

## International Conference of Aerospace Technology (ICAT 2025)

**Date** : 2<sup>nd</sup> September 2025 (Day 1 - Afternoon)  
**Session** : 1A  
**Venue** : Pinnacle 4 at Level M1, The Vertical  
**Theme** : AEROSPACE & ADVANCED  
 MATERIAL/COMPOSITE

MIAT	No.	Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson	
		1400 – 1405	<b>Opening Remarks by Dean UNIKL-MIAT- Dr Mohd Hafizi Shamsudin</b>				
		1405 – 1430	<b>KEYNOTE 1 – Prof.Ts. Shamsul Kamar Abu Samah</b> <b>TITLE – MyAERO Centre of Excellence: Shaping Malaysia’s Aerospace Future</b> <i>(15 minutes for talk + 5 minutes for Q&amp;A + 5 minutes buffer to next session)</i>				
	1	1430 – 1445	Mechanical Behaviour of STF-Based Hybrid Fibre Metal Laminate with Different Nano Fillers	<b>Invited Speaker</b> Dr Rakeshkumar Chellapandiyan	<b>AO-866</b>	<b>Dr Wan Nursheila Wan Jusoh</b>	
	2	1445 – 1500	Navigating Fleet Growth and Maintenance Workforce Challenges: A 2025-2030 Outlook for Malaysia’s MRO Industry	Mohd Hafizi Shamsudin	<b>AO-740</b>		
	3	1500 – 1515	Numerical simulation of a bird-strike on an island-hopping aircraft windshield for various conditions	Annisa Jusuf	<b>AO-867</b>		
	4	1515 – 1530	Performance Analysis of a Foam Core-Stiffened Wing Trailing Edge Under Vortex-Induced Vibration	I Made Wiragunarsa	<b>AO-852</b>		
	5	1530 – 1545	Finite Element Analysis of Dynamic Response of Piezoelectric Actuated Flexible Structure	Leonardo Gunawan	<b>AO-886</b>		
6	1545 – 1600	Parametric Study of Cylindrical and Spherical Trailing Edge Tubercles on NACA 4415 Airfoil for Low Reynolds Number Applications	Newman Dixon	<b>AO-74</b>			

<b>7</b>	1600 – 1615	Experimental Study on H-Rotor Darrieus VAWT Performance with Serrated Vortex Generators on NACA 4415 Blades	Nur Faraihan Zulkefli	<b>AO-71</b>	<b>Dr Safura Abdul Rahman</b>
<b>8</b>	1615– 1630	Optimization of Full-Service Carrier Domestic Networks Using Complex Network Theory for Enhanced Efficiency and Sustainability: A Case Study on Garuda Indonesia	Javensius Sembiring	<b>AO-853</b>	
<b>9</b>	1630 – 1645	Configuration Variation of Urban Air Mobility at Conceptual Design Phase	Kautsar Segaramada	<b>AO-906</b>	
<b>10</b>	1645 – 1700	Rapidly-exploring Random Tree Star (RRT*) algorithm with goal-biasing and angle constraints for 3D path planning of HALE UAVs	Fahrudin Ar Rozi	<b>AO-926</b>	
<b>11</b>	1700 – 1715	Performance Analysis of 5G-Connected UAV Communication for Smart Agriculture	Nadhiya Liyana Mohd Kamal	<b>AO-83</b>	
<b>12</b>	1715 – 1730	Aeroelastic Behavior of Edge-Cracked Multilayer Composite Flat Plates	Rianto Adhy Sasongko	<b>AO-875</b>	
<b>13</b>	1730 – 1745	Thermal Resistance and Combustibility Characterization of Aluminium Composite Panels (ACP) at Airport Facilities Structure Building	Ashrul Riezal	<b>AO-375</b>	
<b>14</b>	1745 – 1800	Thermal Stability and Thermal Conductivity of APP-Treated Kenaf-Based Composites as Sustainable Insulation Materials	Muhammad Ibrahim Salahuddin	<b>AO-794</b>	
<b>15</b>	1800 – 1815	Effect of multi-walled carbon nanotubes on the mechanical properties of carbon resin and carbon-fibre-reinforced polymer	Najihah Mohd Tamyis	<b>AO-101</b>	
<b>16</b>	1815 – 1830	Comparative Study on Fire Behavior and Mechanical Properties of ATH and Calcium Carbonate Filled Epoxy Composites for Aerospace Applications	Muhd Zulfadhli Muhd Zaimi	<b>AO-49</b>	

