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Congress Program

Congress Theme

The theme for the Congress is
"Building on History for the Future".



Call for Papers

The call for papers for the 14th Australian International Aerospace Congress is now closed.

Abstract for Papers to be Peer Reviewed Submission Closed at 5.00pm, 16 July 2010

Abstract for Papers NOT Requesting Peer Review Submission Closed at 5.00pm, 24 September 2010 (01 October for APISAT)

Program

[AIAC14 Congress Program](#) will offer two days of sessions followed by a visit to AVALON 2011.

The Congress will incorporate the;

- 14th Australian Aeronautics Conference,
- 7th International Conference on Health & Usage monitoring (HUMS2011) and
- 3rd Asia-Pacific International Symposium on Aerospace Technology (APISAT 2011).

On Thursday 3 March delegates will visit AVALON 2011 – Australian International Airshow and Aerospace & Defence Exposition.

Keynote Speakers

A variety of international speakers are currently been approached by the Organising Committee for the 14th Australian International Aerospace Congress.

Please click on "Keynote Speakers" for further information.

Presenter Log-in

Presenters can log-in to a password protected area to receive information relevant for their paper submission, presentations, poster displays and and key dates. Passwords are emailed to the submitting abstract author.

Log in

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14th Australian International Aerospace Congress incorporating;
14th Australian Aeronautical Conference

7th DSTO International Conference on Health & Usage Monitoring (HUMS2011)

3rd Asia-Pacific International Symposium on Aerospace Technology (APISAT 2011)

AIAC14 and its incorporated Conferences attracted 467 International and National delegation and provided significant technical and business opportunities for aerospace professionals worldwide.

We would like to take this opportunity to thank the invited Speakers for sharing their time and expertise and to those who contributed to our stimulating program by making oral and poster presentations. We would also like to thank the delegates and Sponsors for their participation in making the AIAC14 Congress a successful one.

Once again we thank you and hope to see many of you at the 15th Australian International Aerospace Congress (AIAC15) in 2013.

14th Australian International Aerospace Congress CD of Proceedings

The AIAC14 Congress Committee has made available a CD of Proceedings for those who weren't able to attend AIAC14 2011. Should you wish to purchase a copy of proceeding please complete the [AIAC14 CD of Proceedings Order Form](#) to obtain your copy?

Congress Co-Hosts:



Associated Event:



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Call for Papers

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Key Dates

Abstract for Papers to be Peer Reviewed Submission Closes	16 July 2010
Abstract for Papers NOT Requesting Peer Review Submission Closes	24 September 2010
Abstract for Papers NOT Requesting Peer Review for APISAT 2011	01 October 2010
Submission Deadline for papers to be Peer Reviewed	01 October 2010
Early Bird Registration Closes	03 December 2010
Submission Deadline for papers that are NOT Peer Reviewed	03 December 2010
Speaker Registration Closes	20 December 2010
Final Submission Deadline for papers that have taken part in the Peer Review Process	10 January 2011

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Call for Abstract Submission

Members of the international aerospace community are invited to submit abstracts for proposed papers and technical briefings that are consistent with the overall Congress theme and topic areas for the three conferences:

- 14th Australian Aeronautical Conference,
- 7th DSTO International Conference on Health and Usage Monitoring (HUMS2011) and
- 3rd Asia-Pacific International Symposium on Aerospace Technology (APISAT 2011).

The papers may take the form of detailed Technical Papers discussing research results and other largely original work, or papers of more general interest nature such as Technical Briefings on capability development programs and new product developments.

If you wish to submit an abstract for consideration by the Program Committee, you must also intend to register for the Congress. On-line submission is the only method of receipt of abstracts.

Abstract submission is a two step process:

STEP 1

Abstract template: download the abstract template, save it to your desktop and complete it:

- Use this template to present your abstract in the required format. Abstracts not submitted using this template will be returned for correction.
- Your abstract text should be no more than 500 words.
- Your abstract should clearly and concisely outline the CONTENT of the presentation and should include key points/issues to be addressed.
- Delete all text in red when you have completed this template.
- After completing the abstract template, move onto step 2.

STEP 2

Online abstract submission form: to complete the online abstract submission form, the following information is required:

- Your contact details
- The title of your abstract
- Nominate your preferred presentation format
- Keywords / topics

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- Name and organisation of all co-presenters and co-authors
- Brief biographies for yourself and all co-presenters.
Each biography should be no more than 100 words
- Audio visual requirements
- Your completed abstract [template](#)

The Abstract Submission has now closed. Please contact the Congress Office if you have any queries.

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Keywords/ Topics

14th Australian Aeronautical Conference
7th DSTO International Conference on Health & Usage Monitoring (HUMS2011)
3rd Asia-Pacific International Symposium on Aerospace Technology (APISAT 2011)

Fourteenth Australian Aeronautical Conference
A joint event of Engineers Australia and the Royal Aeronautical Society, Australian Division

Chair: Dr Noel Martin
Research Leader-Airborne Mission Systems, Air Operations Division, Defence Science and Technology Organisation (DSTO)

The technical program of the 14th Australian Aeronautical Conference will be a joint venture of Engineers Australia and the Royal Aeronautical Society, Australian Division. The Conference aims to present key innovations and achievements in aeronautic technologies and systems, and their current and future aerospace applications. This Call for Abstracts is seeking papers that will report on original work and state-of-the-art reviews that enhance knowledge of aeronautics in the broad areas of:

- Aeronautic Systems, Science, and Technology
- Applications of Aeronautic Systems or Technology to Military, Civil or Commercial Endeavours
- Aerodynamics, Flight Mechanics and Fluid Mechanics
- Aero Structures
- Material Sciences
- Combustion and Propulsion
- Navigation, Guidance and Control
- Avionics and Mission Systems
- Space Technologies and Systems
- Unmanned Aerial Systems
- Aging Aircraft, Cost of Ownership, and Sustainment
- Air Operations and Traffic Control
- System Engineering and Management Science in the Aerospace Industry
- Government Policy that Directs or Drives Aerospace Programs, Systems, and Technologies.

