



**ROYAL
AERONAUTICAL
SOCIETY**
AUSTRALIAN DIVISION
SYDNEY BRANCH

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NEWSLETTER

‘Saving Connie – A Journey of Innovation and Determination’

Date: **Wednesday 29th August, 2018**

Time: **18:00 for 18:30 hours**

Venue: **University of New South Wales
Ainsworth Building J17
First Floor Room 202**

Speakers: **John Vincent CEng FRAeS**

To view map please click/copy and paste into your web browser the following:
www.facilities.unsw.edu.au/sites/all/files/KENC%20Campus%20Map_5.pdf



Profile: John has extensive airline engineering and maintenance experience over a professional career spanning more than 40 years, including more than 25 years in executive, general and accountable airworthiness management roles in large airline Engineering and Maintenance organisations. He is an Aeronautical Engineer, having worked in airline technical services (structures and systems), aircraft performance, fleet assessment and aircraft acceptance/delivery roles. He has filled senior engineering, maintenance, fleet development, safety, quality and risk management roles including holding various National Aviation Authority (CASA) approvals and has led the Engineering and Maintenance businesses of Air Pacific in Fiji and Ansett Australia and Qantas Airways Ltd in Australia. He is Chairman of the Board of the Qantas Foundation Memorial Ltd (parent company of Qantas Founders Museum), Past-President of the Royal Aeronautical Society Australian Division Inc and Adjunct Professor with the School of Aviation, University of NSW. He is now an executive consultant providing services to the aviation and broader engineering communities.

Synopsis: Nearly four years after Qantas Founders Museum acquired a distressed Lockheed Super Constellation aircraft in Manila, Philippines, the external restoration of the aircraft to the original Qantas livery in Longreach, Central Western Queensland has just been completed.

The Museum successfully bid for and acquired the Super Constellation from the Manila International Airport Authority in September 2014 after it had lay abandoned for 25 years, exposed to the severe tropical environment. Over two and a half years, with the support of Qantas Engineering and a devoted team of volunteer engineers and supporters, local aviation trainees and companies, the aircraft was extracted from its mud encrusted position; made safe and secure; then disassembled into its major components and thoroughly cleaned; all in the open fields of Manila Airport. With further funding becoming available, these oversized components were transported in dead of night by road to the Manila sea-front; by ship from Manila to Townsville, then by road to Longreach, arriving in May 2017. Since then volunteers, contractors and Qantas specialist engineers have been working in sometimes trying conditions in the open at Longreach Airport to prepare and restore the exterior of the aircraft. This has included replacing corroded, damaged and missing structure, reassembling the aircraft and repainting it in the Qantas Super Constellation livery. The livery details were provided from original Qantas 1950's drawings, sourced and reproduced by Qantas' Curator and Engineering technical staff. The initial purchase price was small in comparison to the total out-of-pocket cost plus the substantial value of the volunteers' time and labour. Funding came from Museum operational surpluses, the Commonwealth and Queensland governments, Qantas and an array of corporate and individual donors.

2018 Committee: David Cox (Chair), David Adkins (Vice-Chair), John Vincent (Secretary), Jeff Lock (Treasurer), Ross Barkla, Ben Flynn (Syd Uni Student Rep), Capt Brian Greeves, Ashan Karunakaran (UNSW Student Rep), Zoren Lui, Ying Luo, Peter Marosszeky, Bryan Stade, Muddasir Tahir, Henry Thai. Committee Supporters: Matthew Coutts & Timothy King.

Editor: Jeff Lock (jeff.lock@bigpond.com)

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John will present a photographic history of the last four years together with descriptions of some of the greatest challenges and how the innovation and determination of the project team, volunteers, supporters and contractors overcame all the odds, including the risk of cobras in the bushes!.

About Qantas Founders Museum

Qantas Founders Museum is a not-for-profit, membership-based, registered charity; initiated by the people of Central Western Queensland and is independent of Qantas Airways. It tells the story of Australia's national airline, Qantas, and how it began in Western Queensland in 1920. The Museum is guided by the spirit of its Founders to sustain and reflect their passion, determination, drive, dedication to excellence and innovative spirit. It is located in Longreach Queensland and has an annual visitation of 43,000 people who can enjoy close-up encounters with a variety of exhibits, interactive displays, artefacts and aircraft including Qantas' National Heritage Listed Hangar of 1922, Qantas' first Boeing 707, an original Qantas Boeing 747, an original Qantas DC3, a Consolidated Catalina flying boat and replicas of early-era aircraft together with the Lockheed Super Constellation.

