
Best Oral Presentation Award

Monday 14 Sept 2026

Parallel Session 1: Advanced Mechanical Design, Manufacturing and Simulation

Venue : Ball Room (Level 13)

Time: 10.45 am -12.20 pm

T1-O-A72 12:05–12:20	Ana Syahidah Binti Mohd Rodzi Universiti Teknologi MARA Cawangan Pulau Pinang <i>Direct Optimization of Analytical Surface Roughness in Ball End Milling Using Particle Swarm Optimization</i>
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Parallel Session 2: Advanced Materials for Sustainable Engineering

Venue: Function Room 2 – Level 13

Time: 10.45 am -12.20 pm

T3-O-A93 11:05–11:20	Muhammad Nur Hakimi Bin Yuzine Universiti Teknologi MARA Cawangan Terengganu <i>Comparative Evaluation of Ciprofloxacin Removal by Maghemite, ZnO, and Their Activated Carbon Nanocomposites in Batch Adsorption</i>
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Parallel Session 3: Malaysia – Japan Joint Symposium on Biomechanics &

Medical Engineering 2026

Venue: Podium 4 – Level 2

Time: 10.45 am -12.20 pm

T8-O-B17 12:05–12:20	Norain Binti Abdullah Kindai University <i>Assessment on new bone formation during early stage of defect healing under titanium implant plate</i>
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Parallel Session 4: Mechatronics, Control & Intelligent Systems

Venue: Podium 5– Level 2

Time: 10.45 am -12.20 pm

T7-O-A86 11:35–11:50	Dr. Ernie Che Mid Universiti Malaysia Perlis <i>Fouling Detection in Heat Exchangers Using Multiparametric Programming</i>
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Monday 14 Sept 2026

Parallel Session 5: Advanced Mechanical Design, Manufacturing and Simulation

Venue : Ball Room (Level 13)

Time: 2.00 pm -3.45 pm

T1-O-A29 14:35–14:50	Ts. Erwan bin Muhammed Ma'asus Universiti Tun Hussein Onn Malaysia <i>Effect of Increasing Wheel Flange Lubrication Coverage on the Wear Rate in MRT Kajang Line</i>
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Parallel Session 6: Advanced Materials for Sustainable Engineering

Venue: Function Room 2 – Level 13

Time: 2.00 pm -3.45 pm

T3-V-A39 14:50–15:05	Jeffry Jamil Universiti Tun Hussein Onn Malaysia <i>Utilising Low-Frequency Phased Array Ultrasonic Testing Techniques for Defects Characterisation in Glass Fiber Reinforced Polymer</i>
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Parallel Session 7: Malaysia – Japan Joint Symposium on Biomechanics &
Medical Engineering 2026

Venue: Podium 4 – Level 2

Time: 2.00 pm -3.45 pm

T8-O-A125 15:05–15:20	Dr. Abdul Halim Abdullah Universiti Teknologi MARA <i>Finite Element-Based Material Selection and Topology Optimization for the Development of a Lightweight Bed-Resting Ankle-Foot Orthosis</i>
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Parallel Session 8: Advanced Materials for Sustainable Engineering

Venue: Podium 5– Level 2

Time: 2.00 pm -3.45 pm

T7-O-A37 14:50–15:05	Muhammad Haziq Bin Noor Akashah Toyohashi University of Technology <i>Wide-Angle Camera Calibration for Net Quality Inspection Using K-Nearest Neighbors</i>
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Parallel Session 9: Advanced Mechanical Design, Manufacturing and Simulation

Venue : Ball Room (Level 13)

Time: 4.00 pm -5.30 pm

T1-O-A106 16:35–16:50	Thamil Selvan A/L S. Kumaresan Universiti Teknologi Malaysia <i>Mechanical Characterization of Elastomeric Materials for Single Use Test Plug Seal (TPS)</i>
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Parallel Session 10: Automotive Engineering

Venue: Function Room 2 – Level 13

Time: 4.00 pm -5.30 pm

T5-O-A62 16:20–16:35	Aida Husna Ahmad Universiti Tun Hussein Onn Malaysia <i>Embedded Control and Retrofit Strategies for Automotive Dynamometer Modernization: A Review of Eddy-Current Retarder Control, Data Acquisition, and Industry 4.0 Integration</i>
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Parallel Session 11: Advanced Materials for Sustainable Engineering

