



**ROYAL
AERONAUTICAL
SOCIETY**
AUSTRALIAN DIVISION
SYDNEY BRANCH

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<https://www.facebook.com/groups/RAeSSydney/>

NEWSLETTER

‘An update on aviation safety in Australia’



Speaker: **Mr Greg Hood FRAeS**

**Chief Commissioner and Chief Executive Officer
Australian Transport Safety Bureau –
Australia’s national transport safety investigation agency**

Date: **Wednesday 5th December, 2018**

Time: **18:00 for 18:30 hours (sharp)**

Venue: **PNR Farrell Lecture Theatre
J02 Darlington Campus, University of Sydney**

To view map please click/copy and paste into your web browser the following:

<http://sydney.edu.au/maps/campuses/?area=CAMDAR>

Light refreshments will be available prior to the commencement of the meeting. Attendance will attract 1.5 CPD hour

Profile: Mr Greg Hood FRAeS was appointed to the role of Chief Commissioner and Chief Executive Officer of the Australian Transport Safety Bureau (ATSB) on 1 July 2016. In his time as Chief Commissioner, Greg has overseen a number of significant transport safety investigations and report releases across the three modes of aviation, rail and maritime. He has also successfully transitioned the ATSB into its new role as the single national rail safety investigator, bringing to a close a commitment to rail reform initiated by the Council of Australian Governments in 2009.

With more than 35 years of experience across a wide range of operational, training and management roles within the civil aviation industry, Greg has been well-positioned to drive an innovation agenda at the ATSB. The ATSB’s evolution program has already seen enhancements to its world-leading practices, including streamlined operations, a multi-modal team approach to transport safety investigations and the introduction of remotely piloted aircraft to capture evidence following accidents and other safety occurrences.

Prior to his commencement with the ATSB, Greg held the role of Executive General Manager, Air Traffic Control with Airservices Australia. In this position, he was responsible for the management of over 1,300 air traffic management staff, providing services for 11 per cent of the world’s total airspace for more than four million flights annually from 28 air traffic control towers and facilities.

Greg began his career as an air traffic controller in the Royal Australian Air Force in 1980, serving at locations throughout Australia and in the Middle East. In 1990, he moved to the Civil Aviation Authority, a predecessor to what is now Airservices Australia. Greg worked in many locations across the country, and was also involved in the training of new controllers at the University of Tasmania, Launceston.

In 2002, Greg was appointed to lead the management team in Melbourne, and then, in 2005, he led the team responsible for the provision of regional air traffic services, including the operation of regional control towers throughout Australia. Greg has also been integrally involved in the implementation of major air traffic management and technology projects, such as the Australia Advanced Air Traffic System known as TAAATS, the evolution of safety management systems and the introduction of user-preferred routes and flex-tracks.

In 2007 Greg joined the Civil Aviation Safety Authority (CASA), where he held the positions of Group General Manager Personnel, Licensing, Education and Training, then Executive Manager Operations. He returned to Airservices during 2013 to take on the role of General Manager Demand and Capacity Management and was appointed as the Executive General Manager of the Air Traffic Control Group later the same year.

Greg has served on the Business Advisory Council for World Vision, is a Fellow of the Royal Aeronautical Society, a Freeman in the Honourable Company of Air Pilots, a Life Member of the Qantas Founders Museum, and past President of Canberra Philharmonic Society. Until being appointed as ATSB's Chief Commissioner, he was also a Board Member of Safeski Australia and internationally, Vice-Chair of the steering committee for the Civil Air Navigation Services Organisation's Operations Standing Committee. He has a passion for the transport industry in general and transport safety in particular. He is a glider and powered aircraft pilot.

Aviation

Australia's development as a nation through the twentieth century was closely linked to the development of the aviation industry. This industry has helped us overcome vast internal distances and geographical isolation from the rest of the world.

The ATSB is responsible for the independent investigation of accidents and incidents involving civil aircraft in Australia. The ATSB's primary focus is the safety of the travelling public. However, all accidents and incidents related to flight safety in Australia or involving Australian registered aircraft overseas must be reported to the ATSB. While the ATSB does not investigate all of these, it still needs to be notified so that the data can be recorded for possible future safety research and analysis. Please call the toll-free number 1800 011 034 to notify the ATSB of such accidents or incidents.

Australia is a member of the Council of the International Civil Aviation Organization (ICAO), which is made up of 190 countries. The ATSB has frequently assisted with international investigations, including through the analysis of flight-recorder ('black box') data.

