



TECHICAL PROGRAMME

Revised (031121)

8th Brunei International Conference on
Engineering and Technology 2021

www.utb.edu.bn/BICET2021/index.html

8-10 November 2021



Virtual Meeting Details



Simpur Room



Rafflesia Room



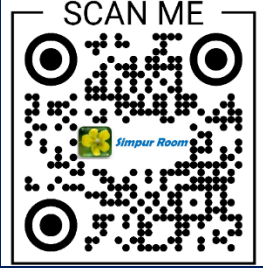




Telang Room



Bougainvillea Room



Vanda Orchid Room

		Zoom link	https://bit.ly/2Z91cdc	https://bit.ly/3G3f8pL	https://bit.ly/3vEcCSO	https://bit.ly/3aXWgde	https://bit.ly/3jmfzSc
		QR Code					
		Meeting ID Passcode	673 673 7006 6737006	673 673 2635 6732675	673 000 6618 6736618	873 460 9054 6739054	673 000 5599 6735599
Day 1	9:00 - 12:00	Opening Ceremony Keynote #1 Keynote #2					
	13:20 - 17:20		Session 1A	Session 1B	Session 1C	Session 1D	
Day 2	9:00 - 12:20	Keynote #3					
	13:20 - 17:20		Session 3A	Session 3B	Session 3C	Session 3D	
Day 3	9:00 - 12:20		Session 4A	Session 4B	Session 4C	Session 4D	
	13:20 - 17:20	Keynote #4					
		Closing Ceremony					

Technical Programme

8th November 2021



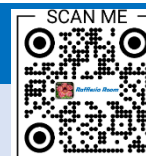
Session 1A



Rafflesia Room



<https://bit.ly/3G3f8pL>



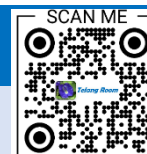
Session Chair: Prof. Ir. Dr. Faris Tarlochan (Qatar University)

Dr. Mohammad Iqbal (Universitas Syiah Kuala, Banda Aceh, Indonesia)

Dr. Naseem Uddin (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 8th November 2021

13:20	Influence of welding parameters on microstructures and hardness of dissimilar weld joints between 316 and HSLA steel (BICET_1) <i>Misbahu Hayatu and E.T. Dauda</i>
13:40	Design of Active Winglet for Better Control Over Drag and Lift Coefficients for Commercial Aircrafts (BICET_5) <i>Mohamed Elkhair Arif Elhag and Naseem Uddin</i>
14:00	Characterization of Drilling with Minimum Quantity Lubrication (BICET_15) <i>Angelyana Geruna, Mohammad Ali, Seri Rahayu Yaakub, Asri Mohammad, Abdur-Rasheed Alao, Muataz Al Hazza and Erry Adesta</i>
14:20	Minimum Quantity Lubrication for an Eco-efficient Turning (BICET_16) <i>Wafy Amli, Mohammad Ali, Abdul Md Mazid, Seri Rahayu Yaakub, S. Ramesh, Zunaidi Ibrahim and Azlina Diyanah Hamid</i>
14:40	Investigation of the turning parameters on the surface finish of an aluminum bar (BICET_20) <i>Mohd Alai Arziul Abdullah, Md Asri Muhammad, Zunaidi Ibrahim, Mohammad Yeakub Ali and Judha Purbolaksono</i>
15:00 – 15:20 COFFEE BREAK	
15:20	Design and Engineering Analysis of a Coconut Peeler Machine (BICET_25) <i>Awangku Yura Alif Yusofe, H.C. Alexander Chee, S. Ramesh, Mohammad Yeakub Ali and Zunaidi Ibrahim</i>
15:40	Statistical Analysis of The Effect of The Cutting Speed and Feed Rate on Chip Thickness in High-Speed End Milling for Hardened Steel D2 (BICET_31) <i>Muataz Hazza F. Al Hazza, Nor Amalina Binti Endut, Mohammad Yeakub Ali and Erry Y. T. Adesta</i>
16:00	Chip Morphology Analysis in High-Speed End Milling for D2 Hardened Steel (BICET_32) <i>Muataz Hazza F. Al Hazza, Muataz Hazza F. Al Hazza, Nor Amalina Binti Endut, Mohammad Yeakub Ali and Erry Y. T. Adesta</i>
16:20	Characteristics of Laser Welded Brazed AZ31/Ti-6Al-4V Dissimilar Joints (BICET_34) <i>S.T. Auwal, S. Ramesh, Auwal Ibrahim, B.I. Kunya, N. Mu'az, M.S. Dambatta, Abubakar Shehu Ahmad and Caiwang Tan</i>
16:40	Lap-shear Performance of Aluminum Alloy 5754 and 420 Martensitic Stainless Steel Resistance Spot Weld (BICET_46) <i>S.M. Manladan, S. Ramesh and Z. Luo</i>
17:00	Pre-Treatments Effect on Pepper Drying Time and Microstructure (BICET_49) <i>Ana Sakura Zainal Abidin, Melissa Michelle Rolland, Sinin Hamdan, Rasli Muslimen, Shirley J. Tanjong, Raudhah Ahmadi, Shahrol Mohamaddan and Annisa Jamali</i>
17:20	END OF SESSION

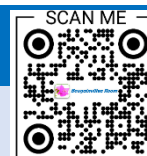

<https://bit.ly/3vEcCS0>


Session Chair: Prof. Abdullah Al-Maun (International Islamic University, Malaysia)

Dr. Hj Mohd Khairul Ja'afar Hj Masri (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 8th November 2021