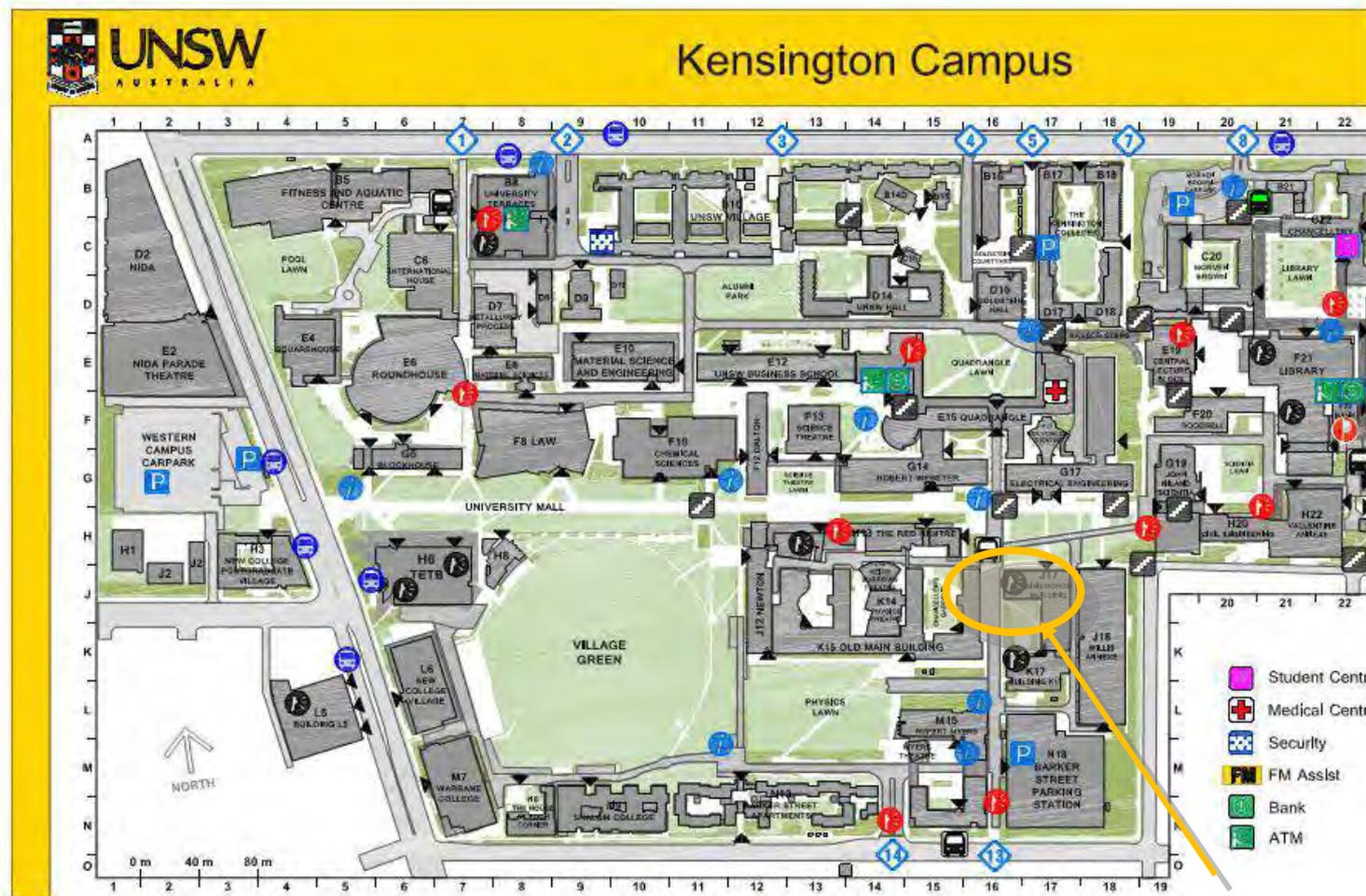
To donate to the museum and its projects, go to the Qantas Founders Museum website donation page at: <https://qfom.com.au/donate-to-our-museum/> and follow the links or contact the museum by phone on: 07 4658 3737 or email: info@qfom.com.au.

