faiz Mat/ Dr. Idris Saad

Time	Paper ID	Author	Paper Title
14:00- 16:00	2	Nasuha Sa'Ude, Mustaffa Ibrahim and Mohd Halim Irwan Ibrahim. <i>Universiti Tun Hussein Onn Malaysia</i>	Additive Manufacturing of Copper-ABS Filament By Fused Deposition Modeling (FDM)
	5	Azli Amin Ahmad Raus, Md Saidin Wahab, Mustaffa Hj Ibrahim, Khairu Kamurudin, Aqeel Ahmed Bhutto and Nasuha Sa'Ude. <i>University Tun Hussein Onn Malaysia</i>	A Comparative Study Of Mould Base Tool Materials In Plastic Injection Moulding To Improve Cycle Time And Warpage Using Statistical Method.
	12	Mohd Hidayat Ab Rahman, Nurul Ain Maidin, Mohd Nazri Ahmad, Mohd Hairizal Osman and Mohammad Khalid Wahid. <i>Universiti Teknikal Malaysia Melaka</i>	The Comparison Study of Handgrip Pressure on Steering Wheel National Cars (Proton & Perodua)
	15	Seha Saffar, Zamberi Jamaludin and Fairul Azni Jafar. <i>Universiti Teknikal Malaysia Melaka</i>	Investigating the Influences of Automated Guided Vehicles (AGVs) as Material Transportation for Automotive Assembly Process
	23	Nur Asiah Kuzaiman, Argustina Zainuddin, Noor Azlina Mohd Salleh and Salmiah Kasolang. <i>Universiti Teknologi MARA</i>	Green Lean Tqm Islamic Leadership Management Practices in Malaysian Food Companies
	24	Mohaddeseh Ahmadipourrouposht, Noordin Mohd Yusof and Wong Kuan Yew. <i>Universiti Teknologi Malaysia (UTM)</i>	QFD-Operational Research as an Integrated Method for Developing Product Design Process in One-of-a-kind Production
	28	Muhammad Farhan Mohd Suhaimi and Noor Azlina Mohd Salleh. <i>Universiti Teknologi MARA (UiTM)</i>	A Case Study on The Improvement of Productivity and Efficiency of a Quality Control Line for a Cutting Tool Manufacturer.
	151	Normariah Che Maideen, Shuib Sahudin, Hasnida Ab. Samat and Salina Budin. <i>Universiti Teknologi Mara, Universiti Malaysia Perlis & Universiti Sains Malaysia</i>	Synthesizing The Machine's Availability In Overall Equipment Effectiveness (Oee)

Date: 18 August 2017

Room: Sai Natee

Session Name: G3

**Track: Malaysia-Japan Joint Symposium on Biomechanics & Medical Engineering /
Mechatronics, Control And Intelligent System**

Session Chair:

Time	Paper ID	Author	Paper Title
14:00- 16:00	7	Norashikin Ahmad Kamal, Sangmin Shin and Heekyung Park. <i>Universiti Teknologi Mara, Universiti of Utah & Korea Advanced Institute of Science and Technology (KAIST)</i>	Predictive Model of Parameters Validation for the Vortexanda Technique by using Fuzzy Logic and Neural Network.
	21	Ang Chun Kit, Kiew Peck Loo, Mohd Fauzi and Tey Wah Yen. <i>UCSI University</i>	An Artificial Approach Using Fuzzy Logic for Sleep Quality Measurement
	33	Yat Sheng Kong, Shahrum Abdullah, Dieter Schramm, Mohd. Zaidi Omar, Sallehuddin Mohd. Haris and Tobias Bruckmann. <i>Universiti Kebangsaan Malaysia & University of Duisburg-Essen</i>	The Need to generate a Force Time History Towards Life Assessment of a Coil Spring
	40	Norshariza Mohd Salleh, Ruhizan Liza Ahmad Shauri, Khairunnisa Nasir and Nurul Hanani Remeli. <i>UiTM Shah Alam Malaysia</i>	Fuzzy-PID Position Control of a Three Fingered Robot Hand for Grasping Varying Loads
	49	Hokyoo Lee, Mohd Nor Azmi Bin Ab Patar, Takashi Komeda, Jamaluddin Mahmud and Yoshiyuki Takahashi. <i>Shibaura Institute of Technology, UiTM Shah Alam & Toyo University</i>	Development of quantitative evaluation method in occupational therapy exercise for upper limb motor function rehabilitation
	50	Hokyoo Lee, Mohd Nor Azmi Bin Ab Patar, Takashi Komeda, Jamaluddin Mahmud and Yoshiyuki Takahashi. <i>Shibaura Institute of Technology, UiTM Shah Alam & Toyo University</i>	Evaluation of four-wheel vehicle driven by lower limb with electric pedaling assistance for elderly people
	63	Md Fahmi Abd Samad and Abdul Rahman Mohd Nasir. <i>Universiti Teknikal Malaysia Melaka</i>	Parameter Magnitude-Based Information Criterion in Identification of Discrete-Time Dynamic System
	97	Airee Afiq Abd Rahim, Shahrum Abdullah, Salvinder Singh Karam Singh and Mohd Zaki Nuawi. <i>Universiti Kebangsaan Malaysia</i>	Relationship between time domain and frequency domain strain signal – Application to real data

