

**Association of
Aerospace Industries
(Singapore)**

AAIS Updates: 6 July 2021



ASPIRE Week 2021 - Careers in Aerospace

Jointly organised by Neo Aeronautics, Science Centre Singapore, Singapore Institute of Technology, and supported by AAIS and the Institution of Engineers Singapore, ASPIRE Week took place from 14-20 June 2021. We highlight with appreciation, our members who contributed towards inspiring students to careers in Aerospace:

- AAIS Panel of Experts: Robin Thevathasan and Chow Kok Wah
- AAIS Management Committee: Ian Lam of Schaeffler Aerospace
- AAIS members: Shawn Lee of Airbus and Rajarshi Maiti of Rolls-Royce
- SG UAS Community members: Hon Lung Chu of Volocopter, Nicolas Ang of F-drones and Scottz Lip of Ngee Ann Polytechnic

**ASPIRE
WEEK**
2021
14 - 20TH JUNE

[View recordings](#)

Highlights

Applications of AI in Aerospace (Part 2)

As the latest innovation to be applied by the industry, Artificial Intelligence (AI) may well be unprecedented in impact. In this final session (17 Jun 2021) of a two-part series on 'Applications of AI in Aerospace' Dr Cyrille Schwob (Head of Technology, Asia-Pacific at Airbus) shared how Airbus has applied AI to analysis of satellite imagery to factory

operations. Ms Michelle Yeo (Co-founder, Business Ops and Strategic Development at DATAVLT) introduced the concept of Continuous Intelligence and demonstrated a use case of AI/CI for predictive maintenance of aircraft engines.



APPLICATIONS OF AI IN AEROSPACE (PART 2)

Organised by:



Association of
Aerospace Industries
(Singapore)

17 Jun 2021

Speakers:

Cyrille Schwob
Head of Technology, Asia-Pacific
Airbus

Michelle Yeo
Co-founder,
Business Ops and Strategic Development
Data VLT

[View Recording](#)

Industry update & getting ready for the restart

The International Air Transport Association (IATA) represents some 290 airlines comprising 82% of global air traffic. One of its key priorities has been to work with governments to complete roadmaps to reopen borders to travel.

On 1 July 2021, Ian Lorigan of IATA Asia Pacific provided an update on the impact of COVID-19 on the aviation industry from both the global and Asia Pacific perspective. He also shared the role IATA has been playing in support of industry players, governments and travellers during this pandemic period and in preparation for the restart.



Industry Update and Getting Ready for the Restart

Date : 1 July 2021

Time : 11 am – 12 pm

SPEAKER:

Mr Ian Lorigan
Regional Director, Distribution & Payment
Financial Settlement & Distribution Services
International Air Transport Association Asia Pacific

MODERATOR:

Mr Desmond Goh
Member of AAIS Management Committee
Managing Director, Asia Pacific
Eaton Aerospace

[View Recording](#)

Discount on data subscriptions for business planning

Having access to accurate data for sense-making and business planning is important, particularly as the industry looks ahead to chart its recovery. AAIS is pleased to share that Cirium, a global aviation data analytics company, is offering eligible AAIS members a 15% discount off data subscriptions for a limited time. To subscribe please contact Ms Shyanne Chen at shyanne.chen@cirium.com and identify yourself as an AAIS member.

More information on the tools used by aerospace players can be found below.


[Dashboard](#)[Fleet Analyzer](#)

Upcoming Industry Activities



Powder Bed Fusion & Directed Energy Deposition AM for Aerospace

Presented in cooperation with BeAM Machines

 Jul 8, 2021
(4 PM - 5 PM)
(GMT+8)

From aircraft and helicopter parts to engines and turbines, Additive Manufacturing (AM) is able to improve part performance, and to bring benefits such as material reductions, weight minimization, reduced assembly, and a faster time-to-market. In particular, it has the potential to meet challenging low-volume production targets.


While AM has been largely limited to noncritical parts, advancements in technology will allow the transition of structural parts to AM, and for critical damaged parts to be repaired. In this webinar, we will focus on two metal AM technologies that are making inroads in Aerospace applications - Powder Bed Fusion (PBF) and Directed Energy Deposition (DED).

PBF shares the layer-by-layer fabrication approach of other AM methods, but requires minimal support structures, allowing for more complex geometries to be produced. An example is the internal cooling channels of turbine blades. DED involves a focused energy source to locally melt feedstock material. Multi-axis deposition is possible and DED is suited to Aerospace manufacturing, coatings and repairs of high-value aerospace components such as turbine blades, blisks and engine combustion chambers.

(photo credit: BeAM)

[Learn more](#)[Register](#)

Security of Aerial Cyber-Physical Systems

 Jul 13, 2021
(11 AM - 12 PM)
(GMT+8)

Drones are playing an increasing significant role in society, from transport to delivery and mobility. They have become an important asset and tool for organizations looking for better and safer ways to get things done.

However, there are risks associated with these 'flying computers'. Drones collect, store and transmit data (video, audio, GPS telemetry) over wireless communications to devices and in some cases, the unprotected cloud. Unlike physical computers where assets can be kept in a secure room behind layers of physical security, drones are more susceptible as they are remote and can be autonomously controlled without any human operators nearby. Data can be intercepted in various ways during flight and the drone itself can also be taken down via multiple means, exposing potentially sensitive data to attackers.