13:20	The Comparison of Bias Correction Methods in Statistical Downscaling of Precipitation in Brunei Darussalam (BICET_6) <i>Dk Nur Ilyah Fathiyah Pg Ahmad Sufri, Uditha Ratnayake, Hj Asari Hj Abd. Rashid and Hjh Ena Kartina Hj Abd Rahman</i>
13:40	Optimisation of Organic Matter Removal from Landfill Leachate Using Ferrous (II)/ Persulfate (PS) System (BICET_99) <i>Nabilah Samsul, Mohamed Hasnain Isa, Shahriar Shams, Rozeana Hj Md. Juani and Mohammed Saedi Jami</i>
14:00	Status of E-waste Management in Brunei Darussalam (BICET_114) <i>Rusyidina Idris, Shahriar Shams and Ismawi Yusof</i>
14:20	Characteristics of Municipal Solid Waste Leachate Under Hydrothermal Treatment (BICET_118) <i>Siti Salwa Khamis, Hadi Purwanto and Hamzah Mohd Salleh</i>
14:40	Soft Computing Techniques for Prediction of Forest Fire Occurrence in Brunei Darussalam (BICET_133) <i>Muhammad Iskandar Hanafi Bin Pengiran Haji Zahari, Rama Rao Karri, Mohamed Hasnain Isa, El-Said Mamdouh Mahmoud Zahran and S.M. Shiva Nagendra</i>
15:00 – 15:20 COFFEE BREAK	
15:20	Waste COVID-19 Facemasks as an Auxiliary Iron Reductant in the Rotary Hearth Furnace (BICET_144) <i>Daniel J. C. Stewart, John Lewis, David Thomson and Andrew R. Barron</i>
15:40	Spatial Distribution of Rainfall Variability and Its Trends in the Coastal Zones of Bangladesh (BICET_52) <i>Md. Rezaul Karim, Nusrat Jahan and Shahriar Iqbal</i>
16:00	The Impact of Palm Sugar Replacement On Physicochemical Characteristics of Syzygium Malaccense Jam Processing (BICET_185) <i>Zumirra Affno, Aida Maryam Basri and Beston Faiek Nore</i>
16:20	Development of Brunei Regional Hydrodynamic Model for Modelling of Brunei Coastal Waters using Delft3D (BICET_190) <i>Rama Rao Karri, Dk Nur Siti Fatimah, Shahriar Shams, Ena Kartina Abdul Rahman, Hj Asari Bin Hj Abdul Rashid and Uditha Ratnayake</i>
16:40	Turbulent flow and micro-particle collection in the Bifurcation of human lungs (BICET_193) <i>Nurul Hasan, Nawaf Saeid, Roslyna Rosli and Md Mizanur Rahman</i>
17:00	Geotechnical Properties of Compost-Wastewater Sludge-Clay Biocover for Tropical Landfills (BICET_122) <i>Suaidah Rahim, Mohamed Hasnain Isa, Shahriar Shams and Muneerah Jeludin</i>
17:20	END OF SESSION

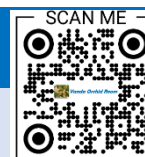

<https://bit.ly/3aXWgde>


Session Chair: Dr. Shah Newaz (UTB)

Dr. Wida Susanty binti Haji Suhaili (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 8th November 2021

13:20	A Comparative Study of Multi-Objective Functions in MOEA/D and Their Effects on Fuzzy Clustering (BICET_39) <i>Afiqah Basheer and Daphne Teck Ching Lai</i>
13:40	Speech Dataset of Kadazan Digits for Keyword Spotting (BICET_12) <i>Mohammad Ali Humayun, Hayati Yassin and Pg Emeroylariffion Abas</i>
14:00	A Low Complexity Convolutional Neural Network for Feature Extraction of Satellite Images Used in Path Loss Prediction (BICET_7) <i>Usman Sammani Sani, Daphne Teck Ching Lai and Owais Ahmed Malik</i>
14:20	Crowd Management: Simulation Modelling and Visualization Via Fuzzy Agents (BICET_104) <i>Ibrahim Venkat, Muhamad Naim Zali, Azhar Mohd Ibrahim, Saiful Omar and Bahari Belaton</i>
14:40	Mechatronic Design of a Myoelectric and Mechanomyographic Prosthesis with Intelligent Control for the Control of the Grip Function in People with Wrist Disarticulation and Transradial Amputation (BICET_86) <i>Diana Sofia Milagros Rosales Gurmendi and Ruth Aracelis Manzanares Grados</i>
15:00 – 15:20 COFFEE BREAK	
15:20	Advanced RF/Microwave Filter Design using Microwave Circuit Simulators (BICET_124) <i>Kenneth Yeo</i>
15:40	Study of Macroplastic Transport and Fate in Urban River System (BICET_97) <i>Nur Syadza Elyana Abdullah Kok, Sharina Yunus, Swee Peng Ang, Khairuddin Hj Abd Ghafar and Pg Muhammad Nazri Pg Hj Ahmad</i>
16:00	Investigation of Edge Detection Techniques On Coronary Angiography Images (BICET_91) <i>Harsa Amylia Mat Sakim</i>
16:20	The Evaluation of Machine Learning Algorithms for Detecting Islamophobic Tweets (BICET_89) <i>Alice Takoh, Daphne Teck Ching Lai and Rosyzie Anna Apong</i>
16:40	Evaluation of 2D and 3D Posture for Human Activity Recognition (BICET_83) <i>Md Amran Hossen, Abdul Ghani Naim and Pg Emeroylariffion Abas</i>
17:00	Numerical Analysis of a Proposed Photonic Crystal Fiber for Sulfuric Acid Sensing (BICET_87) <i>Abdul Mu'iz Maudi, Pg Emeroylariffion Abas, Nianyu Zou and Feroza Begum</i>
17:20	END OF SESSION


<https://bit.ly/3jmfzSc>


Session Chair: Prof. Sivakumar Manickam (UTB)

Ir. Dr. Wendy Ng (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 8th November 2021

13:20	Effects of Pressure Variations in the Quality of Graphene Production through Chemical Vapor Deposition by Regression (BICET_53) <i>Nur Aqidah Haji Donglah, Nornasuha Mahmud Adenan and Maziyar Sabet</i>
13:40	The Influence of Temperature on the Quality of Graphene obtained through Chemical Vapour Deposition (BICET_55) <i>Nornasuha Mahmud Adenan, Nur Aqidah Haji Donglah and Maziyar Sabet</i>
14:00	The Addition of Graphene Nanoplatelets on the Thermal Characteristics of Polycarbonate (BICET_27) <i>Maziyar Sabet and Hassan Soleimani</i>
14:20	Graphene Oxide-Manganese Ferrite (GO-MnFe ₂ O ₄) Nanocomposite: Synthesis and Its Use for Adsorptive Removal of Cd(II) and U(VI) Ions from Aqueous Medium (BICET_163) <i>Lakshmi Prasanna Lingamdinne, Choi Jong-Soo, Ganesh Kumar Reddy Angaru, Janardhan Reddy Koduru, Yoon-Young Chang, Jae-Kyu Yang and Rama Rao Karri</i>
14:40	Design of Reformer and Water Gas Shift Reactor for Production of Hydrogen Gas via Steam Methane Reforming (BICET_14) <i>Fuad Sahari, Zaim Ramli, Hassanul Ibrahim, Farzana Yussof and Rama Rao Karri</i>
15:00 – 15:20	COFFEE BREAK
15:20	Design of Absorption Column and Pressure Swing Adsorber for Production of Hydrogen by Steam Methane Reforming Using Biogas (BICET_10) <i>Dk Farzana, Hassanul Ariffin, Izzan Fuad, Zaim Ramli and Rama Rao Karri</i>
15:40	Experimental Evaluation of Water-Based Al ₂ O ₃ and MgO Nanofluids on Selective Flat Plate Collector Thermal Efficiency (BICET_93) <i>Nur Wardhyana Yahya, Reddy Prasad and Dakshinamoorthy Sathiyamoorthy</i>
16:00	Effect of reduction method of reduced Graphene Oxide for phenol adsorption from Aqueous Solutions (BICET_161) <i>Choi Jong-Soo, Seon-hwa Lim, Lakshmi Prasanna Lingamdinne, Janardhan Reddy Koduru, Jae-Kyu Yang and Yoon-Young Chang</i>
16:20	Superhydrophilic Fabrics for Oil Remediation from Sea Water (BICET_143) <i>Sajad Kiani, Andrius Stanulis and Andrew R Barron</i>
16:40	Stability of Carboxylic Acid Modified Alumina Nanoparticles for Enhanced Oil Recovery Applications (BICET_155) <i>Wafaa Al-Shatty, Shirin Alexander and Andrew Barron</i>
17:00	Functionalization of Basic Oxygen Steelmaking Slag (BICET_153) <i>Lucy Fisher and Andrew Barron</i>
17:20	END OF SESSION