Date: 18 August 2017
Room: Ton Sai
Session Name: G4
Track: Adhesion, Friction, Wear and Lubrication in Surface Interaction
Session Chair: TBA

Time	Paper ID	Author	Paper Title
14:00-16:00	13	Muhammad Aizat Md Alias and Muhamad Azwar Azhari. <i>Universiti Teknikal Malaysia Melaka</i>	Preliminary Feasibility Studies of Vegetable Oil as Substitution of Mineral Lubricant
	17	Muhamad Azwar Azhari and Muhammad Syafi Md Sallehan. <i>Universiti Teknikal Malaysia Melaka</i>	Oxidation Stability Comparison between Zinc Dialkyldithiophosphate and Zinc Diamyldithiocarbamate Induced Palm Oil Bio-lubricants
	59	Wan Mohamad Aiman Wan Yahaya and Syahrullail Samion. <i>Universiti Teknologi Malaysia</i>	The effect of low temperature test on lubrication performance of palm kernel oil with addition of PPD as a lubricant (ASTM D4172)
	71	Muhammad Hafiz Hassan, Jamaluddin Abdullah, Abdus Samad Mahmud and Azwan Supran. <i>School of Mechanical Engineering, Engineering Campus, Universiti Sains Malaysia</i>	Effect of drill geometry and drilling parameters on the formation of adhesion layer in drilling composite-metal stack- up material
	129	Zuan Azhary Mohd Salleh, Syahrullail Samion, Norzita Ngadi and Nurun Najwa Ruslan. <i>FKM-UTM</i>	Bio-based Lubricants from Modification of RBD Palm Kernel Oil by Trans-Esterification
	154	Mohamad Redhwan Abd Aziz, Wan Azmi Wan Hamzah, Muhammad Aminullah Abdul Rahman, Mohd Sharif Mohd Zaki, Nurul Nadia Mohd Zawawi, Kumaran Kadirgama and Syahril Ashraf Mohd Nor. <i>Universiti Malaysia Pahang & TATI University College</i>	Tribology investigation of Al ₂ O ₃ /PAG nanolubricant for application in automotive compressor
	169	Erween Abd Rahim, Amiril Sahab Abdul Sani, Norfazillah Talib, Kamaruddin Kamdani, Mohammad Zulafif Rahim and Syahrullail Samion. <i>Universiti Tun Hussein Onn Malaysia</i>	Performance Evaluation of Palm-Olein TMP Ester Containing Hexagonal Boron Nitride and an Oil Miscible Ionic Liquid as Bio-Based Metalworking Fluids
	181	Triyono Triyono, Sri Hastuti and Neng Sri Suharty. <i>Universitas Sebelas Maret</i>	Shear Strength of the Mixed Adhesive Joint Silyl Modified Polymer-Epoxy in Single Lap Joint Aluminum

Poster Presentation

Thermofluid and Energy (P1)

