



WCOSSET 2021

World Congress on Science, Engineering and Technology 2021

March 8 – 13, 2021 | Cisco Webex®



Fakulti
Kejuruteraan Mekanikal

International Conference on Thermofluids, Sustainable Energy & Environment 2021 (ICTSEE 2021)



ICTSEE 2021

INTERNATIONAL CONFERENCE ON THERMOFLUIDS, SUSTAINABLE ENERGY & ENVIRONMENT

Conference date and time:

12 MARCH 2021 | FRIDAY
8.45 AM – 6.00PM

Links to session rooms:

(See below)

Technical Person-in-Charge:

Dr Alhassan Salami Tijani¹
Dr Muhammad Fairuz Remeli²

¹Email: alhassan@uitm.edu.my

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PROGRAM

ICTSEE 2021 ROOM 1

Event address for **Attendees**:

<https://uitm.webex.com/uitm/onstage/g.php?MTID=eaeb55def07b36301e322ae2cb7f966d8>

Event address for **Panelists**:
(password: 123abc)

<https://uitm.webex.com/uitm/onstage/g.php?MTID=e2ed49bd14473403e148af0bad48e1e10>

ICTSEE 2021 ROOM 2

Event address for **attendees**:

<https://uitm.webex.com/uitm/onstage/g.php?MTID=e55fabc5d566a284030d7258b4ce558e0>

Event address for **panelists**:
(password: 123abc)

<https://uitm.webex.com/uitm/onstage/g.php?MTID=e0401800d9eedbc6cc252042262f1bfa1>

Fakulti Kejuruteraan Mekanikal
Universiti Teknologi MARA
40450 Shah Alam,
Selangor Darul Ehsan
Tel: 03-55435161




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Welcoming Remarks & Keynote Address V (Room 1)

Link:

Event address for attendees:	https://uitm.webex.com/uitm/onstage/q.php?MTID=eae55def07b36301e322ae2cb7f966d8
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/q.php?MTID=e2ed49bd14473403e148af0bad48e1e10

Time	Event
8:45 am – 9:00 am	Welcome remarks by Conference Chair; Ir. Ts. Dr Baljit Singh A/L Bhathal Singh
9:00 am – 9:59 am	Keynote Address V Assoc. Prof. Ir. Ts. Dr. Nik Rosli Abdullah Universiti Teknologi MARA, MALAYSIA

ICTSEE 2021 – Paralel Session 1 (Morning Session)-Room 1

Link:

Event address for attendees:	https://uitm.webex.com/uitm/onstage/g.php?MTID=eae55def07b36301e322ae2cb7f966d8
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/g.php?MTID=e2ed49bd14473403e148af0bad48e1e10

Chairpersons:

 Ir. Ts. Dr Baljit Singh A/L Bhathal Singh (baljit@uitm.edu.my)

 Dr. Idris Saad (edris_sd@uitm.edu.my)