Technical Programme

9th November 2021



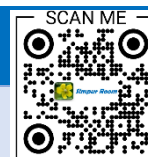
Keynote #3



Simpur Room



<https://bit.ly/2Z91cdc>



Session Chair: **Professor Ir. Dr. Mohammad Yeakub Ali (Technical Chair, BICET 2021)**

Brunei Local Time: 9:00 – 10:00 (GMT+8) • 9th November 2021

9:00 *Arrival of Participants*

9:15 *Plenary Session: Keynote Speaker #3*

Professor Dr. Safian Sharif

Chair, Frontier Materials Research Alliance, Universiti Teknologi Malaysia

10:00 – 10:20 **COFFEE BREAK**

Breakout Parallel Sessions

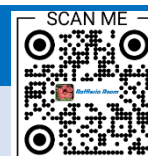
Session 2A



Rafflesia Room



<https://bit.ly/3G3f8pL>



Session Chair: **Dr. Roslyna Rosli (UTB)**

Dr. Abdur-Rasheed Alao (UTB)

Brunei Local Time: 10:20 – 12:20 (GMT+8) • 9th November 2021

10:20	Improving Microstructure Homogeneity and Reduce Grain size of Zn-3Mg Alloy through ECAP Processing (BICET_63) <i>M.S. M.S. Dambatta, S. Izman, S.T. Auwal, D. Kurniawan, S Ramesh, U. Abdullahi, H. Mas Ayu, A. Shah, Ay Gidado and Auwal Ibrahim</i>
10:40	Effect of Alumina Nanoparticles on the Material Removal Rate for Polymer Composite Materials during Milling Process (BICET_76) <i>Athraa A Ridha, Saad K Shather and Mustafa A Rajab</i>
11:00	Mechanical Properties and Corrosion Behaviour of AA5083 Joined at 45° Rolling Direction Using Friction Stir Welding (BICET_88) <i>Makopola William Matlou and Veeredhi Vasudeva Rao</i>
11:20	Microwave Sintering of CuO-doped Y-TZP Ceramics (BICET_102) <i>K.Y. Sara Lee and S. Ramesh</i>
11:40	Selection of Composite Material Based on Compromise MCDM Method (BICET_106) <i>Aamir Adeeb Abdul Rahim, S. Ramesh and S. Nurmaya Musa</i>
12:00	Fabrication and Characterization of Plastic Tiles from Plastic Wastes in Bangladesh (BICET_111) <i>Md Sanuwar Uddin, Mohammad Zoynal Abedin and Mohammad Yeakub Ali</i>

12:20 – 13:20 **LUNCH BREAK**


<https://bit.ly/3vEcCS0>


Session Chair: Dr. Tan Soon Jiann (UTB)

Dk Dr. Noor Muneerah Binti Pg Hj Jeludin (UTB)

Brunei Local Time: 10:20 – 12:20 (GMT+8) • 9th November 2021

10:20	Landslide susceptibility assessment using frequency ratio model in Jalan Kota Batu-Subok area of Brunei Darussalam (BICET_26) <i>Hamirol Aqim Salleh, Ena Kartina Abdul Rahman, Uditha Ratnayake and Md Motiar Rahman</i>
10:40	Tendency of Intra-City Bus Drivers to Use Cell Phone While Driving Using Ordered Probit Model (BICET_47) <i>Sakif Ahmed, Md. Shihab Uddin, Shahrul Ibney Feroz, Md. Ridwan Bin Alam, Farhan Ahsan Farabi, Md. Moin Uddin and Shakil Mohammad Rifaat</i>
11:00	Basic Properties of Post-Disaster Recycled Material in Palu City as Flexible Pavement Materials (BICET_48) <i>Novita Pradani, Rita Irmawaty, Muhammad Wihardi Tjaronge and Irwan Ridwan Rahim</i>
11:20	Effects of Mixing Method and Duration on Concrete Properties Exposed To Hot Weather Conditions (BICET_58) <i>Saiful Baharin Duraman</i>
11:40	Investigation of Shear Strength and Flexural Cracking Load of FRP Reinforced Members using FEA (BICET_191) <i>Md Shah Alam and Nurul Hasan</i>
12:00	Exploring the Cracking and Healing Behaviour of the Thin Asphalt Overlay (BICET_3) <i>Noor Asmael</i>
12:20 – 13:20 LUNCH BREAK	

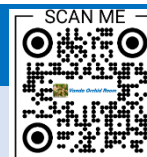

<https://bit.ly/3aXWgde>


Session Chair: Dr. Feroza Begum (Universiti Brunei Darussalam)

Dr. Dina Shona Laila (UTB)

Brunei Local Time: 10:20 – 12:20 (GMT+8) • 9th November 2021

10:20	Smart Waste Bin System Using Beacon Technology (BICET_98) <i>Muhammad Fauzan Haji Salleh, Dr Wida Susanty Haji Suhaili and Ravi Kumar Patchmuthu</i>
10:40	IoT Adoption to address water level issues for paddy plantation in IBTE Agro (BICET_100) <i>Mohamad Zuhair Arif Haji Shahrum, Dr Wida Susanty Haji Suhaili and Dr Au Thein Wan</i>
11:00	Next Generation Smart Wardrobe Management System using IoT (BICET_69) <i>Arunakranthi Godishala, R Veena, Hayati Yassin and B Rajkumar</i>
11:20	Internet of Things: Digital Footprints Carry A Device Identity (BICET_13) <i>Rajarshi Roy Chowdhury, Dr. Azam Che Idris and Dr. Pg Emeroylariffion Abas</i>
11:40	Item Recommendation Using User Feedback Data and Item Profile (BICET_68) <i>Debashish Roy, Rajarshi Roy Chowdhury, Abdullah B. Nasser, Afdhal Azmi and Marzieh Babaeian Jelodar</i>
12:00	Smart Campus Initiative: Car Entrance, Exit and Parking Management Prototype Development (BICET_169) <i>Fatini Auni Anuar Puasa and Nurazmina Lingas</i>
12:20 – 13:20 LUNCH BREAK	

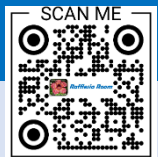

<https://bit.ly/3jmfzSc>


Session Chair: Prof. Janardhan Reddy Koduru (Kwangwoon University, South Korea)