Further topics of interest underpinning many of the above broad areas include, but are not limited to, modelling and simulation, training, support and maintenance, computer aided design and design optimisation, test and evaluation, experimentation, computer aided decision making, corrosion a fatigue, software engineering as well as the development and maintenance of flight critical software, automation and robotics, safety, security, regulation, qualification, and certification.

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Seventh DSTO International Conference on Health & Usage Monitoring (HUMS2011)
Organised by the Defence Science & Technology Organisation

Chair: David Forrester
Propulsion Systems Branch, Air Vehicles Division, Defence Science and Technology Organisation (DSTO)

Co- Chair: Graham Forsyth
Consultant and Founder of HUMS Conference for Defence Science and Technology Organisation (DSTO)

Increasingly, mechanical devices whether fixed systems, land vehicles, marine vehicles (including submarines) or aircraft (including helicopters), are being managed using various Condition Monitoring (CM) or Condition-Based Maintenance (CBM) approaches. All these approaches rely on health (condition) and usage monitoring systems and are most suited to ensuring availability, reliability and safety of critical and high-value assets.

Abstracts for HUMS2011 will be sought for, but not limited to, papers in topics:-

- Health/Condition and Usage Monitoring Strategies
- Condition-Based Maintenance
- Cost-Benefit Analysis
- Data Management
- HUMS Field Experience
- Monitoring Techniques for Propeller/Rotor Track and Balance
- Monitoring Techniques for Engine and Transmission Vibration
- Prognostics and Health Management (PHM)
- Structural Loads Monitoring
- Usage Monitoring

As these apply in areas such as:

- Helicopters
- Fixed-Wing Aircraft
- Land Vehicles
- Marine Vehicles
- Fixed Machinery
- Other or Multiple Areas

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Third Asia-Pacific International Symposium on Aerospace Technology (APISAT 2011)

Chair: A/Professor Cees Bil

Chairman National Organising Committee (APISAT)

Royal Aeronautical Society Australian Division

The Asia-Pacific International Symposium on Aerospace Technology (APISAT) is an initiative by the Korean Society for Aeronautical and Space Sciences (KSAS), the Japan Society for Aeronautical and Space Sciences (JSASS), the Chinese Society for Aeronautics and Astronautics (CSAA) and the Royal Aeronautical Society Australian Division (RAeS Australian Division). For APISAT-2011, the host society is the RAeS Australian Division and the symposium forms part of the 14th Australian International Aerospace Congress. The symposium provides an opportunity for researchers from Asia-Pacific nations and other countries to present their achievements in aerospace R&D and to join us to reflect on aerospace matters concerning our region.

We invite papers that report on innovation, technical and scientific advances on topics that may include, but not limited to:

- Computational Fluid Dynamics
- Wind Tunnel Testing
- Flow Visualization
- Unsteady Aerodynamics
- Acoustics
- Aircraft, Helicopter and UAV Design
- Flight Simulation
- Navigation
- Guidance and Control
- ATM/CNS
- Sensors and Actuators
- Satellite Attitude Control
- Structural Analysis
- Structural Testing
- Smart Structures
- Composite Structures
- Structural Dynamics and Control
- Aeroelasticity and Control
- Combustion Analysis
- Fuel Injection
- Turbines
- Engines
- Cooling Systems
- Spacecraft Propulsion

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Paper Review Process

Abstracts for proposed papers are due by 16 July 2010. Authors are requested to indicate, by clicking the appropriate box, which of the three respective conferences that they are submitting their paper to for consideration.

Authors will be notified of acceptance or rejection of their Abstract by the 13 August 2010.

Authors are requested to notify the respective Conference, by clicking the appropriate box, if they wish to have their full paper Peer Reviewed. Note that the deadline for peer reviewed papers is 01 October 2010. Reviewers feedback will be returned to the authors.

The paper template and on-line submission form can be downloaded from the Congress website. Incorrect formatting will not be accepted.

The final deadline for non-peer reviewed papers is 03 December 2010 and amended peer-reviewed papers is 10 January 2011.

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Congress Proceedings

All papers, whether presented using the oral or poster format, will be included in the Congress Proceedings on CD-Rom. Papers that satisfy the Peer Review process will be indicated as such in the Congress Proceedings.

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Recognition of Best Papers

Papers will be considered for the Conference Best Paper awards program. Selected Technical Papers will be recommended for inclusion in the *Australian Aeronautics Journal*, published by the Royal Aeronautical Society Australian Division.

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Oral and Poster Presentation Format

The Congress will provide for both oral and poster presentation formats. Every effort will be made to fully integrate both presentation formats into the technical program. When submitting your abstract, you are invited to nominate a preferred presentation format by clicking the appropriate box; however the Program Committee reserves the right to decide on the format of presentation for each paper on the basis of time, space available and applicability to the Congress theme and Conference topics/keywords.

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Speaker Registration

The invitation to submit an abstract does not constitute an offer to pay travel, accommodation or registration costs associated with the Conference. Similarly, no speaker fee is paid to successful participants.

All speakers must register for the Congress by Monday 20 December 2010.

Speakers who are not registered by this date will have their paper withdrawn from the Congress and it will not be published.