Venue: Podium 4 – Level 2

Time: 4.00 pm -5.30 pm

T3-O-A10 16:20–16:35	Amira Natasha Amir Rizal Universiti Teknologi MARA Shah Alam <i>Thermophysical and Tribological Characteristics of Hybrid SiO₂: TiO₂ Nanoparticles Dispersed in Coconut Oil for Minimum Quantity Lubrication</i>
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Parallel Session 12: Thermofluid & Sustainable Energy

Venue: Podium 5– Level 2

Time: 4.00 pm -5.30 pm

T6-O-A126 16:20–16:35	Farah Ain Binti Johar Universiti Teknologi MARA <i>Comparative Indoor Thermal Comfort Analysis of Roof Insulation and Air Velocity Enhancement in a Tropical Climate School Classroom</i>
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Tuesday 15 Sept 2026

Parallel Session 13: Thermofluid & Sustainable Energy

Venue : Ball Room (Level 13)

Time: 10.30 am -12.45 pm

T6-V-A68 11:35–11:50	Dr. Mohd Azan Bin Mohammed Sapardi International Islamic University Malaysia <i>Numerical Investigation on the Hydraulic Performance of an Inverted-Triangle Turbulence Promoter in a Tubular Channel</i>
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Parallel session 14: Advanced Materials for Sustainable Engineering

Venue: Function Room 2 (Level 13)

Time: 10.30 am -12.45 pm

T3-O-A92 11:05–11:20	Teguh Budiyanto Universitas Indonesia <i>Effect of Solution Treatment Temperature on Microstructures and Mechanical Properties of Al-4.7Zn-1.7Mg (wt. %) Alloy Produced by Squeeze Casting</i>
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Parallel Session 15: Aerospace/ Aviation Technology

Venue: Podium 4 (Level 2)

Time: 10.30 am -12.45 pm

T2-O-B01 11:05–11:20	Dr. Lawal Babatunde Abdulqadir Kwara State Polytechnic, Ilorin <i>Mechanical Influence of Build Orientation and Printing Parameters of PETG in FDM</i>
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Parallel Session 16: Engineering Education & Entrepreneurship

Venue: Podium 5 (Level 2)

Time: 10.30 am -12.45 pm

T9-O-A103 11:20–11:35	Ts. Dr. Helmi Bin Rashid Universiti Teknologi MARA Shah Alam <i>Enhancing Motorcycle Control Understanding Through Early Counter-Steering Education Using a Riding Simulator</i>
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Parallel Session 17: Thermofluid & Sustainable Energy

Venue : Ball Room (Level 13)

Time: 2.00 pm -4.00 pm

T6-O-A147 15:05–15:20	Dr. Muhad Rozi Mat Naw Universiti Teknologi MARA <i>Influence of SiO₂ Nanoparticle Concentration on Bubble Growth Dynamics and Nucleate Pool Boiling Heat Transfer of HFE-7000-Based Nanorefrigerant</i>
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Parallel Session 18: Advanced Materials for Sustainable Engineering

Venue : Function Room 2 (Level 13)

Time: 2.00 pm -4.00 pm

T3-O-A70 14:50–15:05	Dr. Saliza Azlina Osman Universiti Tun Hussein Onn Malaysia <i>Influence of Susceptor Material on Microstructure Evolution and Corrosion Resistance in Microwave Soldering</i>
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Parallel Session 19: Thermofluid & Sustainable Energy**Venue: Podium 4 (Level 2)****Time: 2.00 pm -4.00 pm****T4-O-A84**
14:20–14:35**Dr. Intan Fatimah Ahmad**
Tunku Abdul Rahman University of Management and Technology
Dynamic Characterisation of Abaca Fibre-Reinforced Epoxy Structure
Using Finite Element Model Updating Method**Parallel session 20: Advanced Mechanical Design, Manufacturing and Simulation****Venue: Podium 5 (Level 2)****Time: 2.00 pm -4.00 pm****T1-O-A110**
14:35–14:50**Dr. Naja Aqilah Binti Hisham**
Universiti Teknologi Malaysia
Localized Micro-Airflow Dynamics and Cognitive Temperature
Perception in a Tropical Air-Conditioned Space

Best Poster Presentation Award

T3-O-A26	Ir. Ts. Dr. Abdul Hakim Abdullah Universiti Teknologi MARA <i>Durability of Jute/Epoxy Composites Under Acetic Acid Immersion</i>
T3-O-A119	Dr. Ahsana Aqilah Ahmad Universiti Teknologi MARA <i>Recycled Polypropylene-Kenaf Composites with Waste Fire Extinguisher Powder as Flame-Retardant Filler</i>