



### EXPLORING THE NEW FRONTIER OF AEROSPACE

13<sup>th</sup> December 2025

DoubleTree by Hilton, Shah Alam, Selangor

TIME	TENTATIVE	
8.00 – 9.00	Registration & Light Breakfast	
9.00 – 9.10	Welcoming Speech by Conference Chair <i>Assoc. Prof. Ts. Dr. Rizal Effendy Mohd Nasir</i>	
9.10 – 9.40	<b>KEYNOTE I:</b> Malaysia Space Technology Development <i>Ts Kamaruzzaman Wahid</i> <i>Director of Strategic Applications Division</i> <i>Malaysian Space Agency (MYSA)</i> <i>Ministry of Science, Technology and Innovation (MOSTI)</i>	
9.40 – 10.10	<b>KEYNOTE II:</b> Combustion Technology and Electric Propulsion for Aerospace <i>Professor Yueh-Heng Li</i> <i>Editor in Chief</i> <i>Journal of Aeronautics, Astronautics, and Aviation (JoAAA)</i>	
10.10 – 10.40	<b>KEYNOTE III:</b> High-Speed Fluid-Structure Interactions <i>Professor Gaetano Currao</i> <i>Department of Aeronautics and Astronautics,</i> <i>National Cheng Kung University</i>	
10.40 – 11.00	Closing of Keynote Session & Photography Session	
11.00 – 11.15	Morning Break & Networking	
11.15 – 12.45	<b>Academic Paper Presentation Parallel Session A</b>	
	Session-1A Room: Golden Triangle 1	Session-2A Room: Golden Triangle 2
12.45 - 14.00	Lunch Break & Networking	
14.00 – 15.15	<b>Academic Paper Presentation Parallel Session B</b>	
	Parallel Session-1B Room: Golden Triangle 1	Parallel Session-2B Room: Golden Triangle 2
15.15 – 15.30	Afternoon Break & Networking	
15.30 – 16.45	<b>Academic Paper Presentation Parallel Session C</b>	
	Parallel Session-1C Room: Golden Triangle 1	Parallel Session-2C Room: Golden Triangle 2
16.45 – 17.00	Afternoon Break & Networking	
17.00 – 17.30	Best Presenter Awards & Closing Ceremony	



**SESSION 1A  
GOLDEN TRIANGLE 1**

Chairperson: Associate Professor Ir. Dr. Shabudin Mat

TIME	PAPER ID	PAPER DETAILS
11.15 – 11.30	16	<b>A Multi-Fidelity Modelling Guideline for VLEO Satellite Aerodynamics</b> SALMAN H DAVID (UPM)
11.30 – 11.45	37	<b>Static Pressure Tap Sizing for 3D Printed Airfoil in Wind Tunnel Analysis</b> OLA ALI MOHAMED AL ZAABI (UPM)
11.45 – 12.00	5	<b>Three-Dimensional Aerodynamics Analysis of Wing with Different Winglet Designs using Computational Fluid Dynamics Simulations</b> MUHAMMAD DANIAL AHMAD ZUKHRI (UITM)
12.00 – 12.15	38	<b>Aerodynamic Performance Enhancement of a Wing-In-Ground Craft Using Passive Flow Control</b> RAKSCHINI ELANGGOVAN (UPNM)
12.15 – 12.30	18	<b>Aerodynamic Study of Blended Wing Body (BWB) via Low Fidelity Computational Simulation</b> NUR FAIZAH BADRULHISAM (UITM)
12.30 – 12.45	40	<b>Numerical Investigation of Semicircular Vortex Generator Displacement on the Aerodynamic Performance of Clark Y Airfoil</b> MUHAMMAD DANIAL MUHAMMAD SAIFUL (UNIKL MIAT)

**SESSION 2A  
GOLDEN TRIANGLE 2**

Chairperson: Associate Professor Dr. Azmin Shakrine Mohd Rafie

TIME	PAPER ID	PAPER DETAILS
11.15 – 11.30	25	<b>Morphology Evaluation on Synthesis of nAl and CNTs by Using Sonication Method</b> MUHAMMAD FAIZRIDHWAN RAMLE (UPM)
11.30 – 11.45	43	<b>Resistance Behavior of NiTi Shape Memory Alloy Wires Under Mechanical Strain and Structural Confinement at Controlled Isothermal Conditions</b> AIMAN MOHAMMED (UPM)
11.45 – 12.00	2	<b>Mechanical Performance of Banana Peel Powder Reinforced Epoxy for Drone Frame Application</b> HERBERT NICHOLAS VIGNESVARAN (UPM)
12.00 – 12.15	13	<b>Evaluation and Investigation of Mechanical Properties of Recycled Fibreglass Sounding Rockets via Surface Modification with Kenaf and Pineapple Leaf Fibres</b> AHMAD HAMDAN ARIFFIN (UTHM)
12.15 – 12.30	27	<b>Optimization of Igniter Formulations Using Design-Expert 13: Comparative Study of Aluminum, Magnesium and Boron Additive</b> MUHAMMAD ZAKWAN AZIZI (UITM)
12.30 – 12.45	14	<b>Natural Fibre Hybrid Composites for Aircraft Applications: A Review on Kenaf–Pineapple Leaf Fibre (PALF) Composite and Fibre Orientation Effects</b> AHMAD HAMDAN ARIFFIN (UTHM)