Date: 16 August 2017

Venue: Terrace

Time: 13:00 – 15:00

Poster No.	Paper ID	Author	Paper Title
1	240	Mohamad Ali Ahmad, Salmiah Kasolang and Norhanifah Abdul Rahman. <i>Universiti Teknologi MARA</i>	Wear element monitoring by Spectrometric Analysis
2	120	Mohamad Zulfazli Arief Abd Latif, Muhammad Aiman Ahmad and Rizal Effendy Mohd Nasir. <i>Universiti Teknologi MARA</i>	K-180 G Micro Gas Turbine Performance Evaluation
3	163	Idris Saad, Nik Rosli Abdullah and Aman Mohd Ihsan Mamat. <i>Universiti Teknologi MARA (Shah Alam)</i>	Experimental Investigation of Diesel Engine Run with Waste Cooking Oil–Petrol Blends
4	171	Ahmad Hussein Abdul Hamid, Salmiah Kasolang, Zulkifli Abdul Ghaffar and Mohd Hafiz Mohd Noh <i>Universiti Teknologi MARA</i>	On the Effect of Central Jet in Solid Cone Pressure-Swirl Atomizers
5	223	Muhammad Fairuz Remeli, Mohd Arif Fikri Rosli and Baljit Singh. <i>Universiti Teknologi MARA</i>	Investigation of Thermosyphon Performance for Different Working Fluids
6	1	Muhad Nawawi and Mohamad Sabiq Aiman Azhar <i>Universiti Teknologi MARA</i>	Aerodynamics Performance of Barn Swallow Bird at Top Speed: A Simulation Study
7	25	Rizal E. M. Nasir, Wirachman Wisnoe and Wahyu Kuntjoro. <i>Universiti Teknologi MARA</i>	The Effect of Elevons Deflection to Aerodynamic Coefficients of A Tail-less Blended Wing-Body Planform
8	272	Irnie Zakaria, Wan Ahmad Najmi Wan Mohamed, Khairul Imran Sainan, Muhad Rozi Mat Nawawi and Gholam Hasan Najafi <i>Universiti Teknologi MARA</i>	Numerical Analysis of Al ₂ O ₃ nanofluids in serpentine cooling plate of PEM fuel cell
9	266	Muhammad Abdillah Alwi, Mohd Faizal Mohamad, Azli Abd Razak and Muhd Azhar Zainol <i>Universiti Teknologi MARA</i>	Large-Eddy Simulation of Turbulent Flow Field within Urban Street Canyon with Overhangs
10	183	Lippong Tan, Abhijit Date, Lai Chet Ding, Baljit Singh and Bingjie Zhang. <i>School of Engineering, RMIT University</i>	A Preliminary Study of Firefighter's Clothing using Organic and Inorganic Phase Change Material

Poster Presentation

Advance Material Research (P2)

Date: 16 August 2017

Venue: Terrace

Time: 15:15 – 17:15

Poster No.	Paper ID	Author	Paper Title
11	136	Nor Hafiez Mohamad Nor, Muhammad Hussain Ismail, Hazran Husain, Juri Saedon and Mohd Azman Yahaya. <i>Universiti Teknologi MARA</i>	Characterization Study on Particle Debris of Grinding Process for Metal Injection Molding (MIM)
12	137	Nor Hafiez Mohamad Nor, Muhammad Husain Ismail, Hazran Husain, Juri Saedon and Mohd Azman Yahaya. <i>Universiti Teknologi MARA</i>	Optimizing Sintering Process to Produce Highest Density of Porous Ti-6Al-4V
13	29	Syahmi Shahar and Noor Azlina Mohd Salleh. <i>Universiti Teknologi MARA</i>	Cycle Time Improvement by Lean Six Sigma for the Cutting Tool Production Line
14	216	Adila Nalisa Mohd Roslan, Jamaliah Said and Muhammad Hussain Ismail. <i>Universiti Teknologi MARA</i>	Microstructure and Mechanical Properties of Copper Feedstock via Metal Injection Moulding (MIM) Process
15	107	Mohd Hanif Mohd Ramli. <i>Universiti Teknologi MARA</i>	A New Phenomenological-Based Rate-Dependent Hysteresis Operator for Hysteresis Characterization
16	198	Muhammad Zaiyad Ismail, Nur Akmal Azizan, Rabi'atul'adawiyah Ja'afar and Muhammad Azmi Ayub. <i>Universiti Teknologi MARA</i>	DC Motor Friction Identification With ANFIS and LS-SVM Method
17	221	Nurul Muthmainnah Mohd Noor, Ikmal Nazmi Khairoll Anuar and Yaakub Yusof. <i>Universiti Teknologi MARA</i>	Implementation of Fuzzy Logic System for Motor Motion Generation Based on Electrooculogram
18	261	Shahrul Hisyam Marwan, Giha Tardan, Muhammad Syafiq Zainal and Abdul Halim Abdullah. <i>Universiti Teknologi MARA</i>	Effects of Stem Mal-alignment in The Primary Stability of Total Hip Arthroplasty
19	135	Nor Hafiez Mohamad Nor, Hazran Husain, Juri Saedon, Mohd Azman Yahaya and Mohd Faruqi. <i>Universiti Teknologi MARA</i>	Equipped with Torsion Beam Suspension System
20	61	Valliyappan David Natarajan and Mohd Azlan. <i>Universiti Teknologi MARA</i>	Moisture Absorption Properties and Shock Cushioning Characteristics of Bio-Based Polyurethane Foam Composites