Agenda

- 18:00 Hours:** Registration | Welcome tea & coffee
- 18:30 hours sharp:** Presentations by John Vincent
- 19:30 Hours:** Q & A
- 19:45 Hours:** **Light supper** (pizzas) to enable the speaker and attendees the opportunity to mingle and to continue discussions.

Parking: Limited parking is available in surrounding streets with paid parking within the Uni of NSW car park tower, entry from Barker Street. Please observe parking restrictions and allow time to drive to the University of NSW, park and walk to the venue. (Refer to map and also www.facilities.unsw.edu.au/sites/all/files/KENC%20Campus%20Map_5.pdf - ref J17)

Location: Building Name: Ainsworth Building First Floor Room 202 Building Code: J17



Public Transport: Regular buses (391, 392, 393, 394, 396, 397, 399, M10) leave from outside Museum train station in Liverpool Street, and the 395 and M50 in Elizabeth St, opposite Central Station. Please allow time to travel by public transport, including waiting time, and time to walk to the venue from the UNSW bus stops. There are a number of other buses such as the 400 and 370 that travel to and from suburbs on the outskirts of the CBD and stop at the UNSW. Please refer for further details: www.sydneybuses.info/routes/timetables-route-maps

NOTE: Due to the building works associated with the implementation of the new tram system delays both, driving and using Sydney buses, will be experienced along Anzac Parade and all roads around the perimeter of the University. Please add an extra 45 minutes to your normal travel time to the University of New South Wales.

RSVP: Whilst attendance is free - registration for the evening **is required**. Please register by clicking on/copying and pasting into your URL this link: <https://raesaug18.eventbrite.com.au> Your registration will be confirmed by email with an attached ticket. **Please print the ticket and present the ticket at the door. Please note:** Non members should enter the code **NM** if requested to enter a RAeS membership number. Any member who does not have access to the internet can send a letter to Mr Jeff Lock, 4 Hillcrest Place, North Manly NSW 2100 with your name (plus names of accompanying persons), membership number or state 'Friend' if you are a Friend of the Branch, and phone number.

Closed Member Only Group on Facebook: Sydney branch is live video streaming our monthly branch lectures. Watch lectures live or at a later time, at the "RAeS - Sydney Branch - Members Only" group within Facebook. Please note that this service is only available to financial members of the Royal Aeronautical Society.

The 60th Sir Charles Kingsford Smith Memorial Lecture and Annual Branch Dinner

When: **Wednesday
7th November, 2018**

Time: **18:00 hours**

Speaker: **Vince Di Pietro FRAeS
Vice President and Chief Executive
Lockheed Martin Australia and New
Zealand**

Vince has titled his presentation:
**"Fulfilling the Altair vision: the
perennial tyranny of distance and
time"**

Venue: **Powerhouse Museum
500 Harris Street, Ultimo**
(See details and map)



This Prestigious
Lecture and following
Annual Branch Dinner
is proudly sponsored
by:



and



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Sir Charles Kingsford Smith MC, AFC

Born 9 February 1897 in Brisbane, Sir Charles Kingsford Smith was a renowned Australian aviator, known for being the first to complete a non-stop flight across the Australian main land and the first to complete a Trans-Pacific flight from the United States to Australia amongst his many achievements.



Biography: Vince served in the Royal Australian Navy for 40 years. His naval career included flying operations and leadership roles in aviation; squadron, shore and joint commands; education; diplomacy; safety and risk management; and system safety. He holds a Master of Arts (Strategic Studies) from Deakin University. He was awarded the Conspicuous Service Cross in 2007 for outstanding achievement as Director General Navy Certification, Safety & Acceptance in Navy Systems Command. On promotion to Commodore he was appointed Australia's Naval Attaché to the United States and his work as Naval Attaché was recognised by the United States with the award of the Legion Of Merit (Officer Division) by the Secretaries of Defence and US Navy.

On return to Australia he was Director-General Navy Capability Plans and Engagement in Navy Strategic Command and, from January 2013, Commander Fleet Air Arm. During his command significant recapitalization of the Fleet Air Arm's facilities and fleet occurred, including acquisition of Seahawk Romeo helicopters, operational transition of the Maritime Support helicopter, the foundations of the Helicopter Aircrew Training System, and modernisation of the RAN's aviation facilities in Nowra and WA.

Vince retired from full time service in March 2016. He was appointed as Member of the Order of Australia in 2016 for exceptional service. He is a Fellow of the Royal Aeronautical Society and of the Australian Institute of Company Directors.

