

21st Australian International Aerospace Congress

24 – 26 March 2025 | Melbourne Convention and Exhibition
Centre & Avalon Airport



ENGINEERS
AUSTRALIA

Day 1 – Monday 24 March			
Time	Plenary Room 1		
8.45	Congress opening		
9.05	Overcoming adversity in complex defence development projects: insights from Australia's Ghost Bat and Ghost Shark Dr Shane Arnott and Andrew Glynn (Anduril)		
9.35	United in the skies: the power of US-Australia aerospace research partnerships and international university collaborations Dr Geoff Anderson (US Space Force)		
10.05	ASA presentation Further information to be available shortly		
10.35	Morning tea		
Time	Plenary room 1	M101 and M102	M103
	AAC: Structures and materials	AAC: Autonomous systems / UAS	AAC: Airworthiness and sustainment
11.00	Keynote presentation. 111: Beyond horizons: NLR's contribution to shaping tomorrow's aerospace frontiers Marcel Bos (NLR)	Keynote presentation: Amanda Holt (Sypaq)	Keynote presentation: 149: Royal Australian Navy embarked un-crewed aircraft system flight trials - a decade in review Dr Gareth Forbes (AMAFTU)
11.30	56: A method for imparting small-scale damage for damage tolerance testing Isaac Field (DSTG)	17: Autonomous close formation flight control using optical flow Mr Jonathan Dansie (Defence Science & Technology Group)	1: Automated aircraft defect tracking utilising maintenance and pilot reports Mr Michael Scott (RMIT University)
11.50	150: Manufacturing and testing functional composite antenna structures for uncrewed aerial systems Dr Mitch Dunn (Boeing Aerostructures Australia)	28: Autonomous aerial deployment systems for fixed-wing aircraft Dr Artur Medon (Defence Science Technology Group)	103: Governance, regulations and innovation challenges in the Australian General Aviation Mr Craig Dows (RMIT University)
12.10	167: Leveraging QF results for enhanced fleet strategy optimisation: an applied science approach Dr Stefano Argentero (Ruag AG)	29: Relative localisation of fixed wing UAVs with ultraviolet LED markers Dr Blake McIvor (Defence Science & Technology Group)	139: Efficient transfer learning across domains and data modalities for aircraft sustainment Dr Stacey Carter (RMIT University)
12.30	8: Developments in determining the closure free da/dN versus ΔK_{eff} curve Dr Rhys Jones (Swinburne University of Technology)	31: Informative path planning for UAV self-localisation Dr John McGuire (Department of Defence)	69: UAVs, are they fit for humanitarian purpose? Miss Carina Koutsambasis (RMIT University)
12.50	Lunch		

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10.35	ASA presentation Further information to be available shortly		
10.35	Morning tea		
Time	M104	M105	M106
	NSES: Spacecraft dynamics and control I	AAC: Propulsion and aerospace systems	HUMS: Machine condition monitoring
11.00	Keynote presentation: Prof. Sabine Klinkner (University of Stuttgart)	Keynote presentation: Eric Manrineau (Hypersonics)	Keynote presentation 1: HUMS Enabling predictive maintenance: Transforming commercial helicopter operations Dr. Eric Bechhoefer (GPMS, USA)
11.30	25: Shaping the future: state-of-the-art space sensors, based on Synthetic Aperture Radar (SAR) and agile platforms Jaione Martinez and Luis Guerra	Thermal cracking effects on mixing of JP-10 in a scramjet combustor Dr Magesh Ravindran (Australian Submarine Corporation)	165: Comparison of bearing spall and fault diagnostics using inline oil debris monitoring Cédric Peeters (VUB, Belgium)
11.50	32: An overview of emerging technologies in the context of the Australian Space Industry Mr Teddy Zvidza (NOVA Systems)	42: Commissioning of a supersonic test facility at UniSQ Dr Phillip Swann (University of Southern Queensland)	14: Understanding the influence of the load zone on the vibrations excited by discrete faults in rolling element bearings Ian Epps (Mobolo Technology, NZ)
12.10	80: Exploring efficiency of inertial morphing in attitude control of spinning smart prototype: journey from concept to experimental reality Mr Suraj Aranha (RMIT University)	64: Emerging air-breathing propulsion systems for high-speed flight A/Prof Adrian Pudsey (RMIT University)	156: Automatic peak detection algorithm for gearbox monitoring Jean-Frederic Diebold (Safran, France)
12.30	86: Dynamic modelling of the lunar lander toppling Prof Pavel Trivalo (RMIT University)	126: Investigation of afterburner thrust augmentation performance for electric ducted fan UAS propulsion Dr Joni Sytsma (Outerloop)	38: Treatment of erroneous interference effects from post-processed planet gear vibration signals Prof Nader Sawalhi (DSTG, Australia)
12.50	Lunch		