**Date** : 3<sup>rd</sup> September 2025 (Day 2 - Morning)  
**Session** : 2A  
**Venue** : Pinnacle 2 at Level M1, The Vertical  
**Theme** : AVIATION MANAGEMENT & UNMANNED AERIAL VEHICLE (UAV)

MIAT	No.	Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
		0900 – 0915	<b>KEYNOTE 2 – Dr Liew Kan Ern</b> <b>TITLE - Grounding to Grow: Getting to Minimum Take Off Velocity</b> <i>(10 minutes for talk + 5 minutes for Q&amp;A)</i>			
		0915 – 0930	<b>KEYNOTE 3 – Dr Mustika Sari</b> <b>TITLE - Ground Handling Management</b> <i>(10 minutes for talk + 5 minutes for Q&amp;A)</i>			
	1	0930 – 0945	Aviation Management Practices and Sustainable Business Outcome: A Literature Review	Invited Speaker Dr. Abdelsalam Hamid	AO-910	Dr Azlina Mohd Ali
	2	0945 – 1000	Economics of Airlines: Analysis of Fundamental Metrics for Airlines Success	Mohd Harridon	AO-26	
	3	1000 – 1015	Analyzing the Regulatory Gaps in Indonesia’s Sustainable Aviation Fuel (SAF) Adoption: Challenges and Strategic Recommendations	Mustika Sari	AO-655	
	4	1015 – 1030	Investigation and Analysis of Aircraft Recycling Material Policy to Enhance Sustainability	Lali Gandhi	AO-916	
	5	1030 – 1045	The Strategic Role of General Aviation in Malaysia: A Versatile Sector for Public Service and Economic Empowerment	Muhamad Munzir Khairuddin	AO-65	
6	1045 – 1100	Purchase Decision in Online Travel Agent (OTA) in Jakarta: The Role of E-Service Quality and Brand Trust with User Experience (UX) as Intervening	Antariksa R. Saputra	AO-595		

<b>7</b>	1100 – 1115	Efisiensi Operasional Boarding Dan Ground Handling Garuda Indonesia Di Terminal 3 Soekarno–Hatta	Edward Mahar	<b>AO-623</b>	<b>Dr Nadhiya Liyana Mohd Kamal</b>
<b>8</b>	1115 – 1130	E-Ticketing For Environmental Sustainability: A VBN Theory Approach to Green Consumer Decision-Making In Aviation Industry	Reni Dian Octaviani	<b>AO-625</b>	
<b>9</b>	1130 – 1145	Purchase Decision on Lion Air in Jakarta: The Involvement of Fear of Flying and Price Fairness	Muhammad G.Fariztito	<b>AO-651</b>	
<b>10</b>	1145 – 1200	Analyzing Factors That Influence Generation Z's Intention When Choosing A Flight Route from Jakarta to Tokyo	Manfaati Khoerita	<b>AO-652</b>	
<b>11</b>	1200 – 1215	Microstructure Evolution and Reliability of Ultrasonic Aluminium Bonds on Molybdenum Back Contacts in CIGS Thin Film Photovoltaics	Sabarina Abdul Hamid	<b>AO-421</b>	
<b>12</b>	1215 – 1230	Designing Frequency Selective Surface (FSS) Filter for Anti-Jamming UAV Application	Nurhakimah Norhashim	<b>AO-55</b>	
<b>13</b>	1230 – 1245	Flying Under the Sun: A Review of Failure Challenges Solder in Solar-Powered UAVs	Norliza Ismail	<b>AO-154</b>	
<b>14</b>	1245 – 1300	Optimizing Aircraft Landing Speed via Artificial Neural Networks: A Review of Approaches, Gaps, and Opportunities	Mohd Hishamuddin Abdul Rahman	<b>AO-666</b>	
<b>15</b>	1300 – 1315	Evaluation of flight parameters for Drone- Based Aircraft Inspection Activities	Hamza Tarek Ismail Aly Abdelfattah	<b>AO-738</b>	
<b>16</b>	1315 – 1330	Satellite Communication in the TVET Agenda: An Introductory Perspective from SCASI TCH	Harlisya Harun	<b>AO-677</b>	