Poster Presentation

Advance Material Research (P3)

Date: 17 August 2017

Venue: Terrace

Time: 13:00 – 15:00

Poster No.	Paper ID	Author	Paper Title
21	215	Jamaliah Md Said, Adila Nalisa Mohd Roslan and Muhammd Hussain Ismail. <i>Universiti Teknologi MARA</i>	The Effect of Different Sintering Temperature of Copper Feedstock through Metal-Injection-Moulding (MIM) process
22	226	Hazran Husain, Tuan Mohd Noridham Tuan Lah, Nor Hafiez Mohamad Nor, Juri Saedon and Mohd Azman Yahaya. <i>Universiti Teknologi MARA</i>	Effect of Silane Filler Composition on Mechanical Properties of Ethylene Propylene Diene Monomer Rubber Compounding
23	56	Nor Fazli Adull Manan, Nik Rozlin Nik Mohd Masdek, Abdul Qayyum Abdul Aziz and Zuraidah Salleh. <i>Universiti Teknologi MARA</i>	The Study Of Corrosion Behaviour Of Cobalt-Iron (Cofe) Alloy Coating
24	139	Nor Hafiez Mohamad Nor, Muhammad Hussain Ismail, Hazran Husain, Juri Saedon and Mohd Azman Yahaya. <i>Universiti Teknologi MARA</i>	Development of Ti-Nb with Palm Stearin Binder
25	140	Nor Hafiez Mohamad Nor, Muhammad Hussain Ismail, Hazran Husain, Juri Saedon and Mohd Azman Yahaya. <i>Universiti Teknologi MARA</i>	Sintered Strength of Ti-6Al-4V by Metal Injection Molding (MIM) using Palm Stearin Binder
26	94	Khalissah Muhammad Yusof and Bulan Abdullah. <i>Universiti Teknologi MARA</i>	The Effects Of 0.16 % Chromium + 1.32% Nickel Addition On Austempered Ductile Iron For Mechanical Properties And Slurry Erosion
27	95	Khalissah Muhammad Yusof and Bulan Abdullah. <i>Universiti Teknologi MARA</i>	The Effect of Slurry Erosion Wear on Boronized Alloyed Ductile Iron (0.019% Niobium and 0.145% Vanadium)
28	210	Juri Saedon, Norkamal Jaafar, Mohd Azman Yahaya, Nor Hafiez Mohamad Nor, Hazran Husain and Mohd Shahrman Adenan.	Kerf Width Modelling Using Response Surface Methodology in WEDM TI-6AL-4V
29	232	Razali Hassan, Abdul Ghalib Tham and Nik Mohd Baihaki Abd Rahman. <i>Universiti Teknologi MARA</i>	Prediction of Flux Cored Arc Welding (FCAW) Parameters and Bead Geometry in Overhead Position (4F)
30	208	Mashitah Maso'od, Muhammad Hussain Ismail, Rosliza Razali and Istikamah Subuki. <i>Universiti Teknologi MARA</i>	Effect of Sintering Temperatures on Microstructural Changes and Phase Transformation of Nearly Equiatomic Microporous NiTi Alloys Produced by Metal Injection Moulding