Dr. Khairunnisa Nabilah Binti Hj Ruslan (UTB)

Brunei Local Time: 10:20 – 12:20 (GMT+8) • 9th November 2021

10:20	Enhanced Performance of Graphene-Oxide Polyethersulfone Nanocomposite Membrane Wastewater and its Fouling Mechanism (BICET_159) <i>Nik Rashida Nik Abdul Ghani, Mohammed Saedi Jami and Mohamed Hasnain Isa</i>
10:40	Preparation and Characterization of ZnO-CNF/Chitosan Hydrogel and its in vitro Antibacterial Activity (BICET_177) <i>Janarthanan Supramaniam, Irvy Ai Xia Teh, Darren Yi Sern Low, Bey Fen Leo, Loh Teng Hern Tan, Bey Hing Goh, Sivakumar Manickam and Siah Ying Tang</i>
11:00	Study on Release Characteristics of Matrix-based Zinc Sulphate Controlled Release Fertilizers (BICET_119) <i>Dr. Vijaya Lakshmi Marlapalli, Rajendra Prasad, Sridevi V and Rama Rao Karri</i>
11:20	Studies on the enlargement of biodegradability index of potato industry wastewater using electrochemical method (BICET_73) <i>Thirugnanasambandham Karchiyappan and Rama Rao Karri</i>
11:40	Opportunities in Building Process Safety (PS) Competency in Brunei Darussalam (BICET_107) <i>Aisah Timbang, Mohammad Hazwan Azri, Reddy Prasad D M and Salwa Sofri</i>
12:00	Mechanical Behaviour of Y-TZP Consolidated at Various Temperatures (BICET_24) <i>Siti Rahmah Kamis, K.Y. Sara Lee and S. Ramesh</i>
12:20 – 13:20 LUNCH BREAK	

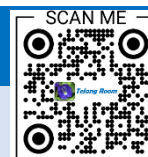

<https://bit.ly/3G3f8pL>


Session Chair: Dr. Annisa Jamali (Universiti Malaysia Sarawak)

Assoc. Prof. Dr. Mohammad Ali Basunia (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 9th November 2021

13:20	An Optimal Economic Xbar & EWMA Scheme for Monitoring Process Mean (BICET_9) <i>Mohammad Shamsuzzaman, Salah Haridy, Hamdi Bashir and Ahmed Maged</i>
13:40	Kinematic and Dynamic Model Analysis for An Improved Design of Home-Based Wearable Lower Limb Rehabilitation Robot (BICET_4) <i>Muhammad Naim Leman, Annisa Jamali, Shahrol Mohamaddan, Helmy Hazmi and Mohd Syahmi Jamaluddin</i>
14:00	Metallurgical and Shear Strength of Brazed Bulk Pure Copper by Microwave Hybrid Heating (BICET_165) <i>Maisarah Lutfi, F. Yusuf, S. Ramesh and T. Ariga</i>
14:20	Design and Simulation of Low-Cost Lower Limb Exoskeleton for Rehabilitation Exercise (BICET_28) <i>Nilam Abdullah, Zunaidi Ibrahim, S. Ramesh, Md Asri Muhammad, Seri Rahayu Ya'Akub and Malai Zeiti Binti Sheikh Abdul Hamid</i>
14:40	Design and Fabrication of an Autonomous Smart Golf Caddie (BICET_30) <i>Amir Asyraf Bin Aziz, Zunaidi Ibrahim, Md Asri Muhammad, S. Ramesh, Dk Seri Rahayu Pg Ya'Akub and Mohammad Ali</i>
15:00 – 15:20	COFFEE BREAK
15:20	Composite Laminate Pipe Subjected to Internal and External Pressure Loading for Oil and Gas Applications (BICET_66) <i>Za'im Aqwa Mohaimin and Yulfian Aminanda</i>
15:40	Road Crashed Barrier Using Rectangular Honeycomb as Absorber Structure (BICET_67) <i>Muhammad Asyraf Pengiran Haji Mat Rais and Yulfian Aminanda</i>
16:00	Performance of Mengkuang-Glass/Epoxy Double Lap Bolted Joint Subjected to Tensile Loading (BICET_109) <i>Asad Khalid and Syukri Harith</i>
16:20	Stress Intensity Factors of Multi Semi-elliptical Surface Cracks at the External Surface of a Pipe under Internal Pressure (BICET_116) <i>Fahrizan Rasyad, S. Ramesh, Md Asri Mohammad, Muhammad Akbar Barrinaya, Khusnun Widiyati, Sri Hastuty and Judha Purbolaksono</i>
16:40	Dynamic Mechanical Thermal Analysis of PTFE Based Composites (BICET_123) <i>Musa Alhaji Ibrahim, Shamsu Auwal Tukur and S. Ramesh</i>
17:00	Bending Response of Cotton, Coir and Glass/Epoxy Tubes (BICET_110) <i>Asad Khalid and Ak Md Nur Adi Syafi Rafiuddin Pg Eliza</i>
17:20	END OF SESSION

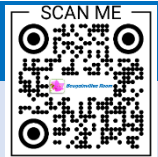

<https://bit.ly/3vEcCS0>


Session Chair: Prof. Rezaul Karim (Islamic University of Technology, Bangladesh)

Pg Dr. Saiful Baharin Pg Duraman (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 9th November 2021

13:20	Assessment of Hydrological Response of Pahang River Basin (BICET_147) <i>Nur Wajihah Abd Hakim, Md Noor Salleh and Abdullah Al Mamun</i>
13:40	Application of Normalized Difference Vegetation Index in Agriculture to Estimate Rice Yield (BICET_128) <i>Hamizah Rhymee, Uditha Ratnayake, Ena Kartina Abdul Rahman and Shariar Shams</i>
14:00	Architectural Transformation in the Context of Adaptable Housing and Its Current Potential in Islamic Perspective (BICET_50) <i>Zulkefle Ismail and Fahmi Ibrahim</i>
14:20	Future Perspective of House Hold Waste Management in Brunei; a comparison with Successful Swedish System (BICET_160) <i>Dk Amirah Najibah Aliuddin, Md Sumon Reza, Abdalla and Abul Azad</i>
14:40	Findings on Student Mobility Challenges and Suggestions for a Sustainable Campus Strategy from Student Participation (BICET_54) <i>Nurin Batrisyia Suhaili and Zulkefle Ismail</i>
15:00 – 15:20 COFFEE BREAK	
15:20	Renewable Energy: A Brief Review (BICET_152) <i>Jie Chie Yong and Md Motiar Rahman</i>
15:40	Investigating Prevention through Design (PtD) Concept for Safety in Malaysian Construction Industry (BICET_136) <i>Md Aslam Hossain, Muhammad Raihan Hafizh and Abid Nadeem</i>
16:00	Technology Adoption Model for Greening Existing Buildings: A Conceptualization (BICET_140) <i>Nurnazerah Haji Julayhe and Md Motiar Rahman</i>
16:20	Adopting Passive Design Strategies: A Brief Review (BICET_29) <i>Nor Aqilah Haji Juffle and Md Motiar Rahman</i>
16:40	Hydrochemical Characteristics of Groundwater and its Suitability for Drinking and Irrigation Uses in Makutupora Sub-basin Tanzania (BICET_82) <i>Ibrahimu Chikira Mjemah and Eliapenda Elisante Mariki</i>
17:00	Industry 4.0 in Construction: A Conceptual Framework (BICET_43) <i>Nurul Syazwana Mohammad Suferi and Md Motiar Rahman</i>
17:20	END OF SESSION