Vince has been the Chief Executive of Lockheed Martin Australia since December 2016 and is leading LMA to achieve its vision to be Australia's partner of choice for defence, aerospace, sustainment and technology solutions.

The date for Vince's presentation, 7th November, 2018 is close to the in-country arrival of the Lockheed F-35 (anticipated week of 10 December).

This year is also the 90th Anniversary of Charles Kingsford Smith and Charles Ulm's 1928 trans-Pacific flight which completed in Brisbane on 9th June, 1928.



This Prestigious Lecture and Dinner is sponsored by:



Dinner Dress: Black tie or lounge suit. The Committee looks forward to your company.



Please allow time for travel using public transport, traffic delays, parking, and walking to the venue for an 18:00 hours start. To register and make payment please click on/copy and paste into your URL this link: <http://raesks18.eventbrite.com.au> Your registration will be confirmed by email with an attached ticket. **Please print the ticket and present the ticket at the door.** Anyone who does not have access to the internet or prefers to pay manually by cheque/credit card can complete the form on the last page of this newsletter and send to The Dinner Secretary, Mr Jeff Lock, 4 Hillcrest Place, North Manly NSW. (see Page 4).

The 60th Sir Charles Kingsford Smith Memorial Lecture

Powerhouse Museum details and map

The Powerhouse Museum close to Darling Harbour, Chinatown, Central Station (Sydney Terminal), Broadway bus station (Railway Square), and Exhibition Centre Sydney Light Rail Station. The 501 bus stops directly outside the Museum. For bus, train or ferry timetables and routes either phone the Transport Information Line on 131500 or go to the [website](#).

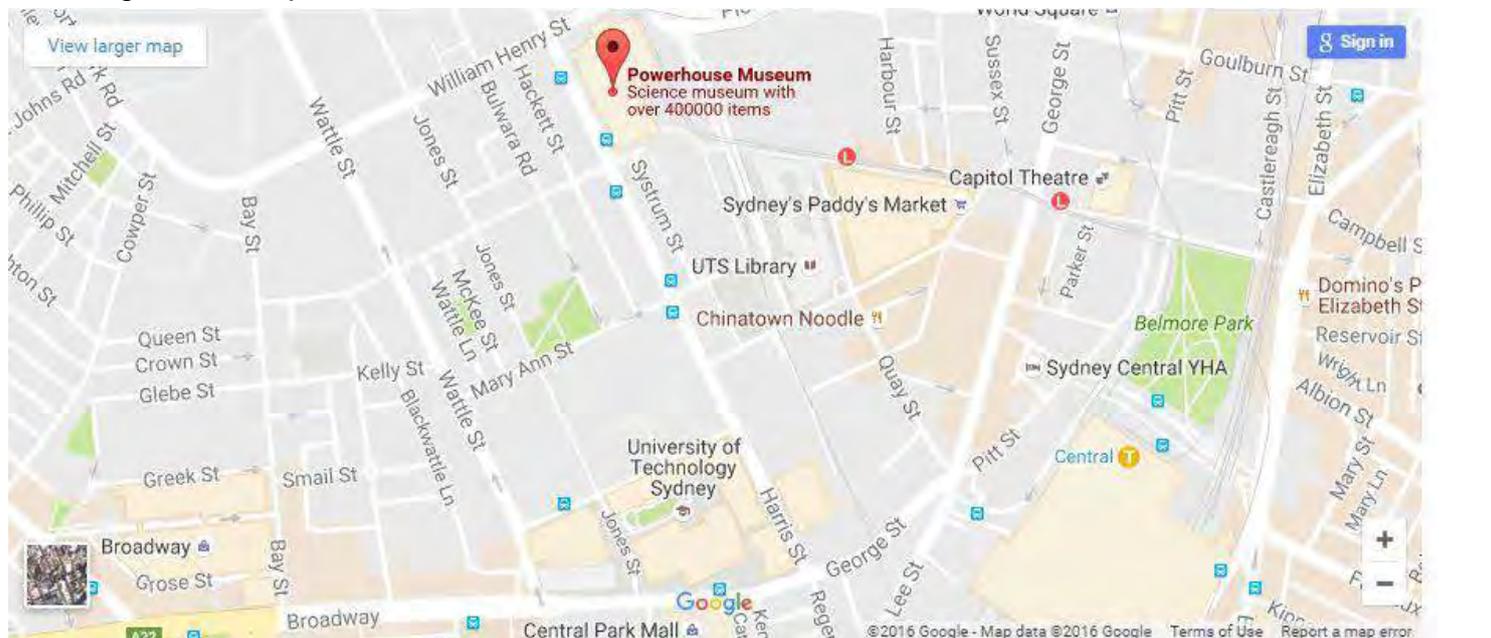
Parking: There is limited metered street parking near the museum, located on Harris St, Macarthur St and adjacent streets.

