

**PREFACE**



The Republic of Singapore Air Force, Air Engineering and Logistics Department (RSAF, AELD) and the Singapore Institute of Aerospace Engineers (SIAE) warmly welcome all participants to the Singapore Aerospace Technology and Engineering Conference (SATEC) 2020. The theme for this year is Transforming Aerospace Through Innovation, focusing on the innovative use of technology to meet new and evolving challenges in the aerospace industry.

We are honoured to have Mr Joseph Leong Weng Keong, Permanent Secretary (Defence Development), Ministry of Defence, Singapore, as our Guest of Honour, as well as Mr Bruno Sainjon, Chairman of French aeronautics, space and defense research lab ONERA, Professor Jonathan Cooper FRAeS, President of the Royal Aeronautical Society (RAeS) and Mr Terence Emmert, Principal Deputy Director of Defense Research and Engineering for Advanced Capabilities (PD, DDRE(AC)) as our Distinguished Guest Speakers.

This morning we are also joined by Plenary Speakers, ME7 Tay Gek Peng, Deputy Head Air Engineering & Logistics (Supply Chain Engineering & Plans), RSAF, Professor Kirill Sypalo, General Director of the Russian Central Aerohydrodynamic Institute (TsAGI) and Professor James Wang, Director of eVTOL Research and Innovation Centre, Nanyang Technological University (NTU).

More than 30 speakers from the military, industry and academia will share on their recent work during the afternoon breakout sessions. The presentations span a wide range of aviation topics, ranging from Structures and application of Additive Manufacturing to development of Unmanned Aerial Vehicles (UAVs) and Industry 4.0 technologies for maintenance and operations, and other advanced engineering topics like Computational Fluid Dynamics. We also have a dedicated session to showcase some of the work done by our Air Force Engineers in collaboration with our strategic partners in the industry.

Through the presentations and discussions, we hope to spur further interest in R&D on the various applications to the aerospace industry. We believe the conference will enhance the intellectual capital of the aerospace industry and promote greater understanding and cooperation between the military, aviation companies and institutions.

Our appreciation goes out to all our sponsors, partners and participants who have contributed towards the success of the conference. We are confident that SATEC 2020 will be an enjoyable, engaging and fulfilling experience for you.

Yours Sincerely,



ME7 Timothy Yap Soon Haw  
Head Air Engineering & Logistics  
Republic of Singapore Air Force



Mr Lim Yeow Khee BBM  
Hon F.SIAE, FRAeS, A/Prof(Adj) NTU  
President, SIAE