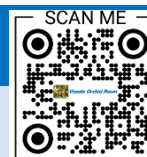

<https://bit.ly/3aXWgde>


Session Chair: Dr. Daphne Teck Ching Lai (Universiti Brunei Darussalam)

Dr. Sharina Yunus (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 9th November 2021

13:20	Thermoelectric cooling for Solar PV (BICET_38) <i>Hadi Mohaimin, Kenneth Yeo and Rafidah Petra</i>
13:40	Sinusoidal Pulse Width Modulation (SPWM) on Cascaded H-Bridge (CHB) Converter Harmonic Analysis (BICET_146) <i>Saifulbahri Hj Md Jaafar and Dina Shona Laila</i>
14:00	A Comparative Analysis of Optimisation Techniques for Voltage Collapse Point (BICET_37) <i>Haziq Ibrahim, Ang Swee Peng, Norfauzi Dani, Ashraf Khalil, William Voon and Hazlie Mokhlis</i>
14:20	Design of Medium Frequency transformer for Dual Active Bridge DC/DC Converter (BICET_65) <i>M.I. Rahman</i>
14:40	Thermoelectric temperature difference with PWM controller (BICET_72) <i>Hadi Mohaimin, Kenneth Yeo and Rafidah Petra</i>
15:00 – 15:20 COFFEE BREAK	
15:20	An Experimental Study of The Rooftop Rainwater Energy Harvester to Generate Electricity (BICET_95) <i>Muhammad Akram Mohd Idros, Zuraini Dahari and Nor Asiah Muhamad</i>
15:40	Micro/nano-structuring Assisted Efficiency Improvement of Organic Light Emitting Diodes (BICET_170) <i>Biswajit Sana, Apurba Adhikary, Md. Shamim Ahsan and S H Shah Newaz</i>
16:00	IoT-Based Meter Reading for Domestic Power Consumption Billing (BICET_75) <i>Nor Asiah Muhamad, Lai Kum Tan, Swee Peng Ang and Saiful Bahri Md Ja'afar</i>
16:20	Effects of Incorporating Tutor Robot and Game-Based Learning for Teaching Mathematics to Primary School Students (BICET_162) <i>Siti Nazirah Haji Awang Damit and Sharina Yunus</i>
16:40	Periodic Library: Software Aid for Grade Ten Students with Visual Impairment (BICET_19) <i>Carlo H. Godoy Jr, Karl Jezrel D. Anglo, Angela Nicole C. Barbon and Dr. Apollo P. Portez</i>
17:00	Internet of Things (IoT) Based Air Quality Monitoring System with Audio Feedback System (BICET_127) <i>Peh Yong Ching, Zuraini Dahari and Nor Asiah Muhamad</i>
17:20	END OF SESSION


<https://bit.ly/3jmfzSc>


Session Chair: Prof. Andrew R Barron (Energy Safety Research Institute, United Kingdom)

Dr. Bashir Suleiman (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 9th November 2021

13:20	Effects of Root Developments and Vegetation Cover on Soil Water Infiltration (BICET_103) <i>Nur Sabrina Matali, Ena Kartina Abdul Rahman and Uditha Ratnayake</i>
13:40	Environmental Impact of Construction Waste (BICET_113) <i>Md Motiar Rahman and Fatin Shahrin Nizam</i>
14:00	Compressive and Flexural Strength of Coal Bottom Ash Lightweight Concrete (BICET_132) <i>Thevaneyan Krishta David, Renga Rao Krishnamoorthy, Sivaraos and S. Ramesh</i>
14:20	3D-Non-immersive VR Game for Process Safety Education (BICET_108) <i>Salwa Sofri, Mohammad Hazwan Azri, Reddy Prasad D M and Aisah Timbang</i>
14:40	Fabrication of Nanoparticle Carbonated Hydroxyapatite by Phase Transformation of Calcium Carbonate Prepared by Sol-Gel Hydrothermal Method (BICET_125) <i>L.T. Bang, Hoang Quoc Khai, S. Ramesh and Bui Duc Long</i>
15:00 – 15:20 COFFEE BREAK	
15:20	Facies Prediction using Grain Size Analysis of Bruneian Sandstone Outcrops (BICET_57) <i>Nadiyah Aqilah Haji Sufrian, Morteza Jami and Stephen Tyson</i>
15:40	Reservoir Characterization Using Petrophysical and Hydrocarbon Flow Parameters of the Deep Water Tariki Sandstone Member of the Otaraoa Formation, Taranaki Basin, New Zealand (BICET_71) <i>Surya Tejasvi Thota, Md Aminul Islam, Mohamed Ragab Shalaby, Nur Amirah Nihayatul Nabilah Alfian and Kamalia Norjannah Kamalulzaman</i>
16:00	Multivariate analysis to evaluate the factors associated with oil production in Peru (BICET_45) <i>Rodrigo Alonso Castillo Ramos and Joseph Sinchitullo</i>
16:20	Tribological Behaviour of Aluminium-Copper-Cullet Metal Composite (BICET_201) <i>Awwal Hussain Nuhu, Suzi Salwah Jikan, Saliza Asman, Nur Azam Badarulzaman and Abdullahi Tijjani</i>
16:40	Effect of Surface Properties on Carbon Dioxide (CO ₂) Adsorption on Sandstone (BICET_189) <i>Octaviana Antonia Feliz Soares de Jesus, Kiat Moon Lee, Sami Abdelrahman Musa and Joel Ben-Awuah</i>
17:00	COD Removal from Sanitary Landfill Leachate through Chemical Oxidation (BICET_198) <i>Suaibou Adamu, Mohamed Hasnain Isa, Rozeana Binti Hj Md. Juani, Asmaal Muizz Sallehhin Bin Hj Mohammad Sultan and Zuliana Binti Hj Nayan</i>
17:20	END OF SESSION

Technical Programme

10th November 2021



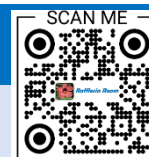
Session 4A



Rafflesia Room



<https://bit.ly/3G3f8pL>

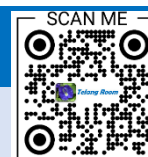


Session Chair: **Prof. Yulfian Aminanda (UTB)**

Dr. Asad A Khalid Al Abdullah (UTB)