Poster Presentation

Computer Aided Design, Engineering and Technology (P4)

Date: 17 August 2017

Venue: Terrace

Time: 15:15 – 17:15

Poster No.	Paper ID	Author	Paper Title
31	222	Mohd Syazwan Mohd Zin, Mohd Azmi Yunus, Wan Imaan Izhan Wan Iskandar Mirza, Ahmad Azlan Mat Isa, Muhamad Norhisham Abdul Rani and Zulkifli Mohamed. <i>Universiti Teknologi MARA (UiTM)</i>	Modal And FRF Based Updating Methods For The Investigation Of The Dynamic Behavior Of A Plate
32	197	Mohd Saiful Bahari Shaari, M. Shamil Jafarullah, Zulkifli Mohamed and Armansyah Armansyah. <i>Universiti Teknologi MARA</i>	Peak Temperature Analysis of Stir Friction Welding Using Finite Element Method
33	26	Juri Saedon, Mujahidah Zaira Azlan, Nor Hafiez Mohamad Nor, Mohd Azman Yahaya and Hazran Husain. <i>Universiti Teknologi MARA.</i>	CAD/CAE/DOE Application Towards Multi Objectives Optimization
34	191	Wan Imaan Izhan Wan Iskandar Mirza, Mohd Azmi Yunus, Ahmad Burhani Ahmad Basri, Ahmad Azlan Mat Isa and Muhamad Norhisham Abdul Rani. <i>Universiti Teknologi MARA</i>	Frequency Based Substructuring Method for the Investigation of the Dynamic Behaviour of a Beam Structure
35	192	Ahmad Burhani Ahmad Basri, Muhamad Norhisham Abdul Rani, Mohd Azmi Yunus, Wan Imaan Izhan Wan Iskandar Mirza and Siti Akmar Abu Samah. <i>Universiti Teknologi MARA</i>	Wave-Based Substructuring Method for Dynamic Behaviour Investigation of Solid Meshing Based Finite Element Model of a Structure
36	227	Hazran Husain, Juri Saedon, Nor Hafiez Mohamad Nor, Muhammad Izzat Nor Ma'Arof and Muhammad Abdul Wahab. <i>Universiti Teknologi MARA & INTI collage</i>	Topology Optimization of an Engine Mounting Bracket
37	228	Kamarul Nizam Hassan, Ahmad Kamil Hussain and Jamaluddin Mahmud. <i>Universiti Teknologi MARA</i>	Static Stability Determination Of An Exhaust Stack Structure Using Finite Element Analysis

38	229	Mohamad Mali, Azizul Hakim Samsudin, Jamaluddin Mahmud and Ahmad Kamil Hussain. <i>Universiti Teknologi MARA</i>	Failure Analysis of Composite Laminates Under Biaxial Tensile Load Due to Variations in Lamination Scheme
39	231	Razali Hassan, Mohd Amirul Qayyum Mohd Amin and Ya'akob Yusof. <i>Universiti Teknologi MARA</i>	Mechanical Design and Development of Humanoid Robot
40	72	Muhd Faiz Mat, Dahia Andud, Yupiter Manurung, Salina Saidin and Norridzwan Nordin. <i>Universiti Teknologi MARA</i>	Parameters Identification for Weld Quality, Strength and Fatigue Life Enhancement on HSLA (S460G2+M) using Manual GMAW followed by HFMI/PIT

Poster Presentation

Computer Aided Design, Engineering and Technology (P5)

