

**0800 Registration & Coffee / Tea**

**0900 Opening Session**

## Welcome Address

ME7 Francis Cheong Han Kwok  
Head Air Engineering & Logistics, Republic of Singapore Air Force

Mr Lim Yeow Khee  
President, Singapore Institute of Aerospace Engineers

**0910 Keynote Address by Guest of Honour (GOH)**

Mr Chan Yeng Kit  
Permanent Secretary (Defence), Ministry of Defence, Singapore

**0930 Speech by the Distinguished Guest Speakers**

Mr Detlef Selhausen  
Director-General for Equipment, Information Technology and In-Service Support, Federal Ministry of Defence, Germany

Ms Jenny Body  
President, Royal Aeronautical Society (RAeS), United Kingdom

**1020 Tea Break**

**1050 Plenary Session**

Dr Ken Anderson  
Chief, Aerospace Division, Defence Science and Technology Organisation, Australia  
*'Aeronautical Research in the Australian Defence Science and Technology Organisation'*

ME6 Reuben Lim  
Head Aerosystems Branch, Republic of Singapore Air Force  
*'Challenges and Ideas in Implementing Condition-Based-Maintenance (CBM)'*

Mr Michael K. Sinnott  
Vice President, Product Development, Boeing Commercial Airplanes  
*'Accelerating Innovation'*

Mr Mike Bausor, A350  
XWB Marketing Director, Airbus  
*'A350 XWB – Shaping Efficiency'*

**1210 Lunch**

Session Timing	Track 1 Structures / Aerodynamics	Track 2 Propulsion
<b>1330</b>	Distributed Strain Sensing For Structural Health Monitoring <i>Prof. Chiu Wing Kong (Monash University, Australia)</i>	Current and Future Challenges in Propulsion for Military Aircraft <i>Mr Ian Ritchey (Rolls-Royce Group PLC)</i>
<b>1400</b>	Challenges in Developing a Light Weight Passenger Seat <i>Mr Lim Guo Hui (Singapore Technologies Aerospace)</i>	Application of Gas Path Diagnostics To Gas Turbine Engines <i>Dr Li Yiguang (Cranfield University)</i>
<b>1430</b>	Experimental Characterization of Compressive Properties of Microwave Cured GFRP Prepreg Composites <i>Dr Sunil Chandrakant Joshi (Nanyang Technological University, Singapore)</i>	Enhancing Engine Performance Diagnostics For In-Service F110-GE-129 Engine <i>ME6 Pang Yeow Wei (Republic of Singapore Air Force)</i>
<b>1500</b>	<b>Tea Break</b>	<b>Tea Break</b>
<b>1530</b>	Airworthiness Certification of Under-slung Operations of the Cable Car Rescue Cage <i>Mr Brian Wong, ME3 Jonas Yap (Republic of Singapore Air Force)</i>	Aviation Propulsion Technologies in the 21st Century <i>Mr John Quinn (GE Military Systems)</i>
<b>1600</b>	X2 Technology Development Update <i>Mr Matthew Tarascio (Sikorsky Aircraft Corporation)</i>	Recent Progress In Pulse Detonation Engine at NUS <i>Dr Li Jiun-Ming (Temasek Laboratories, National University of Singapore)</i>
<b>1630</b>	Developments in UAV Aerodynamics at DSO National Laboratories <i>Mr Chen Weisheng (Defence Science Organisation, National Laboratories)</i>	Adapting High Temperature Gears & Gearbox for Aerospace & Space Applications <i>Mr Pradeep Dass (Space Engine Systems Inc)</i>
<b>1700</b>	Challenges in Aero-Certification of A244 Light Weight Torpedo <i>Mr Li Zhike (Defence Science &amp; Technology Agency)</i>	Green Jet Biofuel Production for Jet Engine Application <i>Dr Hamid Saeedipour (Republic Polytechnic)</i>

Track 3 UAV / Network Centric System	Track 4 Avionics	Track 5 Aviation Training / MRO
Architecting Integrated System Health Management for Airworthiness <i>ME5 Kerwin Teong (Republic of Singapore Air Force)</i>	How Fifth Generation Information Fusion Is Transforming Air Superiority <i>Mr Randall M. Wolfe (Lockheed Martin Aeronautics)</i>	Presentation by <i>Ms Margaret (Peggy) Gilligan (Federal Aviation Administration)</i>
Spider- MAV Swarm <i>Mr Aswin Thomas Abraham (HOPE Technik Pte Ltd)</i>	Alternatives to GPS for Precision Aiding of Inertial Navigation System <i>ME5 Eng Kwee Guan (Republic of Singapore Air Force)</i>	Self-healing Technology for Aircraft Composite Structure Repair <i>Dr Hamid Saeedipour (Republic Polytechnic)</i>
UAV Surveillance Over Dense Cluttered Region <i>Mr Vengatesan Govindaraju (National University of Singapore)</i>	Modern Approaches to RFC <i>Mr Reuel Manela (Elbit Systems)</i>	Adaptive Machining for Efficient Manufacture and Repair of CFRP Components <i>Dr Claus Bremer (INNOSOL BCT Pte Ltd)</i>
<b>Tea Break</b>	<b>Tea Break</b>	<b>Tea Break</b>
Design & Experiments of Autonomous Formation Flight of Multiple UAVs <i>Dr Fang Liao (National University of Singapore)</i>	Optimisation of Pilot Resources via Avionics Integration of 3D Audio <i>Mr Morten Weise Schousen (Terma Airborne Systems), Major Hans Peter Bagger (Royal Danish Air Force)</i>	Integrated Live, Virtual and Constructive Training (I-LVC) <i>Mr John Schwering (Boeing)</i>
Challenges to Implement ATOL for UAV Operations <i>Mr Freddy Ng (Defence Science &amp; Technology Agency)</i>	Sense and Avoid - The Global Challenge <i>Mr Omer Regev (Israel Aerospace Industries)</i>	Immersive Technologies in a Virtual Aircraft Maintenance Training Environment <i>Mr Christopher P. Giordano (The DiSTI Corporation)</i>
Development of Mini-Synchropter UAV and Fluid-Structure Interaction on Intermeshing Blades <i>Mr Liew Hui Sing (Singapore Polytechnic), Dr Sutthiphong Srigrarom (University of Glasgow Singapore)</i>	Airbus Helicopter's New Adaptive Cockpit Simulator For Research Development & Flight Crew Familiarization <i>Dr Dirk Strassacker (Airbus Helicopter)</i>	