Brunei Local Time: 9:00 – 12:20 (GMT+8) • 10th November 2021

9:00	Optimization of A Reliable Grid- Connected PV-Based Power Plant (BICET_203) <i>M.M Rashid and Mohammad Yeakub Ali</i>
9:20	A Study on the Models and Techniques Used in E-Business for Small-Medium Enterprises (BICET_157) <i>Hasyimah Isa, Mohammad Erwindie Abdul Rahim, Nur Aizzah Nurul Rashidah Mohammad Ariffin, Ratne Azera Embran, Syazana Han Mohammad Ridzuan Han, Ulaganathan Subramanian and Norazillah Abdullah</i>
9:40	Service Robot using Voice Recognition (BICET_205) <i>M.M Rashid and Mohammad Yeakub Ali</i>
10:00 – 10:20 COFFEE BREAK	
10:20	Characterization and Corrosion Behavior of Heat Treated Electrodeposited Cobalt Alloy Coating (BICET_168) <i>M.R.M. Haizad, N.M. Nik Rozlin, C.M. Mardziah and S. Ramesh</i>
10:40	Study on the Lateral Torsional Buckling of Composite Thin-Walled Beam (BICET_174) <i>Nur Diana Zainal Abedin, Jaffar Syed Mohamed Ali, Abdul Aabid and Yulfian Aminanda</i>
11:00	Carbon Footprint and Climate Change: Perspective of Brunei Darussalam (BICET_17) <i>Nur Qayyimah, Mohammad Ali, Erry Adesta, Muataz Al Hazza, S. Ramesh and Zunaidi Ibrahim</i>
11:20	Development of NiAl ₂ O ₄ Spinel Structure as an Electrode Material for Solid Oxide Fuel Cells (BICET_164) <i>Abdalla, Shammya Afroze, Mahendra Somalu and Abul Azad</i>
11:40	Enhanced Water Cycle Algorithm Using Hookes and Jeeves Method for Clustering Large Gas Data (BICET_186) <i>Hasnanizan Taib and Ardeshir Bahreininejad</i>
12:00	A Light-Weight Low-Speed Stirrer for Proper Mixing of Fertilizer and Water in a Small Scale Automated Irrigation System (BICET_137) <i>Mohammad Ali Basunia</i>
12:20 – 13:20 LUNCH BREAK	


<https://bit.ly/3vEcCS0>


Session Chair: Dr. Md Motiar Rahman (UTB)

Dr. Uditha Ratnayake (UTB)

Brunei Local Time: 9:00 – 12:20 (GMT+8) • 10th November 2021

9:00	An Investigation into the Relationship Between Strength Properties of Sandstone Aggregate Stabilised with Cement and Polymer Emulsion for Road Sub-Base Applications (BICET_70) <i>Tan Eng Hie, Tan Soon Jiann and Elsaid M Zahran</i>
9:20	Backflow Characteristics at Palu Estuary as the Impact of Bed Subsidence After the 2018 Earthquake and Tsunami (BICET_11) <i>I Gede Tunas, Muh. Galib Ishak, Rudi Herman, Setiyawan and Yassir Arafat</i>
9:40	Chemical Stabilisation of Sandstone Road Aggregate Layers: A Literature Review (BICET_85) <i>Nurul Amalina Ashikin Ali, El-Said Mamdouh Mahmoud Zahran, Soon Jiann Tan and Nurul Hasan</i>
10:00 – 10:20 COFFEE BREAK	
10:20	Performance Validation of Low-Cost Building Insulation Materials via the Thermal Characteristics and Costs of Insulation Materials (BICET_154) <i>Paul O. Awoyera, Nonso G. Enemchukwu, Rama Rao Karri and Shahriar Shams</i>
10:40	Using Water in a Sustainable Manner through Conservation at Households in Brunei (BICET_195) <i>Saiful Islam</i>
11:00	Survey on Properties of Coconut Timber, Shell and Coir and their Applications in Producing Construction Materials (BICET_175) <i>Akshaya S, Susmitha V S, Soundaryalakshmi S and Aisha Farhin K</i>
11:20	COD Removal from Sanitary Landfill Leachate through Chemical Oxidation (BICET_198) <i>Suaibou Adamu, Mohamed Hasnain Isa, Rozeana Binti Hj Md. Juani, Asmaal Muizz Sallehhin Bin Hj Mohammad Sultan and Zuliana Binti Hj Nayan</i>
11:40	Design and Fabrication of a Low-Cost Upper Limb Rehabilitation Device for Post-Stroke Patients (BICET_33) <i>Justin Ong Yi Kiat, Zunaidi Ibrahim, Md Asri Muhammad, Dk Seri Rahayu Pg Ya'Akub, Mohammad Ali and Dr Malai Zeiti Sheikh Abdul Hamid</i>
12:00	An Automatic Photometric Augmentation Technique to Recognize Faces with Single Sample Per Person (BICET_78) <i>Muhammad Tariq Siddique, Ibrahim Venkat, Asem Kasem and Sharul Tazrajiman</i>
12:20 – 13:20 LUNCH BREAK	

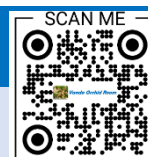

<https://bit.ly/3aXWgde>


Session Chair: **Dr. Kenneth Yeo (UTB)**

Dr. Ang Swee Peng (UTB)

Brunei Local Time: 9:00 – 12:20 (GMT+8) • 10th November 2021

9:00	Smart Farming System for A Living Pharmacy: Exploring Brunei Medicinal Flora (BICET_81) <i>Abdul Qawiy Abdul Razak, Dina Shona Laila, Swee Peng Ang and Seno Adi Putra</i>
9:20	Connectivity Conceptual Modelling for Plant Agriculture Artificial Intelligence Information Systems (BICET_94) <i>Vladimir Kalichkin, Roman Koryakin and Kirill Maksimovich</i>
9:40	Determining Paddy Crop Health from Aerial Image using Machine Learning Approach: A Brunei Darussalam Based Study (BICET_172) <i>Muhammad Afiq Amirul Elfri, Fatin Hamadah Rahman, S H Shah Newaz, Wida Susanty Suhaili and Thien-Wan Au</i>
10:00 – 10:20 COFFEE BREAK	
10:20	LoRa-based Remote Sensing of Peatland in Brunei Darussalam (BICET_173) <i>Mohamad Hafiz Bin Awang Jumat, Wida Susanty Suhaili, S H Shah Newaz and Nazmus Shaker Nafi</i>
10:40	Closed Loop Bidirectional Rotation and Speed Controls for Three-Phase Induction Motor (BICET_194) <i>Kah Haw Law</i>
11:00	Machine Learning Method in Detecting a Distributed of Service (DDoS): A Systematic Literature Review (BICET_180) <i>Muhammad Rusyaidi Zunaidi, Sardar Jaf and Zunaidi Ibrahim</i>
11:20	3D Printed Large-Scale Insole and Its Challenges (BICET_126) <i>Md Hazrat Ali and Sanjar Trubayev</i>
11:40	Solar Domestic Water Heater – Solar Thermal Energy Utilization (BICET_92) <i>Vanessa Deba Duwat and Dr Mohammad Nurul Islam</i>
12:00	Impact of Parallel High Voltage Transformers With and Without Earthing Transformer (BICET_84) <i>S.N. Syed Nasir, J.J. Jamian and R. Ayop</i>
12:20 – 13:20 LUNCH BREAK	