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Day 1 – Monday 24 March			
Time	Plenary Room 1		
1.30	Panel discussion Further information to be available shortly		
Time	Plenary Room 1	M101 and M102	M103
	AAC: Structures and materials	AAC: Autonomous systems / UAS	AAC: Aerodynamics and flight mechanics
2.10	9: Predicting the growth of small cracks in wire arc additively manufactured (WAAM) CP-Ti Dr Rhys Jones (RMIT University)	55: System identification and control tuning of the Wanderer UAS Mr Oliver Wykes (DSTG)	160: Model-based approach to aerodynamic database development for Collaborative Combat Aircraft Mr Luca Brown (Boeing)
2.30	140: Enhancing the fatigue performance of AM components with minimal intervention Mr Jason Rogers (RMIT University)	60: Koopman Expectation for range safety assurance Ms Emma Comino (Shoal Group Pty Ltd)	75: Planar and two-dimensional linear stability theory on modelling rectangular jet Mr Grant Lu (Monash University)
2.50	178: Ensuring airworthiness of additive manufactured parts and repairs in the ADF Mr Beau Krieg (DSTG)	65: Fixed-wing UAV system for aerial tethered delivery of small to medium packages Mr Samuel Ord (RMIT University)	94: Experimental analysis of near and far field wingtip vortex using particle tracking velocimetry Ms Merina Mwasandube (Department of Aeronautical Engineering)
3.10	141: Numerical flow analysis of TPMS gyroid porous media: drag and pumping power Mr Sean Samson (RMIT University)	91: Towards the transition manoeuvre of lift-cruise configuration eVTOL Ms Ridhima Kaul (RMIT University)	98: The single-step and simplified lattice Boltzmann method for aerospace and maritime applications Dr Arturo Delgado-Gutierrez (RMIT University)
3.30	131: Energy storage composites with nanomaterial functionalisation Mr Venkatesh Gangipamula (Swinburne University of Technology)	85: Development and testing of a fixed-wing UAV swarm system for large-area monitoring Ms Karolin Thomessen (FH Aachen)	106: PyFSI – A Python-based Fluid-Structure Interaction code: recent developments in nonlinear modelling Dr Michael Candon (RMIT University)
4.10	Afternoon tea		

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8.00	Panel discussion Further information to be available shortly		
Time	M104	M105	M106
	NSES: Spacecraft systems design and analysis I	HUMS: Data challenge session 1	HUMS: Sensors, SHM and HUMS
2.10	10: Modelling potential distribution for a neutraliser-free ion thruster Phillip Dowling (Australian National University)	121: The HUMS2025 data challenge dataset Wenyi Wang (DSTG, Australia)	26: An improved wireless vibration sensor for real time, in-situ rotorcraft gearbox condition monitoring George Jung (DSTG, Australia)
2.30	11: Coulomb force computation between an ion thruster and plume particles Dr Rhys Jones (Swinburne University of Technology)	HUMS: Data challenge Further details available shortly	68: Improving the extreme temperature measurement capability of FBG sensors encapsulated in low thermal expansion materials Gerard Natividad (DSTG, Australia)
2.50	34: Lunar Wheel design optimisation Mr Jason Rogers (RMIT University)		51: Architecture for a low cost, light weight HUMS for commercial helicopters Eric Bechhoefer (GPMS, USA)
3.10	41: Buccaneer Main Mission concept of operations Mr Beau Krieg (DSTG)		112: A review of the improvements made to the F/A-18 fatigue tracking system: individual aircraft tracking with a safe life philosophy Mathew Phillips (DSTG, Australia)
3.30	72: The effect of phase change material on the performance of heat sinks for small satellites thermal management: an experimental study Mr Sean Samson (RMIT University)		45: Formulation and validation of an aircraft health monitoring tool for the MH-60R/S fleet Katie Krohmaly (US Navy, USA)
4.10	Afternoon tea		