Date: 18 August 2017

Venue: Terrace

Time: 08:00– 10:00

Poster No.	Paper ID	Author	Paper Title
41	237	Rohaizat Omar, Muhamad Norhisham Abdul Rani, Wan Imaan Izhan Wan Iskandar Mirza, Mohd Azmi Yunus and Mohd Hakimi Othman. <i>SIRIM Industrial Research</i>	Finite Element Modelling and Updating for Bolted Lap Joints
42	238	Mohamad Azam Shah Aziz Shah, Mohd Azmi Yunus, Muhamad Norhisham Abdul Rani, Nor Azela Tormidi, Ahmad Azlan Mat Isa and Wan Imaan Izhan Wan Iskandar Mirza. <i>Universiti Teknologi MARA (UiTM)</i>	Closed Mode Separation of The Symmetrical Structure
43	268	Kausalyah Venkatason <i>Universiti Teknologi MARA</i>	Mathematical Modelling of Plastic Injection Molding Process Using Central Composite Design (CCD) Sampling Method and Polynomial Response Surface Methodology (RSM)
44	248	Nabill Hidzir Pauzi and Shahrul Azam Abdullah. <i>Universiti Teknologi MARA (UiTM)</i>	Currency Identification Assistant For Visually Impaired
45	264	Nor Fazli Adull Manan, Abdul Hakeem Abdul Aziz, Jamaluddin Mahnud and Abdul Halim Abdullah. <i>Universiti Teknologi MARA</i>	Analysis Of Dryness Effect On Skin By Adapting Hyperelastic Constitutive Model
46	279	Mohammad Al Faiz Hilmi Mohd Al Zahari, Abdul Halim Abdullah, Dr Nor Fazli Adull Manan, Shahrul Hisyam Marwan	Prediction of Skull Fractures and Brain Injury using Finite Element Analysis

		and Muhammad Hazli Mazlan	
47	280	Nur Nadirah Khairu Najhan, Khairul Imran Sainan, Mohd Saiful Bahari Saari and Zulkifli Mohamed <i>Universiti Teknologi MARA</i>	Mechatronic Design & Intergration of Human Following Robot
48	281	Nurul Farah Amalina Zulkepli, Khairul Imran Sainan, Mohd Saiful Bahari Saari and Zulkifli Mohamed <i>Universiti Teknologi MARA</i>	Design and Development of Universal Wheelchair Transporter
49	280	Nur Nadirah Khairu Najhan, Khairul Imran Sainan, Mohd Saiful Bahari Saari and Zulkifli Mohamed <i>Universiti Teknologi MARA</i>	Mechatronic Design & Intergration of Human Following Robot
50	276	Farizah Adliza Ghazali, Yakub Md Taib, Zuraidah Salleh Salleh and Yupiter Hp Manurung <i>Universiti Teknologi MARA</i>	Improvement of Mechanical Properties in Treated Spot Welded Joint

Poster Presentation

Advance Material Research (P6)

Date: 18 August 2017

Venue: Terrace

Time: 10:10 – 12:10

Poster No.	Paper ID	Author	Paper Title
51	116	Mazyan Yahaya, Jamaluddin Mahmud, Muhammad Hussain Ismail, Maheran Sulaiman and Siti Mariana Hosnie. <i>Politeknik Nilai, Malaysia & Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM)</i>	Variation of Beta Phase Formation with Niobium as Alloying Element In Titanium Powder- Effect to Mechanical Poperties
52	239	Ilya Izyan Shahrul Azhar, Zuraidah Salleh, Syarifah Yunus and Koay Mei Hyie. <i>Universiti Teknologi MARA (UiTM)</i>	The Mechanical Properties of A New Composite Material for Railway Sleeper Application
53	252	Syarifah Yunus, Zuraidah Salleh, Nik Rozlin Nik Mohd Masdek, Yakub Md. Taib, Farizah Adliza Ghazali and Koay Mei Hye. <i>Universiti Teknologi MARA (UiTM)</i>	Effect of Impact to a Two-Difference Layer Arrangement of Kenaf Hybrid Composites
54	207	Suffiyana Akhbar, Istikamah Subuki, Rahida Wati Sharudin and Muhammad Hussain Ismail.	Performance of Polycaprolactone/Hydroxyapatite (PCL/HA) Composite Blended by Ultrasound Assisted Melt