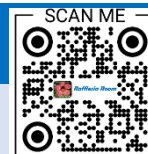

<https://bit.ly/3jmfzSc>


Session Chair: **Dr. Mohammad Nurul Islam (UTB)**

Dr. Abdur-Rasheed Alao (UTB)

Brunei Local Time: 9:00 – 12:20 (GMT+8) • 10th November 2021

9:00	Performance Evaluation of Car Radiator Using Nano Fluids (BICET_41) <i>Abubakar Shehu Ahmad, S. Ramesh, Bala Abdullahi, S. T. Auwal and Nura Jibrin</i>
9:20	Experimental assessment of performance and emission characteristics of a diesel engine fueled with hybrid biodiesel and its blends with ethanol (BICET_42) <i>Shumani Ramuhaheli, Veeredhi Vasudevarao and Christopher Enweremadu</i>
9:40	Product Distribution in Fluidized Bed Co-pyrolysis of Sawdust and Rice Husk (BICET_56) <i>Amal Fadhilah, Mohammad Islam and Roslyna Rosli</i>
10:00 – 10:20 COFFEE BREAK	
10:20	Synthesis and Sintering Studies of Hydroxyapatite Derived from Biogenic Waste Materials (BICET_120) <i>W.A. Chapa Pamodani Wanniarachchi, V. Janani, U. Sutharsini, M. Thanihachelvan, S. Ramesh and C.K. Ng</i>
10:40	The Influence of pH on the Morphology of Hydroxyapatite Particles Synthesised by Microwave Heating (BICET_134) <i>K.W. Goh and S. Ramesh</i>
11:00	Effect of Pectin Integration in Biowaste Chicken Bones to Produce Hydroxyapatite (BICET_135) <i>C.K. Ng, K.Y. Sara Lee and S. Ramesh</i>
11:20	Experimental and Analyzing the Effect of Machining Parameters to the Surface Roughness of Aluminium (BICET_181) <i>Mohammad Razi Asyzowan, Zunaidi Ibrahim, Md Asri Muhammad and Dk Seri Rahayu Pg Ya'Akub</i>
11:40	The effect of Fiber Content and Fiber Orientation on Bending Strength of Abaca Fiber Reinforce Polymer Composite Fabricated by Press Method (BICET_176) <i>Mohamad Iqbal, Yulfian Aminanda, Arya Rudi Nasution, Teuku Firsya, Nazaruddin, Indera Sakti Nasution, Dadang Furqon Erawan and Dodi Andrian Saputra</i>
12:00	An Adaptive Upper-limb Stroke Rehabilitation System (BICET_202) <i>M.M Rashid and Mohammad Yeakub Ali</i>
12:20 – 13:20 LUNCH BREAK	


<https://bit.ly/3G3f8pL>


Session Chair: **Professor Dr. Ardeshir Bahreininejad (UTB)**

Dr. Naseem Uddin (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 10th November 2021

13:20	Tides in Brunei Darussalam / Tidal Harmonics in Brunei Coastal Water (BICET_148) <i>Ahmad Farid Dato Hj Ali, Roslyna Rosli and Mohammad Ali Basunia</i>
13:40	Rooted Guardrail Post Design-An Improvement Towards Reducing Run-Off-Road Catastrophic Accidents (BICET_139) <i>Sivaraos, K.P. Prasath, S. Ramesh, K. Kadirgama, M.S. Salleh, M.A.A. Ali, S. Maidin and Thevaneyan Krishta David</i>
14:00	A Non-Traditional Approach to Service-Learning in Engineering Education (BICET_142) <i>Douglas Tong Kum Tien, Siva Kumar Sivanesan and S. Ramesh</i>
14:20	Harvesting of Rainwater for Agriculture in Brunei Darussalam: Water Evaporation (BICET_105) <i>Muaz Marsidi, Mohammad Ali, Shahriar Shams, Azlina Diyanah Hamid, S. Ramesh and Dk Seri Rahayu Pg Yaakub</i>
14:40	Engineering Research: The Perspective Towards A Sound Conduct (BICET_131) <i>Thevaneyan Krishta David, Sivaraos and S. Ramesh</i>

15:00 – 15:20 COFFEE BREAK

15:20

Plenary Session: Keynote Speaker #4

Professor Dr. Jihong Wang

School of Engineering

University of Warwick, United Kingdom

Session Chair: Professor Ir. Dr. Syuhaimi bin Ab Rahman (Universiti Kebangsaan Malaysia)



Simpur Room

Session 5A
Continue



Rafflesia Room

16:00

The Role of Disruptive Technologies on Accounting (**BICET_158**)

Mayamin Adibah Muhd Masa Masdi, Siti Wardah Hadanan, Nur Syahmina Afiqah Zamain, Aziz Hanafi Hasnan, Muhd Hazim Syakiran Julaihi, Bazilah Nuni Qurratu'aini Zahidah Sani, Fadzliwati Mohiddin, Ulaganathan Subramanian and Norazillah Abdullah

16:20

A Review on the Autonomous Technology in ASEAN NCAP (**BICET_166**)

Mohd Danial Amrun, Tengku Nordayana Akma Tuan Kamaruddin, Nurulakmar Abu Husain, Yulfian Aminanda, Mior Azman Meor Said, Azanizawati Ma'Arum, Noor Irza Mohd Zaki and Mohd Khairi Abu Husain

16:40

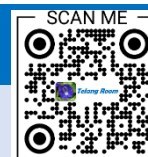
Design of Floation Water Gate for Paddy Field Irrigation (**BICET_171**)

Muhamad Naqiuddin Awang Rambli, Pg Dr Seri Rahayu Pg Ya'akub, Dr Denni Kurniawan, Dr Wida Susanty Haji Suhaili, Muhamdilah Morni, Pg Dr Rafidah Pg Hj Petra and Hj Ismit Hj Mohamad

17:00 – 17:20 CLOSING CEREMONY



Simpur Room


<https://bit.ly/3vEcCSO>


Session Chair: Prof. Ir. Dr. Sivarao Subramonian (Universiti Teknikal Malaysia Melaka)
Dr. Nurul Hasan (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 10th November 2021