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Day 1 – Monday 24 March			
Time	Plenary Room 1	M101 & M102	M103
	AAC: Structures and materials	AAC: Autonomous systems / UAS	AAC: Aerodynamics and flight mechanics
4.10	5: The impact on thin-shell buckling theory of the use of an erroneous expression for shear strains in curvilinear co-ordinates Dr Leonard John Hart-Smith	93: Boosting drone and AAM propeller efficiency: exploring novel boundary layer tripping techniques Mr Nitish Kumar Kamalahasan (RMIT University)	107: A data-driven reduced order model for trajectory prediction of transonic cavity store release Mr Arpan Das (RMIT University)
4.30	44: Through-thickness dielectric cure monitoring for thermoset composites manufacturing cost reduction Dr Molly Hall (University of Southern Queensland)	130: Warm-starting of pseudospectral trajectory optimisation for improved performance Dr Kendall Taylor (RMIT University)	108: Predicting trajectory repeatability in unsteady flow conditions: refining J-factor for store certification Mr Errol Hale (RMIT University)
4.50	73: Artificial Intelligence of Things (AIoT) framework for composites 4.0 Dr Boon Xian Chai (Swinburne University of Technology)	138: UAV path planning for pest bird deterrence using Bézier curve Dr Zihao Wang (University of Sydney)	110: Optimising asset placement in IAMD scenarios Ms Emma Comino (Shoal Group)
5.10	129: Microscale multifield analyses of composite materials using CUF Miss Rebecca Masia (Politecnico di Torino)	144: Wildfire detection information management using sensor fusion Dr Rohan Kapoor	113: Stabilising extended dynamic mode decomposition using parsimonious mode selection criterion Mr Arpan Das (RMIT University)
End of Day 1			
6.30–10.30	HUMS dinner <i>The Bank on Collins – 394 Collins Street, Melbourne VIC 3000</i>		

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Day 1 – Monday 24 March			
Time	M104	M105	M106
	NSES: Spacecraft dynamics and control II	HUMS: Data challenge session 2	HUMS: Diagnostics, prognostics, ODA
4.10	176: Ground-penetrating radar for mapping LavaTubes on the moon Gail Iles	HUMS: Data challenge Further details to be available shortly	109: New applications of cepstrum analysis in machine diagnostics Zhongxiao Peng (UNSW, Australia)
4.30	155: Discovery of the quaternion patterns while studying spinning spacecrafts in flipping motions Pavel Trivailo (RMIT University)		37: Planet gear crack fault detection and propagation tracking using FRESH filters Konstantinos Gryllias (KU Leuven, Belgium)
4.50	179: A Solar vacuum ultraviolet source for space environment simulations Josef Richmond (Australian National University)		165: Comparison of bearing spall and fault diagnostics using inline oil debris monitoring Nick Breeuwer (Gastops, Canada)
5.10	180: Regolith charging and lofting on the lunar surface: laboratory simulations of the lunar dayside Josef Richmond (Australian National University)		122: Benchmark analyses of the HUMS2025 data challenge dataset Nader Sawalhi (DSTG, Australia)
End of Day 1			
6.30–10.30	HUMS dinner <i>The Bank on Collins – 394 Collins Street, Melbourne VIC 3000</i>		

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Day 2 – Tuesday 25 March			
Time	Plenary Room 1		
9.00	Welcome to Day 2		
9.05	The X-59 Low Boom Flight Demonstrator (LBFD): a structures perspective Dr Walter A Silva (NASA)		
9.35	Plenary presentation Further information to be available shortly		
10.05	Plenary presentation Michael Frater (SkyKraft)		
10.35	Morning tea		
Time	Plenary Room 1	M101 & M102	M103
	AAC: Structures and materials	AAC: Autonomous systems / UAS	NSES: Mission and trajectory design
11.00	Keynote presentation Chiara Bisagni (Politecnico di Milano)	Keynote presentation Emily Hilder (Advanced Strategic Capabilities Accelerator)	Keynote presentation Delphine Spaterna (Thales Group)
11.30	48: Laser powder bed fusion of tantalum: hafnium-carbide for hypersonic thermal protection systems Mr Michael Ives (RMIT University)	148: Development of a modelling framework for swarms of drones with obstacle avoidance capabilities Mr Thotage Madhupa Kalhara (RMIT University)	174: Australian participation in the Milo Mission academy for lunar exploration Gail Iles
11.50	161: Ground vibration testing and dynamic model updating for a collaborative combat aircraft Mr Michael Reece (Boeing)	164: Drone racing's utility to contemporary operations as FPV kamikaze loitering UAV munitions and the next tech leapWGC DR Keirin Joyce (RAAF)	74: On leveraging Ballistic Lunar Transfers to devise cis-lunar transfers from the Lunar Gateway Dr Kawsihen Elankumaran (Australian National University)
12.10	7: An on-board independent sensing system for in-flight aircraft empennage buffet measurement Mr Michael Scott (RMIT University)	24: A3TESS – A virtual proving ground for UAS computer vision-based object detection and localisation algorithms Mr Siddhant Tandon (Defence Science & Technology Group)	172: Investigating the effectiveness of passive radiation shielding against space radiation using OLTARIS Gail Iles
12.30	Measurement of strains using FOS Mr Julian McIntyre (Defence Science & Technology Group)	101: Optimising control for Camber Morphing Wings: unlocking new levels of UAV efficiency Dr Matthew Marino (RMIT University)	154: Analysis of Lunar Navigation Services for Availability on the Surface and in the Low Lunar Orbit Dr Rohan Kapoor (Royal Aeronautical Society)
12.50	Lunch		