**Date** : 3<sup>rd</sup> September 2025 (Day 2 - Afternoon)  
**Session** : 2B  
**Venue** : Pinnacle 2 at Level M1, The Vertical  
**Theme** : Internet of Things (IoT) and Industry Revolution (IR 4.0)

MIAT	No.	Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
	1	1400 – 1415	Vision-Based Real-Time Monitoring of Operator Efficiency in Repetitive Industrial Tasks	John Uzi Uzaimie Mayau	AO-945	Dr Aina Suriani Mahmood@Md . Zawawi
	2	1415 – 1430	Environmental Sustainability through IoT-Based Monitoring System for Indoor and Outdoor Applications	Siti Nur Khadijah Saipol Hisham	AO-946	
	3	1430 – 1445	A Study on Ergonomic Risk Assessment Among Warehouse Workers in an Electronic Manufacturing Industry	Fadlin Afina Suhaimi	AO-947	
	4	1445 – 1500	Development Of Advanced and Low-Cost Automated Guided Vehicle (AGV) Systems for Industrial Material Handling	Suziana Ahmad	AO-948	
	5	1500 – 1515	Phase Difference Defect Detection and Analysis Using LabVIEW for PWM Signal-Based Systems	Saranjuu Chulakit Cham Ren	AO-958	
	6	1515 – 1530	Ergonomic Risk Assessment of the Workers during the Manual Transition Process	Muhammad Uzmana Mohamad	AO-951	
	7	1530 – 1545	Digital Skills Gap Analysis Among Aviation TVET Graduates: An Alumni Survey Study	Anwar Zain Azmy	AO-128	
	8	1545 – 1600	Cybersecurity Challenges in Military Aircraft GPS Tracking Systems: Current Threats, Defense Strategies, and Future Directions	Mohammad FakhruNizam Mohammad	AO-851	

9	1600 – 1615	The Impact of Sustainable Aviation and Electric Vehicles on Aircraft Maintenance Training and Workforce Readiness	Reshminder Kaur	AO-99	Dr Reshminder Kaur
10	1615– 1630	From Resistance to Readiness: Addressing Digital Integration and Regulatory Alignment in Aviation Maintenance Training Organization (Part 147)	Muhamed Roihan Yusoff	AO-376	
11	1630 – 1645	Technology Adoption for Strategic Edge: The Case of Malaysian MRO and Airlines	Abdikani Hassan Hussein	AO-297	
12	1645 – 1700	Efficiency of Airlines: Perspectives of employees of Firefly Airlines	Mohd Harridon	AO-4	
13	1700 – 1715	Regulatory Requirement for Operation of Electric Aircraft in Malaysia	Muhd Zulfadhli Muhd Zaimi	AO-152	
14	1715 – 1730	Investigating The Mechanical Behaviour of Riveted Joints in Aircraft Patch Repair Through Finite Element Modelling And Experimental Testing	Nuraliza Norawzi	AO-60	
15	1730 – 1745	Effect of carbon nanotubes on thermal properties of carbon resin	Najihah Mohd Tamyis	AO-365	
16	1745 – 1800	Investigating Flexural Strength Between Types of Fibre Glass - Kevlar Hybrid Composite	Afiq Faizal Azman	AO-277	
17	1800 – 1815	Evaluation of Cellular-to-UAV Connectivity using RSS Analysis in Different Environments	Nadhiya Liyana Mohd Kamal	AO-857	
18	1815 – 1830	Electrical Stability of Solder Interconnections under Thermal Aging for Solar-Powered UAV	Norliza Ismail	AO-894	
19	1830 – 1845	Reliability Assessment of Recent TT&C System Frameworks: A Comparative Review	Harlisya Harun	AO-31	