

0800 **Registration & Coffee / Tea**

0900 **Opening Session**

Welcome Address

ME8 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 Ng Chee Khern
Permanent Secretary (Defence Development), Ministry of Defence,
Singapore

0925 **Speech by the Distinguished Guest Speaker**

Prof Quek Tong Boon
Chief Defence Scientist, Ministry of Defence, Singapore

0945 **Speech by the Special Guest Speakers**

Maj Gen Thomas J. Masiello
Commander Air Force Research Laboratory, United States of America

Dr Bicky Bhangu
Director Singapore, Rolls-Royce Singapore Pte Ltd

1025 **Tea Break**

1055 **Plenary Session**

Dr Ken Anderson
Chief, Aerospace Division, Defence Science and Technology, Australia
'Innovation Opportunities in Defence Aerospace Research'

Mr Philippe Gourdon
Vice President, Digital & Maintenance Data Services, Airbus Customer
Services
'Enhancing Productivity in Maintenance – Airbus Maintenance Mobility'

Mr Antonio Alves
Senior Manager, Customer Solutions Implementation, Boeing Jeppesen
'Innovative Digital Technology in Airline Operations'

ME6 Leong Wai Kiat Chris
Republic of Singapore Air Force
*'Towards a New Safety Assurance Method for Complex Safety-Critical
Systems' (Video Presentation)*

1235 **Lunch**

SATEC 2016 CONFERENCE PROGRAM

Session Timing	Track 1 UAV / Aerodynamics	Track 2 Avionics / Mission Systems
1400	System Architecture of Small Unmanned Aerial System for Flight Beyond Visual Line of Sight <i>ME5 Seah Kwee Siam (Republic of Singapore Air Force)</i>	Trends and Challenges in Integrated Communication Navigation and Surveillance (CNS) Systems <i>Dr Anoop Kumar Krishna (Airbus Group Singapore Pte Ltd)</i>
1430	Structural Health Monitoring of Large Structure Using Unmanned Aerial Vehicles <i>Prof Chiu Wing Kong (Monash University)</i>	Integration Innovation: Enterprise Open System Architecture <i>Mr Ashmun Travis (Lockheed Martin Aeronautics)</i>
1500	Implementation of Modulated Blade Spacing in Rotorcraft UAVs <i>Mr Abhishek Paraswarar Harikrishnan (Nanyang Technological University, Singapore)</i>	TruNet: Redefining Network Centric Operations Through Adhoc Networking Software Defined Radios <i>Mr Cameron McDonald (Rockwell Collins)</i>
1530	Tea Break	Tea Break
1600	Piezoceramic Materials for Energy Harvesting on 3D Printed Unmanned Aerial Vehicles: A Feasibility Study <i>ME4 Ng Jun Hao Nicholas (Republic of Singapore Air Force)</i>	Electronic Warfare Technologies for Aircraft Integration <i>Mr Reuel Manela (Elbit Systems EW & SIGINT, Elisra)</i>
1630	Flow Separation Control Using Nanosecond Pulsed Plasma Actuators <i>Dr Cui Yong Dong (Temasek Laboratories, National University of Singapore)</i>	Missile Autopilot Design: Sugeno Fuzzy Modelling, State-Space Observers and Kalman Filters <i>ME5 Tan Wei Hong Lawrence (Republic of Singapore Air Force)</i>
1700	Flow Field of Flapping Monarch and Swallowtail Butterfly-like Wings <i>Dr Sutthiphong Srigrarom (University of Glasgow, Singapore)</i>	Optimisation of Satellite Communications Antenna's Elevation Pointing Angles Range for Air Platforms <i>Mr Ong Sung Nann Gary & Team (Defence Science and Technology Agency)</i>
1730	Downwash Reduction of Underslung Loads <i>Ms Melissa Nicole Teoh Jin-Li & Team (Defence Science and Technology Agency)</i>	Head-Up Vision of the Future <i>Mr Steve Paramore (Rockwell Collins)</i>

Track 3 Structures	Track 4 Airworthiness / Propulsion	Track 5 MRO / Aviation Training
Soft Actuators and Soft Robots with Applications to Aerospace Engineering <i>Dr Zhu Jian (National University of Singapore)</i>	The Evolution of Military Airworthiness in Europe <i>Mr Juan M. Roman (Airbus Defence and Space)</i>	MSG-3, Leveraging Commercial Aviation Practices to benefit Defense Platforms <i>Mr Mathew K. Fay (Boeing Military Aircraft)</i>
An Insight into Magnesium Technology for Weight Critical Applications <i>Dr Manoj Gupta & Team (National University of Singapore)</i>	Diagnostic, Prognostic, and Health Management Systems and Advanced Algorithms for Optimal Value <i>Dr Gregory Hagen (United Technologies Corporation, Pratt & Whitney)</i>	3D Printing – An Innovative Technology Shaping the Future of Aviation <i>Dr Jorg Rissiek, Satair Group</i>
Qualification of Additively Manufactured Thermoplastics for Aviation and Space Applications <i>Mr Phillip Keane & Team (Nanyang Technological University, Singapore)</i>	High Altitude Modified Conventional Turbine Engines <i>Mr Pradeep Dass (Space Engine Systems Inc)</i>	An Integrated Architecture of Live, Virtual Constructive and Automated Elements for Experimentation and Training <i>Mr Shawn Goodfellow (Rockwell Collins)</i>
Tea Break	Tea Break	Tea Break
Innovative Thin Ply Thermoplastic Composite for Improved ILFT Properties <i>Mr Bhudolia Somen Kumar & Team (Nanyang Technological University, Singapore)</i>	Innovations in Engine Technology <i>Mr Mark Peason (General Electric Aviation)</i>	Using Immersive Virtual Reality for Aerospace Maintenance Training <i>Dr Chong Chee Leong & Team (Aviation Virtual Pte Ltd)</i>
Healing Technology for Aircraft Composite Structure Repair <i>Dr Hamid Saeedipour (Republic Polytechnic)</i>	Effect of Pre-coat Grit Blasting Process on Cold Spray Coating Properties <i>Mr Koh Pak Keng (Singapore Institute of Management)</i>	Live 3D Visualization: Next step in Aircraft Inspection and MRO Analytics <i>Mr Roger Kong (Kalibre Group)</i>
The Art of Forensic Engineering in Aerospace Failure <i>Ms Judy Goh Zhudi (MATCOR Technology & Services Pte Ltd)</i>	Tomographic Reconstruction of Supersonic Jet by Using Background Oriented Schlieren <i>Ms Nandhini Raju & Team (Nanyang Technological University, Singapore)</i>	Understanding Return on Investment and Cost Drivers for Aircraft Virtual Maintenance Trainers <i>Mr Stephen A. Jackson & Team (DiSTI Corporation)</i>
Advanced Ceramics Reinforced Aluminium Metal Matrix Composites For Thermal Management <i>Mr Vadugappatty Srinivasan Dharun (Nanyang Technological University, Singapore)</i>		