		<i>Universiti Teknologi MARA (UiTM)</i>	Blending
55	206	Nor Shamimi Shaari, Aidah Jumahat, Muhammad Hussain Ismail and Mazyan Yahaya. <i>Universiti Teknologi MARA (UiTM)</i>	Sintering of Cu/CNTs via Powder Metallurgy Route and its Dimensional Analysis
56	287	Shahidan Mohamad and Suhaila Abd Halim <i>Universiti Teknologi MARA</i>	Image Enhancement Process on Digital Radiographic Image with Weld Discontinuities
57	277	Mimi Azlina Abu Bakar, Salmiah Kasolang, Mohamad Ali Ahmad and Dedisaputra Herman <i>Universiti Teknologi MARA</i>	Tribological Effects of Additive Hybrid ZrO ₂ /Al ₂ O ₃ in Bio-Lubrication
58	282	Nor Syafirah Abdul Samat, Ahmad Azlan Mat Isa and Muhamad Azhan Anuar <i>Universiti Teknologi MARA</i>	Performance Evaluation of Dynamic Absorbers Based on Randy Fox and Dunkerley Methods
59	214	Nur Asiah Kuzaiman, Argustina Zainuddin, Noor Azlina Mohd Salleh, Salmiah Kasolang and Amirul Abd Rashid. <i>Universiti Teknologi MARA</i>	Green Lean Tqm Islamic Process Management Practices In Malaysian Food Companies
60	244	Naziratie Assrinie Assan, Amir Radzi Abdul Ghani and Ramzyzan Ramly. <i>Universiti Teknologi MARA</i>	Crush Response Of Tubular Structure With Internally Stacked Circular Rings

Poster Presentation

Thermofluid and Energy (P7)

Date: 18 August 2017

Venue: Terrace

Time: 14:00 – 16:00

Poster No.	Paper ID	Author	Paper Title
61	278	Mohd Hafiz Mohd Noh, Ahmad Hussein Abdul Hamid and Koichi Mori <i>Universiti Teknologi MARA</i>	The Length Scale Effect between Wall and Closes Field Point on a Single Turbine Blade Simulation
62	269	Nuraida Aadilia Baharin and Baljit Singh Bathal Singh <i>Universiti Teknologi MARA</i>	Construction and Operations of First Salinity Gradient Solar Pond in Malaysia
63	273	Salmiah Kasolang and Mohamad Ali Ahmad <i>Universiti Teknologi MARA</i>	Optimization of Response Surface Method in Characterization of Biolubricant using Pin-on-Disc Tribometer
64	274	Salmiah Kasolang and Mohamad Ali Ahmad <i>Universiti Teknologi MARA</i>	Water Contact Angle on Lotus Leaves and Pistia Stratiotes Leaves

65	270	Mirwansah Mohamad, Khairul Imran Sainan, Zulkifli Mohamed, Saiful Bahari Saari and Muhd Faiz Mat <i>Universiti Teknologi MARA</i>	Athletes Tracking Using Homography Method: A Preliminary Study
66	283	Muhamad Azhan Anuar, Ahmad Azlan Mat Isa, Zamri Abdul Rahman and Rune Brincker <i>Universiti Teknologi MARA</i>	Critical Experimental Issues of Cracked Aluminum Beam in Operational Modal Analysis
67	291	Solehuddin Shuib, Muhammad Zubair Abd Rehim, Muhad Rozi Mat Nawi and Amran Ahmed Shokri <i>Universiti Teknologi MARA</i>	Performance Study of Polyethylene Tibial Insert in Total Knee Replacement During Deep Knee Flexion
68	275	Muhamad Azhan Anuar, Nor Syafirah Binti Abdul Samat and Ahmad Azlan Mat Isa <i>Universiti Teknologi MARA</i>	Experimental Analysis to Evaluate the Effect of Dynamic Absorber
69	242	Nur Asiah Kuzaiman, Argustina Zainuddin, Noor Azlina Mohd Salleh and Salmiah Kasolang. <i>Universiti Teknologi MARA</i>	Green Lean Tqm Islamic Supplier/Organization/Customer Management Practices In Malaysian Food Companies
70	200	Norrul Hafizan Ab Wahab and Nor Hayati Saad. <i>Universiti Teknologi MARA</i>	Plaster Mould Selection for Ceramic Slip Rotary Moulding System (CSRM)
71	249	Wirachman Wisnoe, Rizal E. M. Nasir, Wan Aizad Musyamel Saarani, Nornashiha Mohd Saad and Mohd Amirul Afiq Mamud. <i>Universiti Teknologi MARA</i>	Wind Tunnel Tests of UiTM Blended Wing Body - Unmanned Aerial Vehicle (BWB-UAV) Prototype