Presenter #01	10:00 am – 10:14 pm	The Effect of Adding Metallic Additive to the Diesel Fuel and Waste Cooking Oil Blend Run on a Single Cylinder Diesel Engine Idris Saad, Marina Mahyudin and Saiful Bari <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i>
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Presenter #02	10:15 am – 10:29 am	<p>The Environmental – Visual Pollution Impact of Service Sectors Growth on the Tourism Performance: Regression Analysis of Tourism Receipts In Malaysia</p> <p><u>Intan Maizura Abd Rashid</u>, Syahiru Shafiai, Mastura Roni, Amirah Hazimah Borhanordin, Harniyati Hussin, Irza Hani Abu Samah and Azman Mohd Yusof</p> <p><i>Universiti Teknologi MARA Cawangan Melaka, Malaysia</i></p>
Presenter #03	10:30 am – 10:44 am	<p>Developing Low Carbon Communities: Public Awareness, Acceptance and Attitudes Towards Sustainability of Environmental Health in Malaysia</p> <p><u>Harniyati Hussin</u>, Irza Hanie Abu Samah, Intan Maizura Abd Rashid, Syahiru Shafiai, Mastura Roni and Amirah Hazimah Borhanordin</p> <p><i>Universiti Teknologi MARA Cawangan Melaka, Malaysia</i></p>
Presenter #04	10:45 am – 10:59 am	<p>Consumers Knowledge on Organic Green Product Towards Environmental Awareness During Covid-19: Female Perspectives In Self-Regulation Theory</p> <p><u>Irza Hani Abu Samah</u>, Intan Maizura Abd Rashid, Syahiru Shafiai, Mastura Roni, Amirah Hazimah Borhanordin and Harniyati Hussin</p> <p><i>Universiti Teknologi MARA Cawangan Melaka, Malaysia</i></p>
Presenter #05	11:00 am – 11:14 am	<p>National Initiatives in Greening The Transport Sector: A Case of Electric Mobility In Malaysia</p> <p><u>Syahiru Shafiai</u>, Mastura Roni, Amirah Hazimah Borhanordin, Harniyati Hussin, Irza Hani Abu Samah, Intan Maizura Abd Rashid and Muhammad Rahmat Rosle</p> <p><i>Universiti Teknologi MARA Cawangan Melaka, Malaysia</i></p>
Presenter #06	11:15 am – 11:29 am	<p>Green Technology Policy Towards Sustainable Consumption and Production In Malaysia.</p> <p><u>Amirah Hazimah Borhanordin</u>, Harniyati Hussin, Irza Hani Abu Samah, Intan Maizura Abd Rashid, Syahiru Shafiai, Mastura Roni and Ahmad Danial Zainudin</p> <p><i>Universiti Teknologi MARA Cawangan Melaka, Malaysia</i></p>

Presenter #07	11:30 am – 11:44 am	<p>Pulping Yield and Mechanical Properties of Untreated Bamboo Paper</p> <p><u>Nur Musfirah Suhaimi</u>, Nurul Husna Mohd Hassan, Rushdan Ibrahim and Latifah Jasmani</p> <p><i>Wood Industry, Faculty of Applied Sciences, Universiti Teknologi MARA Pahang, 26400 Bandar Tun Abdul Razak, Pahang, Malaysia</i></p>
Presenter #08	11:45 am – 11:59	<p>Motivations for Green Real Estate Investments in Residential Properties: A Conceptual Framework</p> <p><u>Nor Nazihah Chuweni</u>, Mohamad Haizam Mohamed Saraf and Nurul Sahida Fauzi</p> <p><i>Department of Estate Management, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA, Cawangan Perak, Seri Iskandar, Perak, Malaysia</i></p>
Presenter #09	12:00 pm – 12:14 pm	<p>The Mediating Role of Green Technology Practices in Enhancing Firm Performance</p> <p><u>Mastura Roni</u>, Amirah Hazimah Borhanordin, Harniyati Hussin, Irza Hani Abu Samah, Intan Maizura Abd Rashid, Syahiru Shafiai and Muhammad Azfar Abdullah</p> <p><i>Faculty of Business Management, Universiti Teknologi MARA Cawangan Melaka, Malaysia & Universiti Teknologi Malaysia, Johor Bahru, Malaysia,</i></p>
Presenter #10	12:15 pm – 12:29 pm	<p>A Systematic Literature Review (SLR) on The Strategies in Managing Waste at Green Building</p> <p><u>Puteri Sidrotul Nabihah Saarani</u>, Asniza Hamimi Abdul Tharim, Asmalia Che Ahmad and Rozana Mohamed Salleh</p> <p><i>Department of Quantity Surveying, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA, Cawangan Perak, Seri Iskandar, Perak, Malaysia</i></p>
Break		

ICTSEE 2021 – Paralel Session 2 (Morning Session)-Room 2**Link:**

Event address for attendees:	https://uitm.webex.com/uitm/onstage/g.php?MTID=e55fabc5d566a284030d7258b4ce558e0
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/g.php?MTID=e0401800d9eedbc6cc252042262f1bfa1

Chairpersons:

Ir. Zainal Abidin Kamarul Baharin (zainalkb@uitm.edu.my)

Dr. Alhassan Salami Tijani (alhassan@uitm.edu.my)