To fully realize the positive capabilities of drones, there needs to be a focus on ensuring security. In this webinar, we will look at the cyber and physical security of drones, their vulnerabilities and solutions to better secure these "aerial cyber-physical systems". Join us if you are planning to use drones in your business, have a commercial drone programme or want to be part of the drone-ecosystem of the future.

[Learn more](#)[Register](#)

AI and Ethics in Aviation



Jul 26, 2021
(4 PM - 5 PM)
(GMT+8)

It is now widely recognised that artificial intelligence (AI) offers new perspectives to businesses across many industries. However, the issue of ethical use of AI and data remains a highly controversial topic that could impact the adoption rate. The controversy often stems from the heightened safety concerns and complexity of AI operations, particularly in the aviation industry.

The European Union Aviation Safety Agency (EASA) has raised four major questions for introducing AI in aviation. They are:

- How to establish public trust in AI-based systems;
- How to integrate the ethical dimension of AI (transparency, non-discrimination, fairness, etc.) in safety certification processes;
- How to prepare the certification of AI systems; and
- What standards, protocols, and methods we need to develop to ensure that AI will further improve air transport safety.

To effectively harness the power of AI in the aviation sector, the industry should start to develop and adopt an AI ethical framework. In this event, our speakers will share their perspectives on the responsible application and the social values of AI in aviation for the future.

[Learn more](#)[Register](#)

Aerospace Partners' Golf Tournament 2021

Sign up for a fun day with friends and contribute to a good cause



Aug 20, 2021
(GMT+8)



Tanah Merah Country...
Singapore

After a hiatus of a year, APGT will be held this year on 20 August 2021 at the Tanah Merah Country Club (Garden Course). We are all eager to get on the green with friends again! To take into consideration current safe distancing measures, there will be a change to the format, and there will be no networking dinner. As before, net proceeds will go towards supporting our chosen beneficiary, Cerebral Palsy Alliance of Singapore.

To participate, please download and complete the Participation Form and submit with payment.

Sponsors are welcome! Please contact Margaret at margaret@aaais.org.sg.

Upcoming Courses

AS 9100:2016 Internal Auditor Course

Date: 22 & 23 Jul 2021 **(Confirmed)**

Type: Classroom Learning

This course provides auditors with a full understanding of the global aerospace standard and skills to undertake effective audits within their organisation - based on AS 9100 Rev D (QMS – Requirements for Aviation, Space and Defense Organisations).

[Find out more](#)

Measurement System Assessment (MSA)

Date: 2 & 3 Aug 2021

Type: Classroom Learning

This course is particularly relevant to personnel involved in quality assurance, process control and improvement activities. It trains participants to interpret the types of variations influencing the measurement system performance, conduct Variable and Attribute Measurement System Studies, etc.

[Find out more](#)

Introduction to Pyrometry AMS2750F

Date: 24 & 25 Aug 2021

Type: Classroom Learning

This course offers a comprehensive discussion on the current pyrometry requirements for heat treatment equipment based on SAE's AMS2750 specification. It will provide information of latest changes to the requirements detailed in latest revision F of AMS2750.

[Find out more](#)

Certified Quality Engineer for Aerospace (CQEA) **2nd intake**

Date: From 14 September 2021

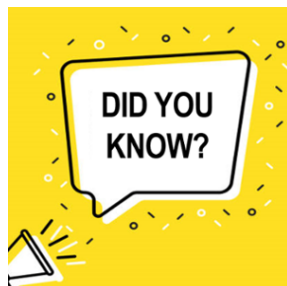
Type: Classroom Learning

Jointly organized by AAIS and SQI, this course will equip participants with a complete set of tools and techniques for control and improvement of product quality, reliability and safety for application within the aerospace industry.

[Find out more](#)

[View All Upcoming Events](#) | [View All Training Courses](#)

Explore our Services



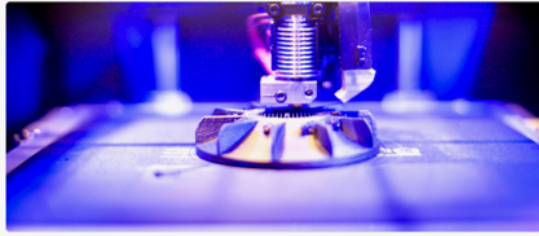
You can keep track of all your registered events without having to look for confirmation emails in your Inbox!

- After creating your account on our CRM platform, you will be able to login and view all your registered events on one page.

My Registered Events

08
Sep

Tue 10:00 AM - 11:30 AM
Upcoming



Development of Cold Spray Additive Manufacturing in Aerospace & Defence

Association of Aerospace Industries (Singapore)



[View Event](#)

Note: To create an account, go to
<https://aais.glueup.com/register/by-email/> .



Day Pass for Runway21 Serviced Office

Need a temporary workspace at Seletar Aerospace Park?

You can now purchase a day pass for Runway21 serviced office at JTC Aviation Two Business Centre, subject to a limited capacity.

JTC Business Centre

**ENJOY 50% DISCOUNT* ON ALL
MEETING ROOM BOOKINGS**

*Valid for room usage up to 31 December 2021

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