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Contact Details

For any enquiries regarding abstract submission please contact the Congress Office:

AIAC14 Congress Office
Alison Armstead
Program Coordinator

WALDRONSMITH Management
61 Danks Street West
Port Melbourne VIC 3207 Australia
Tel: +61 3 9645 6311
Fax: +61 3 9645 6322
Email: aiac@wsm.com.au

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Monday 28 February 2011	
1730 - 1900	Registration Desk Open Welcome Reception, Melbourne Convention Centre The Hon Richard Della Riva Minister for Employment & Industrial Relations Minister for Manufacturing, Exports & Trade State Member for Eastern Metropolitan Region

Tuesday 01 March 2011				
0730 - 1730	Registration Desk Open			
0815 - 0915	OPENING PLENARY SESSION Meeting Rooms 109 & 110 Don Love Congress Opening Address The Right Hon the Lord Mayor Robert Doyle The Hon Warren Snowden, Member for Lingiari Minister for Veterans' Affairs Minister for Defence Science and Personnel Minister for Indigenous Health Congress Plenary Address: AVM Chris Deeble Defence Materiel Organisation AUSTRALIA Managing Complex Programs - The Widgetail Experience			
0915 - 0920	Move between session			
0920 - 1000	<table border="1"> <tr> <td>Keynote Address 1 Meeting Room 105 David Forrester Terry Saunder Directorate General Technical Airworthiness AUSTRALIA ADF Experience with HUMS</td> <td>Keynote Address 2 Meeting Room 106 Cees Bil Junichiro Kawaguchi Japan Aerospace Exploration Agency JAPAN Trevor Ireland Australian National University AUSTRALIA Mission to Asteroid Itokawa: The Hayabusa Project</td> <td>Keynote Address 3 Meeting Rooms 109 & 110 Noel Martin Gerard Wallis USN NAVAIR USA Open Systems Architecture, Strategy and Complexity</td> </tr> </table>	Keynote Address 1 Meeting Room 105 David Forrester Terry Saunder Directorate General Technical Airworthiness AUSTRALIA ADF Experience with HUMS	Keynote Address 2 Meeting Room 106 Cees Bil Junichiro Kawaguchi Japan Aerospace Exploration Agency JAPAN Trevor Ireland Australian National University AUSTRALIA Mission to Asteroid Itokawa: The Hayabusa Project	Keynote Address 3 Meeting Rooms 109 & 110 Noel Martin Gerard Wallis USN NAVAIR USA Open Systems Architecture, Strategy and Complexity
Keynote Address 1 Meeting Room 105 David Forrester Terry Saunder Directorate General Technical Airworthiness AUSTRALIA ADF Experience with HUMS	Keynote Address 2 Meeting Room 106 Cees Bil Junichiro Kawaguchi Japan Aerospace Exploration Agency JAPAN Trevor Ireland Australian National University AUSTRALIA Mission to Asteroid Itokawa: The Hayabusa Project	Keynote Address 3 Meeting Rooms 109 & 110 Noel Martin Gerard Wallis USN NAVAIR USA Open Systems Architecture, Strategy and Complexity		
1000 - 1030	Morning Tea			