Discounted parking: Powerhouse Museum has discounted parking options with the following providers: [Wilson Parking \(adjacent to Novotel Sydney Central\)](#), 179 Thomas Street, Haymarket

Discounted \$15 all day parking is available for Powerhouse Museum visitors. To obtain the discount, your parking ticket must be validated at the designated machine located in the Museum shop before returning to the car park.

[Harbourside Car park](#), 100 Murray Street, Pyrmont. Phone 1800 PARKING (1800 727 5464)

Discounted \$14 all day parking is available for Powerhouse Museum visitors. To obtain the discount, your parking ticket must be validated at the designated machine located in the Museum shop before returning to the car park.



Aviation Safety Forum held Wednesday 27th June – Media Communique

The forum was designed to not be just another talkfest conference, but to provoke and facilitate genuine debate on the issues in focus and to generate outcomes which could contribute constructively to issue resolution and policy decision making by Government. For this reason, the forum was primarily by invitation only and observed Chatham House Rules, with no media presence. The forum was considered highly successful by attendees, including many of the most senior people in Australian civil aviation (over a dozen CEOs of businesses and/or government agencies).

There were three topics on the day:

- Flight Deck Training Standards & the Man Machine Interface
- Drones: Assimilation into Current Airspace
- Airport & Cyber Security: Weaknesses & Challenges

Some key points from the topic discussions are as follows:

FLIGHT DECK TRAINING STANDARDS & THE MAN MACHINE INTERFACE

- The seminar saw the pilot training issues as being divided into two areas: 'Today's Problems' and 'Tomorrow's Problems'.
- Today's problems relate to pilot shortages, the difficulty of attracting young people into this role and regulations that reflect training requirements for past aviation technology.
- Tomorrow's problems relate to the selection and training of pilots who can cope with and integrate with highly sophisticated automation or indeed autonomous aircraft.
- The current GA industry does not adequately prepare pilots for a future in the highly automated world. Often newly trained instructors, with minimal real world aviation experience, are training ab initio students and do not have either the experience or opportunity to pass on needed aviation experience. Regional and major airlines are taking instructors too early from the flight school environment given the recent demand.

- This gap between the training needs of professional aviation and the General Aviation industry will only continue to widen. Professional aviation colleges may also be part of the solution to this problem.
- In order to ensure that the pilots of the future meet the needs of the future flight deck, the professional civil aviation industry needs to update recruitment assessment practices to assess applicants' abilities in cognitive task analysis thus allowing them to interface with the highly automated aircraft of the future.

DRONES: ASSIMILATION INTO CURRENT AIRSPACE

- The seminar concluded that the perceived safety threat from drones was not as critical as it has been presented.
- The majority view was that industry as well as the Regulator has a significant role to play in the management of drone activity.
- Education of drone users was seen as vital and again industry can play an important role in that arena. The group's view was that the medical assessments used by Air Traffic Controllers would be appropriate for drone operators, as recommended by ICAO.
- Finally, the use of technology was seen as a key in providing solutions to the use of drones in busy air traffic environments eg geo-fencing and UTM.

AIRPORT & CYBER SECURITY: WEAKNESSES & CHALLENGES

- The industry forum agreed that the greater use of data to identify low risk passengers would enhance security. Passengers would need to "opt in" to the use of this data. This would require industry and passenger associations to work with Government to implement such a policy.
- It was also considered that security would be enhanced by the use of live background checking.
- The participants also agreed with the model of network pricing model would provide a fairer distribution of the cost burden.

Please note that these summaries and key points do not necessarily represent the opinions of airline operators, agencies or other organisations, nor even of the RAeS. They are the RAeS perception of key points of interest from the forum discussion. Andrew Neely FRAeS, President, RAeS Australian Division

Society Merchandise for Sale: Sydney branch has a selection of Society Merchandise for sale at its regular monthly meetings. Items include Society Ties, Pins, Lapel Badges, Silver Kestrel Brooches, and Mugs.



Our Sales Director, David Adkins accept cash, cheques and credit cards through PayPal.