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10.35	Morning tea		
Time	M104	M105	M106
	AAC: New technologies	HUMS: AI-based predictive maintenance solutions	Further information to be available shortly
11.00	Keynote presentation Bjorn Nagel	Keynote presentation 2: Methodologies for the design of health indicators Prof. Jerome Antoni (INSA-Lyon, France)	Further information to be available shortly
11.30	115: Leveraging high-fidelity multi-physics computer simulations in the development of electro-optical/infra-red sensors for the detection and tracking of a vehicle for counter-hypersonic applications Dr Valerio Viti (Ansys)	12: Physics-informed neural network for explainable gear condition monitoring Nico Herwig (UNSW, Australia)	
11.50	117: Harnessing the power of GPUs for aerospace simulations Dr Lewis Clark (Leap Australia)	4: A spatiotemporal data fusion technique for aircraft environmental and operational condition (EOC) representation Wei Yin Chia (RMIT, Australia)	
12.10	128: Effects of a customisable toolpath planning algorithm on materials built by cold spray additive manufacturing Dr Linus Yinn Leng Ang (A*Star)	89: Concept and challenges of AI-based fault diagnosis algorithm for rotorcraft SEON HO JEONG (KAI, Korea)	
12.30	Further information to be available shortly	92: Blind peak detection in vibration spectra using region-based convolutional neural networks for instantaneous angular speed estimation Georgios Protopapadakis (VUB, Belgium)	
12.50	Lunch		

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Time	Plenary Room 1		
1.30	Panel discussion Further information to be available shortly		
Time	Plenary Room 1	M101 & M102	M103
	AAC: Structures and materials	AAC: Aerodynamics and flight mechanics	NSES: Spacecraft systems design and analysis II
2.10	147: A thermoelastic stress analysis and coupled modelling approach for improved structural testing and evaluation Dr John Codrington (University of Adelaide)	116: Experimental unsteady aerodynamic loads on an aerofoil covering pre- and post-stall conditions Mr Christopher Brown (RMIT University)	83: Orbit determination concept of CubeSat in Cislunar Space by asynchronous one-way ranging Mr SHINGO NISHIMOTO (Australian National University)
2.30	21: Optical fibre sensing for enhanced system state awareness Ms Suzanna Turk (DSTG)	104: Technical outcomes from the Helicopter Advanced Fatigue Test – Technology Demonstrator (HAFT-TD) program Mr Geoff Swanton (DSTG)	90: A study on positioning service to the vehicles on or around a celestial body Prof Junichiro Kawaguchi (School of Engineering)
2.50	22: Barely visible impact damage detection on an F/A-18 stabilator using line scan thermography Dr Shamron Prasad (Defence Science and Technology)	118: Prediction of streaks in rectangular jets Mr Connor Marshall	97: Comparison of computational tools used for system optimisation in a millimetre wave inter-satellite link design study Mr Oliver Kirkpatrick (RMIT University)
3.10	39: Defect assessment in lattice structures using thermoelastic stress analysis Mr Joshua Rodrigues (RMIT University)	142: X – WING: achieving directional stability in an Uncrewed Aerial System (UAS) without a vertical tail Mr Nishanth Pradyumna (University of Sydney)	127: Building Australia's enduring space capability with iLAUNCH Dr Joni Sytsma (Outerloop Engineer)
3.30	134: A capability for rapid experimental validation of geometrically complex and safety critical aerospace structural components Prof Nik Rajic (1Millikelvin)	152: A physics-based approach for flutter mitigation in highly flexible wings A/Prof Aditya Paranjape (Monash University)	146: From mobile edge to orbital edge– a new space edge paradigm Mr Sam Hall
3.50	Afternoon tea		