1030 - 1200	Session 1A	Session 1B	Session 1C	Session 1D	Session 1E	Session 1F	Session 1G	Session 1H	Session 1I	Session 1J
Room Theme Chair	101 Aerospace Design Kevin Goldsmith	102 Propulsion Nigel Smith	103 Avionics Paul Johnson	104 CBM Ian Jennions	105 Helo Technologies Albert Wong	106 UAVs Matt Garratt	107 Structures Brian Falzon	108 Materials Richard Chester	109 & 110 Aerodynamics Bruce Woodyatt	111 & 112 Aircraft Control Farhan Faruqi
1030 - 1100	A Communities of Practice Perspective on Aerospace Engineering Jan Drobik Defence Science & Technology Organisation AUSTRALIA	Dynamic Model of a Novel Ducted Fan Configuration Miles Colman University Of Tokyo JAPAN	An Investigation of Pitot Tube and Multi Hole Pressure Probe Performance Using a Wet Weather Wind Tunnel Test Section* Terrance Flynn University of New South Wales AUSTRALIA	Critical Systems Engineering Perspectives for the Development and Implementation of Enterprise Health Management Solutions Roger Vodicka Defence Science & Technology Organisation AUSTRALIA	The Minimum Flight Routine for Helicopter Rotor Track and Balance Nick Liveness University of Bristol UNITED KINGDOM	Semi-Automatic Calibration of a Strap Down Attitude and Heading Reference System Anselm Fatiadi Defence Science & Technology Organisation AUSTRALIA	Solving Structural Interaction Equations in the Digital Age* Nicholas Bardell GKN Aerospace Engineering Services AUSTRALIA	Tree Joints: Biomimetic Insights for Aerospace Composite Joint Design* Lauren Burns RMIT University AUSTRALIA	An Efficient Strategy to Incorporate Designer-Preferences in Automated Airfoil Design* Robert Carrese RMIT University AUSTRALIA	Advanced Aircraft Automation Tasks Requiring Switched Mode Control* Onvaree Techakasari Australian Research Centre For Aerospace Automation AUSTRALIA
1100 - 1130	Australian Aviation Pioneers Celebrated in Centennial Year of Powered Flight Stratos Patsikatheodorou RMIT University AUSTRALIA	Development of an Infra-Red Suppression System for ch 47d Chinook Helicopters* Gary Dolan GKN Aerospace Engineering Services AUSTRALIA	Approaches to Performance Evaluation of Airborne Mission Systems in the Acquisition Process* Kiril Uzunov Defence Science & Technology Organisation AUSTRALIA	Autonomic and Sense and Respond Logistics: Evidence from the USA and UK* Ray Hingst University Of Southern Queensland AUSTRALIA	Rotorcraft Weight and Center of Gravity Estimation Nicole Aepine Technical Data Analysis, Inc. USA	Precise Autonomous Aerial Payload Delivery System Integrated with UAV and UGV Oleg Yakimenko Naval Postgraduate School USA	Filtering Methods to Determine Reliability-Based Hot Spots of Aircraft Structure Harry Millwater University Of Texas USA	Design Trade Study on Composite Sandwich Cryogenic Pressure Vessels Yoshiki Morino Waseda University JAPAN	Numerical Study of Synthetic Jets with Dual Circular Orifices* Hamed Riazzi University of New South Wales AUSTRALIA	Using Pulsed Jet of Fresh Air to Control CO2 Concentration in an Air Cabin* Chaofan Wu University of New South Wales AUSTRALIA
1130 - 1200	Improved Preliminary Sizing Method for Multidisciplinary Aircraft Design Optimization Nhu Van Nguyen Konkuk University KOREA	Investigation of Multiple orifice Air Jet Vortex Generators for Flow Control * Simon Shun University of New South Wales AUSTRALIA	A Terrain Following Navigation Algorithm Using Terrain Elevation Data Keeyoung Choi INHA University KOREA	Overview of In-situ Environmental Monitoring and Corrosion Sensing Systems for Aircraft Environmental Degradation Management Steve Galea Defence Science & Technology Organisation AUSTRALIA	Use of Artificial Neural Networks for Helicopter Load Monitoring* Catherine Cheung National Research Council Canada CANADA	Scientific Application and Design of Small Unmanned Aircraft Systems* Andreas Scholtz Institute Of Aerospace Systems GERMANY	Shape Estimation Approach for the General Structure Based On The Strain Data Hong-Il Kim Korea Advanced Institute of Science & Technology KOREA	Experimental Investigation of an Energy Absorbing Composite Sandwich Web* Mathew Joosten University of New South Wales AUSTRALIA	An Examination of Suitability of Multi Hole Pressure Probe Technique in Skin Friction Measurement in Three Dimensional Turbulent Flow* Jason Lien University of New South Wales AUSTRALIA	On the Influences of an Increased ILS Glide Slope on Noise Impact, Fuel Consumption and Landing Approach Operation* Reinhard Koenig German Aerospace Center, GERMANY
1200 - 1300	Lunch									
Chair	Dennis Shymko Australian Ukrainian Space Industries AUSTRALIA					Nathan Poyner				
1300 - 1340	Keynote Address 4:					Keynote Address 5:				
Room Chair	Meeting Rooms 109 & 110 Ken Anderson Mark Stuart NASA Langley Research Center USA					Meeting Room 108 David Graham John McCormick Civil Aviation Safety Authority AUSTRALIA				
	New Building Blocks for Aerospace: Advanced Materials and Processing Technologies.					Addressing the Current and Future Challenges in Aviation Safety				

Move between session

1340 - 1345										
1345 - 1515	Session 2A	Session 2B	Session 2C	Session 2D	Session 2E	Session 2F	Session 2G	Session 2H	Session 2I	Session 2J
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Theme	Space	Propulsion	Avionics	Propulsion CM	Helo Structures	Uninhabited Aerial Systems	Structures	Materials	Aerodynamics	Aircraft Systems
Chair	Ian Tuohy	Albert Wong	Graham Smith	Nathan Poyner	Nick Lieven	Jan Drobnik	David Saunders	Greg Bain	Patrick Redmond	Arvind Sinha
1345 - 1415	<p>SCRAMSPACE : Scramjet-based Access-to-Space Systems Russell Boyce University Of Queensland AUSTRALIA</p>	<p>Numerical Characterisation of Transient Particle-Laden Supersonic Jets* Shuo Li Monash University AUSTRALIA</p>	<p>Multi-core CPUs for Mission Computing and Software* Michael Mathers Defence Science & Technology Organisation AUSTRALIA</p>	<p>Super Hornet – F414 Engine Condition Monitoring System (ECMS) Matthew Williams TAE AUSTRALIA</p>	<p>Implementation of Structural Health Monitoring for the USMC CH-53E Jason Thomas NAVAIR USA</p>	<p>Deconflicting the Unmanned Sky: An Analysis of UAV Deconfliction Data Keirin Joyce Australian Army AUSTRALIA</p>	<p>Developing Crashworthy Composite Helicopter Structures: A Building Block Approach* Mathew Joosten University of New South Wales AUSTRALIA</p>	<p>The Effect of Ply Thickness and Notch Size in CFRP Tension Specimens* Adrian Orifici RMIT University AUSTRALIA</p>	<p>Multi-Objective Design Exploration and its Application to Formula One Airfoils* Matthew Watts RMIT University AUSTRALIA</p>	<p>Modeling of Aircraft Ground Taxiing at Congested Airport Ryota Mori Electronic Navigation Research Institute JAPAN</p>
1415 - 1445	<p>Attitude Guidance and Control for a Spinning, Asymmetrical Rocket Payload Michael Creagh The University Of Queensland AUSTRALIA</p>	<p>Model-based Engine Fault Diagnosis Using Vibration Sensor Ji-Hyuk Yang Inha University KOREA</p>	<p>System Design and Development of a MEMS Air Data Attitude and Head Reference System based on Self-Adaptive Kalman Filter Shao-Hua Zhu Flight Automatic Control Research Institute CHINA</p>	<p>An Alternative Approach for Setting Wear Debris Limits Andrew Becker Defence Science & Technology Organisation AUSTRALIA</p>	<p>Flight Testing of Wireless Sensing Networks for Rotorcraft Structural Health and Usage Management Systems Steven Ants MicroStrain, Inc. USA</p>	<p>Development of a Micro Turboprop to Extend Altitude Capabilities of Small UAVs* Dries Verstraete The University Of Sydney AUSTRALIA</p>	<p>Investigation of Stiffener run-out failure* Brian Falzon Monash University AUSTRALIA</p>	<p>Developments in Structural Proof Testing Methodologies for Aircraft Composite Components* Alexander Herman RMIT University AUSTRALIA</p>	<p>Formula 1 Aerodynamics: Versatility of the NLF(1)-0414F Airfoil at Low Reynolds Numbers* Pascual Marques Edge Hill University UNITED KINGDOM</p>	<p>Simulation of Aerial Refuelling in a Distributed Synthetic Environment Peter Ryan Defence Science & Technology Organisation AUSTRALIA</p>
1445 - 1515	<p>Control of Mechanical Ground Support Equipments for Korean Launch Complex Ilhyung Jung Korea Aerospace Research Institute KOREA</p>	<p>Static and Dynamic Characteristics of a Flow Regulator for the Thrust Control of a Liquid Rocket Engine Taekyu Jung Korea Aerospace Research Institute KOREA</p>	<p>A Vibrotactile Acceleration Vector Indicator to Assist High Accuracy Hovering Ken Friedl The University Of Tokyo JAPAN</p>	<p>Enhancing Propulsion System Condition Monitoring for the RNZAF Adrian Weller NZDF NEW ZEALAND</p>	<p>Structural Health Monitoring and damage detection of the helicopter main rotor blades with the structure integrated sensors Krzysztof Dragan Air Force Institute Of Technology POLAND</p>	<p>Bi-mode Bio-inspired UAV - Is It Possible?* Derrick Ho The University Of Sydney AUSTRALIA</p>	<p>Preliminary Aerodynamic Design Space of a Box-Wing Passenger Aircraft* Ishan Roy Salam RMIT University AUSTRALIA</p>	<p>The effect of clearance on single lap countersunk composite joints* Adrian Orifici RMIT University AUSTRALIA</p>	<p>Empirical study of flat plate trailing edge flow and noise* Danielle Moreau The University of Adelaide AUSTRALIA</p>	<p>Flight Testing of an Augmented Separation Management System Providing Separation Protection During Failure of the Central Communication Network* Jiezhen Sean Fan Queensland University of Technology AUSTRALIA</p>
1515 - 1545 Afternoon Tea										