13:20	Digital Twin in Manufacturing by Using Programmable Logic Controller (PLC) (BICET_130) <i>Alexander Chee Hon Cheong, S. Ramesh, Fu Jie Kok and Jerome Ignatius Yuen Yi Xian</i>
13:40	Analytical Machinability Characterization of Zirconia Materials by Indentation Techniques (BICET_112) <i>Nur Imanina Shamsul Bahren, Ng Jia Ying, Mohd Ammar Akmal Aliuddin and Abdur-Rasheed Alao</i>
14:00	Sintering Behaviour of Alumina Doped With Small Amounts of Manganese and Titania (BICET_115) <i>C. Gnanasagaran, S. Ramesh and U. Sutharsini</i>
14:20	Mechanical and Cytotoxic Properties of Zinc-Substituted Hydroxyapatite Bioceramic Derived From Eggshells (BICET_117) <i>C.M. Mardziah, S. Ramesh and N.R. Nik Masdek</i>
14:40	Hydrothermal Ageing of Alumina-Toughened Zirconia (BICET_121) <i>M.K.G. Abbas, S. Ramesh, Tao Wu, U. Sutharsini and L.T. Bang</i>

15:00 – 15:20 COFFEE BREAK

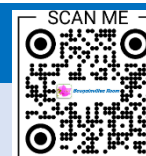
15:20	<p>Plenary Session: Keynote Speaker #4</p> <p>Professor Dr. Jihong Wang <i>School of Engineering</i> <i>University of Warwick, United Kingdom</i></p> <p><i>Session Chair: Professor Ir. Dr. Syuhaimi bin Ab Rahman (Universiti Kebangsaan Malaysia)</i></p>	<p>Simpur Room</p>
-------	--	---------------------------



16:00	Tidal Energy in Brunei Darussalam: Motivations, Potentials and Challenges (BICET_149) <i>Ahmad Farid Dato Hj Ali, Roslynn Rosli and Mohammad Ali Basunia</i>
16:20	Effects of Sintering on the Properties of Ceria Co-doped Scandia Stabilised Zirconia (BICET_145) <i>C.K. Ng, C.H. Ting and S. Ramesh</i>
16:40	Sustainable eSiC reinforced composite materials – Synthetization and Characterization (BICET_150) <i>Md Abdul Maleque, Masjuki Hassan and Yeakub Ali</i>

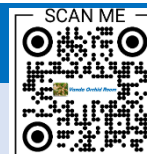
17:00 – 17:20 CLOSING CEREMONY



<https://bit.ly/3aXWgde>Session Chair: **Prof. Dr. Nawaf Hazim Saeid (UTB)****Ir. Dr. Zunaidi Ibrahim (UTB)****Brunei Local Time: 13:20 – 17:20 (GMT+8) • 10th November 2021**

13:20	Analysis on the Effect of Metal Inert Gas Welding Current and Travel Speed on the Mechanical Properties of Mild Steel Weld Joints (BICET_182) <i>Muhammad Farhan Amidon, Zunaidi Ibrahim, Md Asri Muhammad, Mohammad Ali and S. Ramesh</i>
13:40	Effect of Graphene Interface Modification on the Mechanical Properties of Graphene-epoxy Nanocomposite (BICET_187) <i>Akm Asif Iqbal, Dewan Nuruzzaman, Mohammad Yeakub Ali and A K M Parvez Iqbal</i>
14:00	Investigation on the Effect of Cutting Parameters on Surface Roughness in a Turning Operation of a Copper Bar (BICET_21) <i>Muhammad Haziq Awang Jaafar, Md Asri Muhammad, Zunaidi Ibrahim, Ahmad Shamil Abd Rahman, Maziri Morsidi, Pg Seri Rahayu Ya'Akub and Judha Purbolaksono</i>
14:20	Design Simulation and Development of Prototype Filling Nozzle in Food Industry (BICET_156) <i>Nor Aiman Sukindar, Haidah Farzana, Shafie Kamaruddin, Chuan Choong Yang, Sharifah Imihezri Syed Shahrudin and Murhamdilah Morni</i>
14:40	Modelling of Surface Roughness for Glass-Assisted CO ₂ Laser Machined P-Type Silicon Wafer (BICET_188) <i>Sivaraos, K.P. Prasath, S. Ramesh, K. Kadirgama, S. Pujari, U.K. Vatesh, M.S. Salleh, M.A.A. Ali and S. Maidin</i>

15:00 – 15:20 COFFEE BREAK15:20 **Plenary Session: Keynote Speaker #4****Professor Dr. Jihong Wang***School of Engineering**University of Warwick, United Kingdom**Session Chair: Professor Ir. Dr. Syuhaimi bin Ab Rahman (Universiti Kebangsaan Malaysia)***Simpur Room**16:00 CFD Analysis for a Ventilation System of a Kitchen **(BICET_64)***Nawaf Saeid, Murhamdilah Morni and Yeo Kai Lin*16:20 The effects of E-Commerce Businesses to Small-Medium Enterprises : Media Techniques and Technology **(BICET_179)***Syukriah Kadir and Dr.Junaid M.Shaikh*16:40 Universiti Teknologi Brunei Air Handling Unit Conversion **(BICET_167)***Haji Muhammad Adam Haji Rosli and Mohamed Hairol Haji Md Ali***17:00 – 17:20 CLOSING CEREMONY****Simpur Room**


<https://bit.ly/3jmfzSc>


Session Chair: **Dr. Abdul Azad (Universiti Brunei Darussalam)**

Dr. Nurul Islam (UTB)

Brunei Local Time: 13:20 – 17:20 (GMT+8) • 10th November 2021

13:20	Engineering Analysis of an Upright Wheel Assembly for Passenger Vehicle (BICET_23) <i>Mohamed Irfan Bazrul Jama, H.C. Alexander Chee, S. Ramesh, Seri Rahayu Ya'akub, Zunaidi Ibrahim and Mohammad Yeakub Ali</i>
13:40	Energy Saving Capability of Variable Inertia Magneto-Rheological (MR) Flywheel (BICET_204) <i>M.M Rashid and Mohammad Yeakub Ali</i>
14:00	Reinforced Learning Experience Framework (BICET_141) <i>C.V. Aravind, Siva Kumar Sivanesan and S. Ramesh</i>
14:20	Properties of Glass Fiber Reinforced Polyamide 6-Polypropylene Composites under Tensile Loading (BICET_206) <i>Dewan Nuruzzaman, AKM Asif Iqbal, Noor Ismail, Mohammad Yeakub Ali, AKM Parvez Iqbal and Nayem Hossain</i>
14:40 – 15:20 COFFEE BREAK	
15:20	<p>Plenary Session: Keynote Speaker #4</p> <p>Professor Dr. Jihong Wang <i>School of Engineering University of Warwick, United Kingdom</i></p> <p>Session Chair: Professor Ir. Dr. Syuhaimi bin Ab Rahman (Universiti Kebangsaan Malaysia)</p>
17:00 – 17:20 CLOSING CEREMONY	



Simpur Room



Simpur Room



OUTSTANDING



40



128



344