Past Newsletters are now stored on our website: Members are advised that all Sydney Branch Newsletters since February 2012 are now stored on our website. To access this information enter our web address (www.raes.org.au) into your browser, click 'About' then 'Sydney Branch' and scroll this page to the heading 'Sydney Branch Newsletters'. Newsletters are arranged by month within each year heading.

Aerospace Websites: www.57rescuecanada.com : Follow Capt. Karl Kjarsgaard's adventures to recover Halifax bomber LW170 which is resting beneath 5000ft of water off the Irish coast;
www.adastron.com/707/updates/updates.htm : Diary of Boeing 707-138B XBA formally Qantas EBA.
www.airshow.com.au www.atsb.gov.au www.aviationmuseum.com.au - Temora Aviation Museum;
<http://boxkite2014.org/book/book.htm> - The Boxkite project.
https://en.wikipedia.org/wiki/Rolls-Royce_Trent
<http://hars.org.au/> Historical Aircraft Restoration Society
<https://herox.com/SpacePoop> The Space Poop Challenge www.powerhousemuseum.com/whatson
<https://qfom.com.au/> Qantas Founders Museum, Longreach, Qld <http://www.singaporeairshow.com/>
<https://www.youtube.com/watch?v=JGjmRRTThdk> How TIME created their new cover image with 958 drones
http://www.rbogash.com/B-52/B-52_Disassembly.html How to move a B-52 without flying it – The Final Disassembly and Transport Update for the move scheduled 3/6/2018 - with the wings split and the fuselage in final stages of prep before hitting the freeway.

Diary: **Aug 9:** UNSW Aviation Society Annual Careers Night being held in the Tyyree Room, Scientia Building (UNSW Kensington Campus) commencing 17:00 hours – refer details: www.facebook.com/events/243172316483153/

Sept 9-14: 31st Congress of the International Council of the Aeronautical Sciences, Belo Horizonte, Brazil. Refer details: <http://icas.org/media/ICAS2018CallforPapers.pdf>

Sept 12: **Women in Australia Aerospace Panel (Sharon Shields, Owner Director Comtech Aviation Services Pty Ltd, Lee de Winton, Chief Executive Officer, Sydney Metro Airports (Bankstown and Camden), plus two more panellists) – further details to be advised.**

Sept 13: AIAA 6th Annual Student Industry Networking Evening will be held at Rydges Sydney Airport – refer for details: www.aiaassb.com.au

Sept 20-22: AirVenture Australia's premier airshow will be hosted at Cessnock Airport – refer: www.airventureaustralia.com.au

Oct 1-5: 69th Annual International Astronautical Congress will take place in Bremen, Germany. Call for Abstracts is now open and closes 28 February 2018. For further details refer: <https://iafastro.directory/iac/browse/IC-18/catalog-technical-programme>

Oct 3: Lt Col Keirin Joyce MRaE, Australian Army UAS Sub-Program Manager responsible for all Australian Army UAS activities, at Sydney University, New Law Lecture Theatre – further details to be advised.

Oct 16-18: Call for Papers (close 1 July, 2018) for the 10th Asia-Pacific International Symposium on Aerospace Technology (APISAT 2018) to be held in Chengdu, China. APISAT is an initiative by the national aerospace societies of Japan (JSASS), Korea (KSASS), China (CSAA) and Australia (RAeS Australian Division). Founded in 2009, the conference has grown steadily over the past decade and is an important regional conference in the aerospace calendar. Refer details: www.apisat2018.com

Nov 7: **The 60th Sir Charles Kingsford Smith Lecture will be held Wednesday 7th November at the Powerhouse Museum, 500 Harris Street, Ultimo. The speaker will be Vince Di Pietro, Chief Executive, Lockheed Martin Australia and New Zealand. This date is close to the in-country arrival of the F-35 (anticipated week of 10 Dec).**

Nov 15-17: Aviatex - Australia's largest and most comprehensive general aviation trade show and aviation careers expo, Bankstown Airport. Refer details: www.aviatex.com.au

Dec 7: The Sydney Branch Christmas and final meeting for the year will be addressed by Mr Greg Hood, Chief Commissioner, Australian Transport Safety Bureau. Further details to be advised.

Feb 9, 2019: The fiftieth anniversary of the first Boeing 747 flight.

Feb 26-Mar 3: **AVALON 2019** - The essential aviation, aerospace and defence showcase for Australia and the Asia Pacific Region, Avalon Airport, Geelong, Victoria

July 20, 2019: The fiftieth anniversary of the first men walking on the moon.

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