1545 - 1715	Session 3A	Session 3B	Session 3C	Session 3D	Session 3E	Session 3F	Session 3G	Session 3H	Session 3I	Session 3J	
Room	101	102	103	104	105	106	107	108	109 & 110	111 & 112	
Theme	Space	Propulsion	Avionics	Techniques	CBM helo	UAVs	Structures	Materials	Aerodynamics	Aircraft Systems	
Chair	Russell Boyce	Cees Bil	Paul Heuer	Roger Vodicka	Rob Crowe	Jennifer Palmer	Len Meadows	Paul Chang	Shane Hill	Noel Martin	
1545 - 1615	Heat Dissipation Considerations of a Horizontal Take-off Launcher During Re-entry into the Earth's Atmosphere* Haoyang Cheng University of New South Wales AUSTRALIA	Combustion Modelling of JP10 in a Mach-6 Sramjet Engine* Farid Christo University Of South Australia AUSTRALIA	The Quality of Service and Network Management of a Multi-TDL Network System Yulin Ding Defence Science & Technology Organisation AUSTRALIA	Spin Test Monitoring Using Blade Tip Timing Measurement Wenyi Wang Defence Science & Technology Organisation AUSTRALIA	Using HUMS Data to Manage the Fatigue Life of Rotorcraft Critical Dynamic Components David White Axiom Solutions USA	Polarisation Compassing for UAV Navigation* Kent Rosser Defence Science & Technology Organisation AUSTRALIA	The F/A-18A/B Homet Outer Wing Static Test Program (HOWSAT) Galen Needham RAAF AUSTRALIA	Fatigue Properties of Impact Damaged Composites Reinforced with Z-Pins Mohamad Dali Isa Malaysian Institute Of Aviation Technology MALAYSIA	Winglet Design for a Fairchild Merlin III Using CFD Analysis* Kai Lehmkuehler University Of Sydney AUSTRALIA	Large Aircraft Takeoff and Approach Path Optimization out of Challenging Airports* Bertrand Masson Qantas Airways/University of New South Wales AUSTRALIA	
1615 - 1645	Motion Estimation of Target Spacecraft Using Modular Unscented Filtering Kwangyul Baek Korea Advanced Institute of Science & Technology KOREA	LES of Enhanced Mixing and Combustion by Angled Fuel Injection Induced Streamwise Vortices in a Model Strut Supersonic Chamber Man Zhang AVIC Commercial Aircraft Engine Co. Ltd, CHINA	Time-Delay Control for Integrated Missile Guidance and Control Bong-Gyun Park Korea Advanced Institute of Science & Technology KOREA	Optimization of PHM System for Electronic Assemblies Using Maintenance Aware Design Environment Software* Chris Stecki PHM Technology AUSTRALIA	Integrated Software Platform for Diagnostics and Prognostics with Air Vehicle HUMS Card Byington Impact Technologies USA	Is a Small UAV with Extended Altitude Capabilities Feasible?* Dries Verstraete The University Of Sydney AUSTRALIA	Probabilistic Risk Analysis for the C-130 CW-1 Location Ribelito Torregosa Defence Science & Technology Organisation AUSTRALIA	A Revolutionary Approach to the Analysis of Buckling of Thin Cylindrical Shells* Leonard John Hart-Smith AUSTRALIA	Airfoil Stall Suppression by Use of Smart Structure Sensor Actuators for NACA 631-012 Kenichi Rinoei University of Tokyo JAPAN	Assessing Free Flight Airspace Complexity using Nautical Minute Discretisation* Paul Simon RMIT University AUSTRALIA	
1645 - 1715	Tracking Accuracy Characteristics of the Long Range Tracking Radar in NARO Space Center HyoKeun Lee Korea Aerospace Research Institute KOREA	Reliability & Efficiency Researches On Equivalent Experiments Of Heat Exchangers Used On Aircrafts Liang Hu Nanjing Engineering Institute Of Aircraft Systems CHINA	The Integration Problem or the Problem with Integration* Ryan Hales Defence Science & Technology Organisation AUSTRALIA	C-130J-30 In-Flight Propeller Balancing System Brian Rabbechi Defence Science & Technology Organisation AUSTRALIA	MRH 60 HUMS Implementation Verification and Validation Ashley Tuok QinetiQ AUSTRALIA	The Australian Army and Unmanned Aircraft: A Short History Keirln Joyce Australian Army AUSTRALIA	A Study on Multi-Functional Structure Using Rectangular Grid Structure Juhun Rhee Korea Aerospace Research Institute KOREA	Finite Element Modelling of Multi-Layer Composites Using MicroCT Scan Results* Luke Djukic Cooperative Research Centre For Advanced Composite Structures Ltd AUSTRALIA	Numerical Prediction of Massive separation Unsteady Flows around Bluff-bodies Zhixiang Gao Tsinghua University CHINA		
1900 - 2300											
Congress Dinner, Plaza Ballroom, Regent Theatre											
Congress Dinner Keynote 5											
Matt Hill Matt Hill Racing AUSTRALIA											