Presenter #11	10:00 am – 10:14 pm	<p>Exploratory Functional Extreme Data Analysis: An Application to Rainfall Data in Peninsular Malaysia <u>Noor Izyan Mohamad Adnan</u>, Mohd Bakri Adam and Nur Amalina Shafie <i>Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA Cawangan Pahang, 26400 Bandar Tun Abdul Razak, Malaysia</i></p>
Presenter #12	10:15 am – 10:29 am	<p>Modeling Interrelationship between Daily Ozone Curves and the Precursors Using Functional Data Analysis at Several Industrial Sites in Peninsular Malaysia Nur Afiqah Mohd Nazaran, <u>Norshahida Shaadan</u> and Nurul Huda Nabihan <i>Center of Statistical and Decision Science Studies, Faculty of Computer and Mathematical Sciences, UiTM, 40450, Shah Alam, Malaysia</i></p>
Presenter #13	10:30 am – 10:44 am	<p>Influence of condenser plate inclination angle on single slope solar still performance under Malaysian conditions <u>Zainal Abidin Kamarul Baharin</u>, Nik Rozlin Nik Mohd Masdek, Baljit Singh Bhathal Singh, Azlin Mohd Azmi, Audreyllia Natasha Tikok and Abhijit Date <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i></p>

Presenter #14	10:45 am – 10:59 am	<p>Thermos-Physical Properties and Heat Transfer Characteristics of Al₂O₃ and CuO Nanofluid with Water/Ethylene Glycol as Coolant in a Flat Tube of Car Radiator</p> <p><u>Alhassan Salami Tijani</u> <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i></p>
Presenter #15	11:00 am – 11:14 am	<p>Elicitation of Conditional Probability Table (CPT) For Risk Analysis of Biomass Boiler in Energy Plant</p> <p>Ahmad Nur Fikry Zainuddin , Nurul Ain Syuhadah Mohammad Khorri and <u>Nurul Sa'adah Sulaiman</u> <i>Faculty of Chemical & Process Engineering Technology, Universiti Malaysia Pahang, Lebuhraya Tun Razak, 26300 Gambang, Pahang, Malaysia.</i></p>
Presenter #16	11:15 am – 11:29 am	<p>Improvement of Groundwater Abstraction through Application of Ground Vibration</p> <p><u>Fauzi Baharudin</u>, Janmaizaturiah Jani, Lee Wei Koon and Rozita Jailani <i>Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia</i></p>
Presenter #17	11:30 am – 11:44 am	<p>Flexural Behavior of Engineered Cementitious Composites Containing Moderate Volume Fraction of Polyvinyl Alcohol Fibers</p> <p><u>Lee Siong Wee</u>, Mohd Raizamzamani Md Zain, Oh Chai Lian, Nadiyah Saari and Norrul Azmi Yahya <i>Faculty of Civil Engineering, Universiti Teknologi MARA Johor, Pasir Gudang Campus, 81750, Masai, Johor Malaysia</i></p>
Presenter #18	11:45 am – 11:59	<p>Mathematical Modelling and Parametric Studies for the Methanol in Fixed Bed Catalytic Reactor Using Aspen Plus</p> <p><u>Mohd Azahar Mohd Ariff</u>, Nor Adila Mohd Nasir , Zulkifli Abdul Rashid , Nur Alwani Ali Bashah and Fakhrony Sholahudin Rohman <i>Faculty of Chemical Engineering, Universiti Teknologi MARA, Cawangan Pulau Pinang, Kampus Permatang Pauh, 13500 Permatang Pauh, Pulau Pinang, Malaysia.</i></p>

Presenter #19	12:00 pm – 12:14 pm	<p>Potential of Timber Ash Concrete as Sustainable Materials under Uncontrolled Burning Condition</p> <p><u>Adrina Rosseira Abu Talip</u>, Herda Balqis Ismail, Muhammad Bazli Faliq Mohd Puaad and Arbanah Muhammad</p> <p><i>Faculty of Civil Engineering, Universiti Teknologi MARA, 81750 Pasir Gudang, Johor</i></p>
Paper 20	12:15 pm – 12:29 pm	<p>Maintenance Strategy Selection using Fuzzy Delphi Method in Royal Malaysia Air Force</p> <p>Shahizan Ahmad, <u>Norhafezah Kasmuri</u> and Nor Asyikin Ismail</p> <p><i>Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam 40450 Selangor, Malaysia</i></p>
Break		

Welcoming Remarks & Keynote Address VI- Room 1

Link:

Event address for attendees:	https://uitm.webex.com/uitm/onstage/g.php?MTID=eae55def07b36301e322ae2cb7f966d8
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/g.php?MTID=e2ed49bd14473403e148af0bad48e1e10

Time	Event
01:55 pm – 01:59 pm	Welcome remarks by Conference Track Editor; Dr. Alhassan Salami Tijani
02:00 pm – 2:59 pm	Keynote Address VI Assoc. Prof. Nidhi, Mar Baselios College of Engineering & Technology, Kerala, India

ICTSEE 2021 – Paralel Session 1 (Evening Session)-Room 1**Link:**

Event address for attendees:	https://uitm.webex.com/uitm/onstage/g.php?MTID=eae55def07b36301e322ae2cb7f966d8
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/g.php?MTID=e2ed49bd14473403e148af0bad48e1e10

Chairpersons:Dr. Muhammad Fairuz Bin Remeli (fairuz1299@uitm.edu.my)Ts. Dr. Ahmad Hussein Abdul Hamid (husein@uitm.edu.my)

Presenter #21	03:00 pm – 03:14 pm	<p>Evaluation of a Newly Designed Aerospike for Cloud Seeding Prototype Rocket Drag Reduction</p> <p><u>Ahmad Hussein Abdul Hamid</u> <i>High Energy Material Research Laboratory (HEMREL), Faculty of Mechanical Engineering, Universiti Teknologi MARA, Malaysia</i></p>
Presenter #22	03:15 pm – 03:29 pm	<p>Effect of POME Additive in Algae-Diesel Fuel Blends on Emissions Characteristics of a Single Diesel Engine</p> <p>Hazim Sharudin, Muhammad Arif Bin Ab Hamid Pahmi, Sharzali Che Mat, Nor Iswadi Ismail, Mohd Fahmi Md Salleh, Fadhlin Nur Aini Rahman Shah, and Nik Rosli Abdullah <i>Fakulti Kejuruteraan Mekanikal, Universiti Teknologi MARA, Cawangan Johor, Kampus Pasir Gudang, Johor, Malaysia</i></p>
Presenter #23	03:30 pm – 03:44 pm	<p>Designing A Solar Heat Storage System using Heat Pipe and Phase-Change Material (PCM)</p> <p><u>Muhammad Fairuz Remeli</u> <i>Energy Conservation for Automotive Research Group, Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM), 40450, Shah Alam, Selangor, Malaysia</i></p>

Presenter #24	03:45 pm – 03:59 pm	<p>Aerodynamic Properties Comparison between Natural Feather, Nylon, and Synthetic Shuttlecocks</p> <p><u>Muhammad Fairuz Remeli</u> <i>Energy Conservation for Automotive Research Group, Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM), 40450, Shah Alam, Selangor, Malaysia</i></p>
Presenter #25	04:00 pm – 04:14 pm	<p>Efficient Energy Optimization Routing for WSN Based on Even-Odd Scheduling</p> <p><u>Muhammad Zafar Iqbal Khan</u>, Kamarularifin Abd Jalil, Mohd Faisal Ibrahim <i>Fakulti Sains Komputer Dan Matematik, Universiti Teknologi MARA, 40450, Shah Alam Selangor.</i></p>
Presenter #26	04:15 pm – 04:29 pm	<p>Evaluation of Single Missing Value Imputation Techniques for Incomplete Air Pollution Data in Malaysia</p> <p><u>Ahmad Zia Ul-Saufie</u>, Mohd Faisal Ibrahim <i>Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia</i></p>
Presenter #27	04:30 pm – 04:44 pm	<p>Tensile Strength of Engineered Cementitious Composite Containing High Volume of GGBS</p> <p><u>Oh Chai Lian</u>, Lee Siong Wee, Norrul Azmi Yahya and P. Gajalakshmi, Mohd Raizamzamani Md Zain <i>Faculty of Civil Engineering, Universiti Teknologi MARA, 40450, Shah Alam, Selangor Darul Ehsan, Malaysia</i></p>
Presenter #28	04:45 pm – 04:59 pm	<p>An Overview of Microstructural Behaviour of ECC After Exposed to Elevated Temperature</p> <p>Mohamad Hakim bin Khazani, <u>Oh Chai Lian</u>, Lee Siong Wee, Mohd Raizamzamani Md Zain and Norrul Azmi Yahya <i>Faculty of Civil Engineering, Universiti Teknologi MARA, 40450, Shah Alam, Selangor Darul Ehsan, Malaysia</i></p>