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Time	Plenary Room 1		
1.30	Panel discussion Further information to be available shortly		
Time	M104	M105	M106
	AAC: Autonomous systems/UAS	HUMS: Data science and LLM applications	Further information to be available shortly
2.10	30: AI large language models at the edge: applications for UAV autonomy Dr Simon Crase (Defence Science and Technology Group)	169: ADaRA: Asset Damage Resolution Assistant Daniel Wade (LMC, USA)	Further information to be available shortly
2.30	33: Ensuring safety in Urban Air Mobility: addressing collision risks and structural integrity challenges Ms Chanya Charnsethikul (RMIT University)	168: Systems of agents Nathon Regoni (LMC, USA)	
2.50	114: Collaborating to develop autonomous air systems Mr Ben Luther (NOVA Systems)	47: Using natural language processing (NLP), a machine learning (ML) technique, to classify maintenance dataset Eric Lee/Wenyi Wang (DSTG, Australia)	
3.10	123: Multi-UAV separation assurance for dense urban air mobility operations Ms Yuting Xi (RMIT University)	157: Prediction method for remaining useful life based on BNN Xiaolin Wang (DLUT, China)	
3.30	124: Design and manufacture of a fixed wing electric aircraft for cargo transport Dr Joni Sytsma (Outerloop Engineer)	158: Semi-supervised learning-based machinery anomaly detection: a case study with HUMS2023 dataset Dhiraj Neupane (Deakin Uni, Australia)	
3.50	Afternoon tea		

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Day 2 – Tuesday 25 March			
Time	Plenary Room 1	M101 and M102	M103
	AAC: Structures and materials	AAC: Propulsion and aerospace systems	NSES: Launch vehicle design and methods
4.10	15: Filament winding of oxide ceramic material composites (OCCMC) – initial observations and considerations Dr Tristan Shelley (University of Southern Queensland)	126: Investigation of afterburner thrust augmentation performance for electric ducted fan UAS propulsion Dr Joni Sytsma (NER, RPEQ)	98: How Australia can establish and sustain an internationally competitive industrial space engineering capability Dr Arturo Delgado-Gutierrez (RMIT University)
4.30	40: High-temperature thermomechanical testing capabilities in the DSTG Fatigue and Fracture Laboratory Mr Joshua Rodrigues (DSTG)	82: Simultaneous velocity field measurements in a liquid jet with turbulent gas co-flow using two-phase PIV Mr Michael Pangestu (Monash University)	171: Australian model of a space station module for astronaut training
4.50	102 - The post-impact multi-axial load response of aero-representative stiffened composite structures: experimental observations Mr Cooper Swann (RMIT University)	88: Impact of aerodynamic interactions on flutter onset in wings featuring distributed propulsion systems Mr Nils Böhnisch (RMIT University)	100: Numerical modelling of plasma assisted combustion for liquid rocket combustor using GCH ₄ /GOX propellants Mr Abishek Shrestha (Dandelions)
5.10	132 - Effect of hygrothermal ageing temperature on the mechanical degradation of aerospace-grade carbon fibre epoxy laminates Dr Katherine Grigoriou (Monash University)	125: Optimisation of electric ducted fan performance Dr Joni Sytsma (Outerloop Engineering)	81: Development of a low cost space radiation spectrometer for small satellites (RAY) Mr Akash Katudia (Defence Science and Technology Group)
End of Day 2			
6.30–10.30	AIAC21 Conference dinner <i>Aerial South Wharf</i>		

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Day 2 – Tuesday 25 March			
Time	M104	M105	M106
	AAC: MBSE and digital twins	HUMS: Data science/analytics	Further information to be available shortly
4.10	105: A numerical investigation of the interaction between shock buffet and freeplay nonlinearity Dr Michael Candon (RMIT University)	177: AI-based phase demodulation technique for fault diagnosis of rolling bearing under variable speed conditions Mohamed Ismail (KFUPM, Saudi Arabia)	Further information to be available shortly
4.30	120: FEA digital twin of a scarf repair for a composite component Dr Cam Minh Tri Tien (University of Southern Queensland)	67: Insights from using a rapidly deployable, wireless data acquisition system for non-intrusive flight test instrumentation. Mr Sam Mancarella (MEMKO)	
4.50	66: A model-based systems engineering approach to deliver continued airworthiness through integrated working teams and datasets. Mr Sam Mancarella (MEMKO)	144: Wildfire detection information management using sensor fusion Dr Rohan Kapoor (RMIT University)	
5.10	3: Digital engineering and digital twins to drive collaborative microelectronics design A/Prof Aditya Paranjape (Monash University)	HUMS closing ceremony	
End of Day 2			
6.30–10.30	AIAC21 Conference dinner <i>Aerial South Wharf</i>		

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Day 3 – Wednesday 26 March	
Time	Avalon Conference Centre
10.00	Welcome to Day 3
10.05	Keynote presentation Further information to be available shortly
10.55– 11.55	Panel discussion Further information to be available shortly
11.55 – 1.30	Additional keynote and oral presentations Further information to be available shortly
End of Day 3	