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0715 - 0815 Student Breakfast Meeting Room 107																																																		
0830 - 0910																																																		
Keynote Address 7																																																		
Meeting Room 109 & 110 Gerry Walles Fabrice Rochereau EADS Australia Pacific AUSTRALIA Capitalising on Experience to Build Up a Strong Defence and Aerospace Industry : a European Example																																																		
Keynote Address 8																																																		
Meeting Room 106 Cees Bil Xiaoping Lu Air Traffic Management Bureau CHINA Development of Air Traffic Management in China																																																		
0910 - 0915 Move between session																																																		
0915 - 1015																																																		
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1045 - 1215	Session 5A	Session 5B	Session 5C	Session 5D	Session 5E	Session 5F	Session 5G	Session 5H	Session 5I	Session 5J
Room	101	102	103	104	105	106	107	108	109 & 110	111 & 112
Theme	Simulation	Propulsion	Vertical Flight	CBM other	Techniques 2	Uninhabited Aerial Systems	Structures	Materials	Aerodynamics	Operations & ATC
Chair	Peter Ryan	Farid Christo	Jeremy Blackwell	Graham Forsyth	David Forrester	Arvind Sinha	Steve Galea	Pud Baburamani	Lachlan Thompson	Geoffrey Brian
1045 - 1115	Apparent Motion of the Runway Sidelines as a Visual Cue to Flare Timing: An Investigation through Full Flight Simulator Experiments* Jorg Entzinger University Of Tokyo JAPAN	Full Flow-Path Design Optimisation of Axisymmetric Scramjets with Premixed Fuel / Air* Hideaki Ogawa The University Of Queensland AUSTRALIA	Measurement of Rotor Blade Motion using SPR Method. Jae-Won Park Korea Advanced Institute of Science & Technology KOREA	Enabling Condition Based Maintenance with Health and Usage Monitoring Systems Scott Kilby US AMSAA USA	Joint Time Frequency Vibration Diagnostics of Main and Engine Accessory Gearboxes Carl Byington Impact Technologies, LLC USA	Flight Envelope of a Tail-Sitter Unmanned Aerial Vehicle Daisuke Kubo Japan Aerospace Exploration Agency JAPAN	Old Ideas Enabled Through Modern Technology David Craddock Directorate General Technical Airworthiness - Australian Defence Force AUSTRALIA	Overview of Defence Science & Technology Organisation's Past and Future Research into Corrosion Structural Integrity Bruce Crawford Defence Science & Technology Organisation AUSTRALIA	Hybrid Airfoil Design for Full-Scale Ice Accretion Test Tao Guo FAI AVIC CHINA	The Small Scales of Turbulence: A Significant Challenge to Micro Flight* Simon Watkins RMIT University AUSTRALIA
1115 - 1145	Rapid Automated Aircraft Simulation Model Updating From Flight Data Geoffrey James Brian Defence Science & Technology Organisation AUSTRALIA	Research on the Cooling Channels of the Preburners for Small Liquid Rocket Engines Insang Moon Korea Aerospace Research Institute KOREA	Control of Autonomous Quadrotor Helicopters in High Speed Flight Ryo Hashimoto The University Of Tokyo JAPAN	Terrain Regime Identification and Classification for Condition Based Maintenance Kait Hatton US AMSAA USA	Improved Simulations of Faults in Gearboxes for Diagnostic and Prognostic Purposes using a Reduced Finite Element Model of the Casing* Nadar Sawalhi University of New South Wales AUSTRALIA	Path Planning of UAV Formations using New Potential Field and Cluster Analysis Takuma Hino University of Tokyo JAPAN	Wing Dry Bay Sizing for Uncontrolled Fire Minimization Due to Uncontained Engine Failure Yanyan Fu First Aircraft Institute of Aviation Industry Corporation of China CHINA	Characterizing Foreign Object Damage in T1-6A1-4V for Aerospace Applications Nicholas Orchowski RMIT University AUSTRALIA	Controlling the Secondary flows in a 90°E Turning Duct using Nonaxisymmetric Endwall and Endwall Boundary Layer Fence Jongjae Cho Pusan National University KOREA	Three-Dimensional PIV Measurement in Supersonic Flow In-Seuk Jeung Seoul National University KOREA
1145 - 1215	Progress in Automatic Grid Generation for Accurate Navier-Stokes Simulations Paulus Lahur Research Center Of Computational Mechanics, Inc. AUSTRALIA	Combustion Analysis of Aluminum with Water Shikyung Yoon Korea Aerospace University KOREA	Rotor Wake Simulation by Using a Non-Equilibrium Eddy Viscosity Model Young Hwa Kim Korea Advanced Institute of Science & Technology KOREA	The Role of HUMS in the Evolving Generic Vehicle Architecture Keith Mowbray Dyteana Ltd UNITED KINGDOM	Detachable Acoustic Electric Feedthrough for In Situ SHM Systems Jeremy Skippin Defence Science & Technology Organisation AUSTRALIA	Vision-Based Hardware-In-the Loop Simulation Test of Vision-Based Net-Recovery for Fixed-wing Unmanned Aerial Vehicles Mingu Kim Seoul National University KOREA	Application of Wavelet Transform to Aircraft Safety Masaru Naruoka The University Of Tokyo JAPAN	Defence Science & Technology Organisation - NLR collaborative programme on fatigue properties of β -annealed T1-6A1-4V: preliminary results Simon Barter Defence Science & Technology Organisation AUSTRALIA	Multidisciplinary Design Optimization of Hypersonic Aircraft Yoshinori Matsuno The University Of Tokyo JAPAN	A Study on Roll Lock-in Phenomena of a Canard-Controlled Missile with Freely Spinning Tailfins Young Rok Yang Gyeongsang National University KOREA
1215 - 1315	Lunch									