**SESSION 1B  
GOLDEN TRIANGLE 1**

Chairperson: Associate Professor Ts. Dr. Ahmad Hussein

TIME	PAPER ID	PAPER DETAILS
14.00 – 14.15	41	<b>Structural Investigation of Modified Wing with Arrangements of Semi-Circular Vortex Generators Using Finite Element Analysis</b> <i>HARRIZ AZHAN NOOR ESJURAIMY (UNIKL MIAT)</i>
14.15 – 14.30	11	<b>Experimental Study of UAV Ducted Rotor for Thrust and Air Velocity Enhancement</b> <i>SIM REN JIN (UPM)</i>
14.30 – 14.45	17	<b>The Effect of Elevons Deflection to Static Stability of a Low Reynolds Number Blended Wing-Body (BWB) Unmanned Aerial Vehicles (UAV)</b> <i>MUHAMAD HANIS BIN MOHAMAD (UITM)</i>
14.45 – 15.00	34	<b>Experimental Characterization of Sound Level and Vibration Performances of Serrated Propeller Blades</b> <i>MOHAMMAD DENI DANIAL AZAHAR (UNIKL MIAT)</i>
15.00 – 15.15	32	<b>Biomimetic Microspike Enhancement of H-Rotor Darrieus Wind Turbine Performance: An Experimental Investigation</b> <i>MUHAMMAD SAIFUL IZZAT HISHAM (UNIKL MIAT)</i>
15.15 – 15.30	4	<b>Pylon Vibration Mitigation for Enhanced VTOL Aircraft Attitude Control: Bracket Design and PSD Analysis</b> <i>MOHD HANIF MOHD RAMLI (UITM)</i>

**SESSION 2B  
GOLDEN TRIANGLE 2**

Chairperson: Associate Professor Ir. Ts. Dr. Muhammad Hanafi Azami

TIME	PAPER ID	PAPER DETAILS
14.00 – 14.15	12	<b>Performance Assessment of a Triple Tandem Wing Passenger Aircraft Concept using Computational Method</b> <i>ZIYAD TAREK MOHAMMED EL FAR (UPM)</i>
14.15 – 14.30	22	<b>Hydrogen versus Hydrocarbon Fuels in Gas Turbine Propulsion: A Theoretical Assessment toward Sustainable Aviation</b> <i>AMAN MOHD IHSAN MAMAT (UITM)</i>
14.30 – 14.45	6	<b>A Validation Framework for COTS Transceivers in Student Satellite Competitions</b> <i>CHAN KAI XIANG (USM)</i>
14.45 – 15.00	24	<b>Conceptual Framework and Operational Strategies for Hybrid-Electric Propulsion in Light Aircraft</b> <i>LT. COL. (RTD.) MOHAMED TARMIZI AHMAD (UPNM)</i>
15.00 – 15.15	8	<b>Investigating the Effects of Effusion and Film Cooling in a Combustor for a Gas Turbine Engine</b> <i>ZHAO JIALIANG (UPM)</i>



**SESSION 1C**  
**GOLDEN TRIANGLE 1**

Chairperson: Ir. Dr. Fadhilah Mohd Sakri

TIME	PAPER ID	PAPER DETAILS
15.30 – 15.45	21	<b>The Effect of Passive Flow Control Depth on NACA 2412</b> <i>MOHD HAFIZ MOHD NOH (UITM)</i>
15.45 – 16.00	29	<b>Aeroelastic Flutter Analysis on Dihedral Wing Configuration for Simple Aircraft Wing Box</b> <i>DIDA AMMIRUN DAUD (IIUM)</i>
16.00 – 16.15	44	<b>Influence of Telemetry-Induced Data Quality Degradation on Operational Modal Analysis of a Launch Vehicle</b> <i>JUNAID ZAHID (UPM)</i>
16.15 – 16.30	45	<b>Development of Equivalent Reduced-Order Models for Flutter Analysis of Simple Wing-Box Structures</b> <i>HAWRAA SAFAA IBRAHIM (UPM)</i>
16.30 – 16.45	46	<b>Using the DKMQ24 shell element for aeroelastic analysis and tailoring of composite wings</b> <i>ELMORSI RAMIZ GAMAL ABDOU ALI ELSAYED (UPM)</i>

**SESSION 2C**  
**GOLDEN TRIANGLE 2**

Chairperson: Dr. Ezanee Gires

TIME	PAPER ID	PAPER DETAILS
15.30 – 15.45	23	<b>Triangulation-Based Underwater Locator Beacon Detection for Flight Data Recorder Recovery: Field Validation of a Custom Mobile Application, i-Find 2.0</b> <i>NAZRY MOHD ALI (UNIKL MIAT)</i>
15.45 – 16.00	1	<b>Alternative Approach to One-Dimensional Semi-Infinite Heat-Transfer Analysis</b> <i>HELMEY RAMDHANEY MOHD SAIHAH (UTM)</i>
16.00 – 16.15	15	<b>End-of-Life Aircraft Solar Panel Recycling via Low-Temperature Thermal Treatment: Advances in Ethylene-Vinyl Acetate Pyrolysis and Crystalline Residue Analysis</b> <i>AHMAD HAMDAN ARIFFIN (UTHM)</i>
16.15 – 16.30	35	<b>Separation Minima and the Bubble Concept: Towards a Geometric Approach to Sector Capacity</b> <i>SITI MARIAM ABDUL RAHMAN (UITM)</i>
16.30 – 16.45	33	<b>Concept of Operations of Wing-in-Ground Effect Craft for Malaysian Maritime Enforcement Missions</b> <i>LT. COL. (RTD.) MOHAMED TARMIZI AHMAD (UPNM)</i>