ICTSEE 2021 – Paralel Session 2 (Evening Session)-Room 2**Link:**

Event address for attendees:	https://uitm.webex.com/uitm/onstage/g.php?MTID=e55fabc5d566a284030d7258b4ce558e0
Event address for panelists: (panelists Password: 123abc)	https://uitm.webex.com/uitm/onstage/g.php?MTID=e0401800d9eedbc6cc252042262f1bfa1

Chairpersons:

Ir. Dr. Irmie Azlin Zakaria (irmieazlin@uitm.edu.my)
Rosnadiyah binti Bahsan (rosnadiyah@uitm.edu.my)

Presenter #29	03:00 pm – 03:14 pm	<p>The Influence of Canopy Cover on Canopy Interception Loss in Tropical Forest</p> <p><u>Azinoor Azida Abu Bakar</u>, Muhammad Khairudin Khalil, Zulkiflee Abd Latif and Lee Wei Koon</p> <p><i>Faculty of Civil Engineering, Universiti Teknologi MARA Johor, Pasir Gudang Campus, 81750, Masai, Johor Malaysia.</i></p>
Presenter #30	03:15 pm – 03:29 pm	<p>Box-Jenkins Method of Epi-Week Dengue Cases in Gombak and Klang, Selangor, Malaysia</p> <p>Nur Izzah Jamil, <u>Norziha Che Him</u> and Norani Amit</p> <p><i>Department of Mathematics and Statistics, Faculty of Applied Sciences and Technology, Universiti Tun Hussein Onn Malaysia (UTHM), 84600 Pagoh, Johor, Malaysia</i></p>
Presenter #31	03:30 pm – 03:44 pm	<p>Crack Behavior of Self-Compacting Concrete (SCC) Beams containing Eggshell in flexural</p> <p><u>Mohd Raizamzamani Md Zain</u>, Oh Chai Lian, Lee Siong Wee, Norrul Azmi Yahya and Anizahyati Alisibramulisi</p> <p><i>Faculty of Civil Engineering, Universiti Teknologi MARA, 40450, Shah Alam, Selangor Darul Ehsan, Malaysia</i></p>
Presenter #32	03:45 pm – 03:59 pm	<p>Mechanical Properties and Durability of Green Engineered Cementitious Composites – A Review</p> <p><u>Siong Wee Lee</u>, Nadiah Saari, Nor Mayuze Mohamad, Siti Shahidah Sharipudin, Nurharniza Abdul Rahman</p> <p><i>Faculty of Civil Engineering, Universiti Teknologi MARA Johor, Pasir Gudang Campus, 81750 Masai, Johor Malaysia</i></p>

Presenter #33	04:00 pm – 04:14 pm	<p>Experimental Study on The Thermo-Electrical Characteristics of Al₂O₃ and SiO₂ Nanofluids in A Proton-Exchange Membrane Fuel Cell (PEMFC) Cooling Channel</p> <p>Muhammad Amirul Nadim Zarizi, <u>Irnle Azlin Zakaria</u>, Mohamad Noor Izwan Johari, Wan Ahmad Najmi Wan Mohamed, and Raja Mazuir Raja Ahsan Shah</p> <p><i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i></p>
Presenter #34	04:15 pm – 04:29 pm	<p>Thermal Performances of Hybrid Pin Fin with Connector Heat Sink under Natural Convection</p> <p>Muhammad Aniq Asyraf bin Mohd Zamri, <u>Rosnadiyah Bahsan</u>, Alhassan Salami Tijani, Sajith Thottathil Abdulrahman, Ibrahim Kolawole Muritala</p> <p><i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i></p>
Presenter #35	04:30 pm – 04:44 pm	<p>Analysis of Permissible Car Park Area for Natural Smoke Ventilation Using Computational Fluid Dynamics (CFD)</p> <p><u>Muhammad Saifuddin bin Abdul Rahman</u>, Qi Jie Kwong and Azli Abdul Razak</p> <p><i>Faculty of Mechanical Engineering, Universiti Teknologi MARA 40450 Shah Alam, Malaysia</i></p>