1315 - 1355		Keynote Address 9					Keynote Address 10				
Room		Meeting Room 109 & 110					Meeting Room 106				
Chair		Brian Fatzon Ian Jennions Integrated Vehicle Health Management Centre UNITED KINGDOM The Story So Far, Development of an Integrated Vehicle Health Management Centre					Cees Bil Jai Moo Kim Korea Aerospace Research Institute KOREA Tiltrotor UAV Development and Ground Test				
Move between session											
1355 - 1400											
1400 - 1530	Session 6A	Session 6B	Session 6C	Session 6D	Session 6E	Session 6F	Session 6G	Session 6H	Session 6I	Session 6J	
Room	101	102	103	104	105	106	107	108	109 & 110	111 & 112	
Theme	Sustainment	Structures	Control Systems	Data Acquisition/SHM	Helo HUMS	Uninhabited Aerial Systems	Certification & Safety	Materials	Aerodynamics	Systems	
Chair	Kevin Goldsmith	Robert Boykett	Noel Martin	Steve Galea	Andrew Becker	Simon Watkins	Kevin Walters	Mark Shuart	Robert O'Dowd	Robert Gulley	
1400 - 1430	Sustaining Aircraft Structural Integrity: Risk and Value Management* Eric Wilson University of New South Wales AUSTRALIA	Fatigue-Initiating Discontinuities in Aircraft Structures* Simon Barbar Defence Science & Technology Organisation AUSTRALIA	Control System Design and Optimisation via Genetic Programming* Anna Bourmistrova RMIT University AUSTRALIA	Next Generation Data Acquisition Technologies for Aging Aircraft* Niall Heffernan ACRA CONTROL IRELAND	Maneuver/Regime Recognition Validation & Verification Using Visualization Techniques Suresh Moon Air Vehicle Engineering, L3 Communications USA	Coordination of Mission Roles for Semi-Autonomous UAVs in a Simulated Combat Environment* Haoyang Cheng University of New South Wales AUSTRALIA	Measurement and Communication of Military Aviation Software Safety Risks Patrick Redmond Australian Defence Force AUSTRALIA	Application of CT Scanning to Investigate the Failure of Carbon Fibre Composite Bolted Joints* Garth Pearce University of New South Wales AUSTRALIA	Aerodynamic Improvement of Flap Performance Using Delta-shaped Vortex Generator Dongyouon Kwak Japan Aerospace Exploration Agency JAPAN	The Static Flight Performance Analysis of a Korea Traditional Kite Kang Chi-Hang Korea Air Force Academy KOREA	
1430 - 1500	Through-Life Support as a Service: The Role of Aircraft Manufacturers* Luke Webb RMIT University AUSTRALIA	Aircraft Landing Gear Parameter Estimation and Simulation using Elimination Method Ka Wai Lee RMIT University AUSTRALIA	Firefighter UAV Airfoil Design Via Evolutionary Algorithms* Adrian Hudiono RMIT University AUSTRALIA	The AUSAM System for Fatigue Crack Monitoring in a Wing Skin: A Case Study Cedric Rosalie Defence Science & Technology Organisation AUSTRALIA	The Dutch Approach to Force Life Management (FLM) Issues Lex ten Have & Arjen Vollebregt NLR THE NETHERLANDS	Aerodynamic Tasting of Small, Hovering Entomopters* Jennifer Palmer Defence Science & Technology Organisation AUSTRALIA	Risk Based Approach to Compliance Assurance Shaun Norman Directorate General Technical Airworthiness AUSTRALIA	Response Characterisation in CFRP Notched Coupons with Energy-Based Multi-Axial Failure Data* Andrew Litchfield RMIT University AUSTRALIA	Design of a Small-scale Supersonic Flight Experiment Vehicle as a Flying Test Bed and Construction of its Prototype for Subsonic Flights Kazuhide Mizobata Muroran Institute Of Technology JAPAN	The Technique Studies on Stability of Rocket Ejection Seat Ming Wu Aerospace Life-Support Industries, LTD CHINA	
1500 - 1530	The P-3 Repair Assessment Manual (RAM) Kevin Walters QinetiQ AeroStructures AUSTRALIA	Gust Alleviation Device Applied To The Sensorcraft Structure Garath Vio University of Sydney AUSTRALIA	Fault Tolerant Flight Control System Design for Unmanned Air Vehicles* Rudaba Khan RMIT University AUSTRALIA	Slotted Circular Microstrip Patch Antenna Application in Strain Based Structural Health Monitoring* Ali Dalfi RMIT University AUSTRALIA	Replacing Obsolete Equipment For Drivetrain Health Monitoring On RAN Sea King Helicopters Paul Marsden Defence Science & Technology Organisation AUSTRALIA	Geometric Analysis of Optimal Trajectory for 3D Localization by UAVs with Bearing-only Sensor Jaehwan Pi Korea Advanced Institute of Science & Technology KOREA	The Certification and Qualification Flight Test Campaign of the Tanker KC30 for the RAAF Miguel Morell Airbus Military SPAIN	Influence of Heat Treatment of Aging on the Mechanical Properties of Aluminium 6063 T5 AND 6061 T8* Carlos Arturo Bohorquez Avila Universidad Libre COLOMBIA	Pressure Fluctuations Over an Airfoil in Smooth and Turbulent Flow at Low Reynolds Number Sridhar Ravi RMIT University AUSTRALIA	The Reliability of KUH Full-scale Airframe Static Test Chang-Won Shul Agency For Defense Development KOREA	

1530 - 1600									Afternoon Tea									
1600 - 1700		Session 7A	Session 7B	Session 7C	Session 7D	Session 7E	Session 7F	Session 7G	Session 7H	Session 7I								
Room	Theme	Chair	101	102	103	105	106	107	108	109 & 110								
	Space	Lachlan Thompson	Sustainment	Safety	Panel Session	Uninhabited Aerial Systems	Aviation Safety	Structures	Aerodynamics									
		Nathan Poyner	Richard Kloeden	Albert Wong	Keirin Joyce	Jeremy Blackwell	Loris Molent	Jan Drobik										
	1600 - 1630		A Novel Method for the Prediction of Remaining Useful Life Based on the LSCR Approach* Sangho Ko Korea Aerospace University KOREA	Study for Initial Attitude Estimation of Gliding Munitions through Observability Analysis of the GPS/INS Algorithm Jaemin Sung Gyeongsang National University KOREA	HUMS Implementation Phase - Lessons Learned and Outstanding Issues	Preliminary Flight Testing of Autonomous Soaring with the K&H UAS* Jennifer Palmer Defence Science & Technology Organisation AUSTRALIA	Risk Analysis of Safety By Inspection of Ageing Aircraft Kevin Watters QinetiQ AeroStructures AUSTRALIA	Ageing Aircraft Systems Audit - Fighting the Ageing Process Robert Boykett Defence Science & Technology Organisation AUSTRALIA	Dynamic Surface Pressure Measurements on a Flapping Wing Model Simon Watkins RMIT University AUSTRALIA									
	1630 - 1700	Special Overview Briefing: Roscosmos and Australia Perspective Cooperation Trends. Gennady Raykunov, Nikolay Panichkin, Viktor Ivanov Central Research Institute for Machine Building RUSSIA	Optimisation of Maintenance Schedule for Military Helicopter Fleet Using Simplex and Metaheuristic Methods* Leonard Winata RMIT University AUSTRALIA	Air and Ground Motion Analysis of an Automatic Landing System for an UAV Ji Tae Kim Gyeongsang National University KOREA	HUMS2011 Conference wrap-up and Feedback.	Unmanned Aerial Vehicle: Development Trends & Technology in Singapore Sutthiphong Srigrarom SIM University SINGAPORE	Technical Tests Results of the System 'Intrans' For Use During the Accident Aircraft Igor Zalogin National Aerospace University AUSTRALIA	Developments with the F/A-18 FINAL Centre Barrel Test Program Geoff Swanton Defence Science & Technology Organisation AUSTRALIA	Aerodynamic Modelling of Flapping-Wing Flight* Aliya Valiyff Defence Science & Technology Organisation AUSTRALIA									
									<i>Move between session</i>									
									CONGRESS PLENARY CLOSING									
									Meeting Rooms 109 & 110									
									Noel Martin									
									HUMS Defence Science & Technology Organisation Conference Dinner									
									Studio 3, Crown									



Day 3 - Thursday 3 March 2011

Australian International Airshow & HUMS2011 Program

0730 - 0900 Coach Transfer from Melbourne Convention Centre to AVALON 2011

0930 - 1230

HUMS - Technical Briefings at Australian International Airshow AVALON 2011

0930 - 1000 Onboard Helicopter Rotor Condition Monitoring Systems and Smoothing Algorithms
Peter Morrish, *HeliTune* & Steve Pollard, *University of Bristol*

1000 - 1030 F414 Engine Condition Monitoring System (ECMS) - Program Demonstration
Matt Williams, *TAE*

1030 - 1100 Next Generation Multi-role Recording: A Reliable, Flexible Solution
Niall Hefferman, *Acra Control*

1100 - 1130 To be advised

1130 - 1200 To be advised

1500 - 1700 Coach Transfer from AVALON 2011 to Melbourne Convention Centre

KEY

Presentation Titles Marked With An * Indicates the Paper has been Peer Reviewed

	AERO Papers
	HUMS Papers
	APISAT Papers