Synopsis: Chief Commissioner Greg Hood will provide an update on the ATSB before discussing the safety outcomes from several final investigation reports. Prior to taking questions, Chief Commissioner Hood will also provide an update on some of the Bureau's higher profile active investigations.

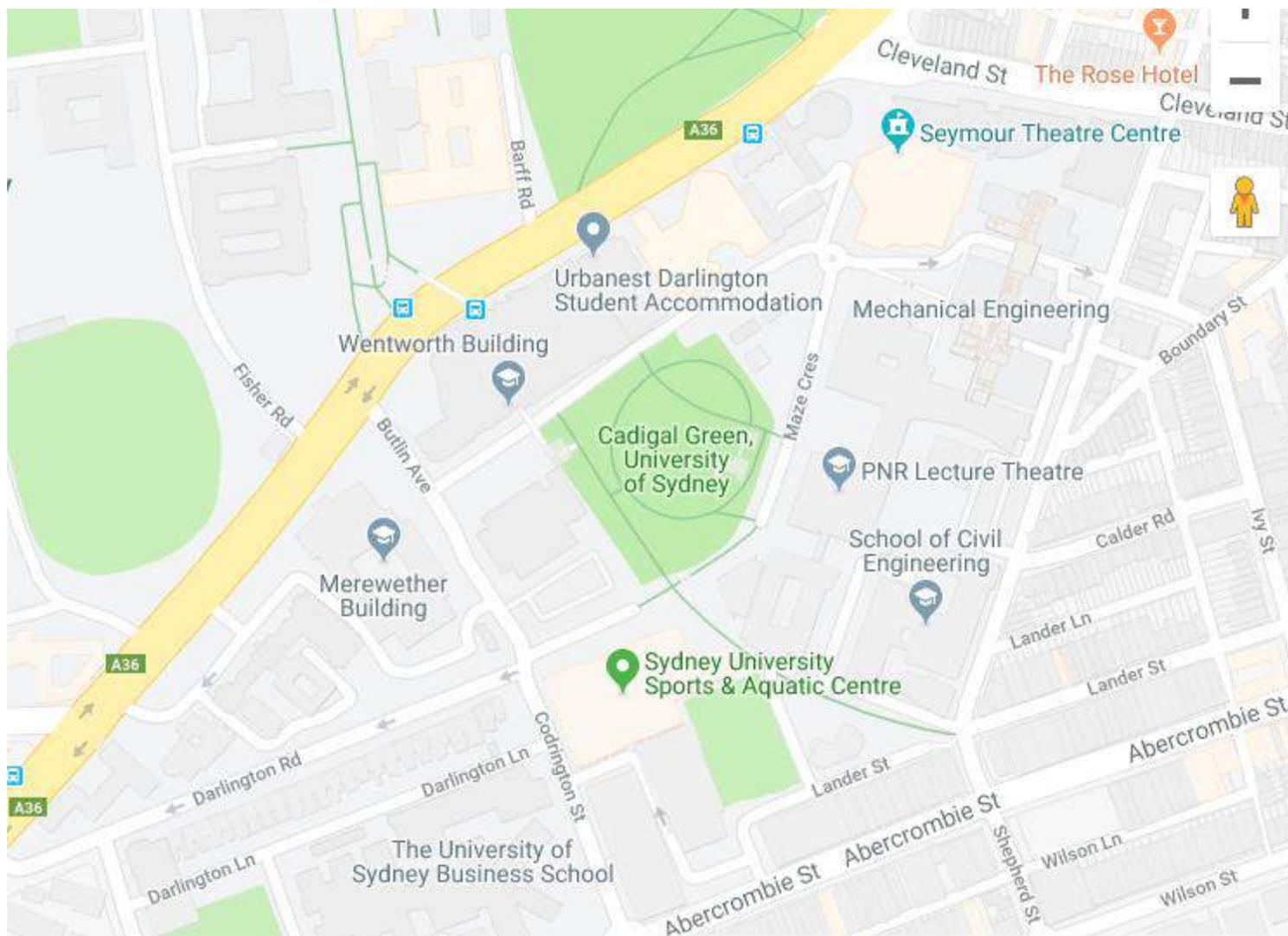
Agenda

- 18:00 Hours:** Registration | Welcome tea & coffee
18:30 hours sharp: **Presentations by Mr Greg Hood**
19:30 Hours: Q & A
19:45 Hours: **Light supper** (pizzas) to enable the speaker and attendees to mingle and continue discussions.
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RSVP: Whilst attendance is free - registration for the evening **is required**. Please register by clicking on/copying and pasting into your URL this link: raesdec18.eventbrite.com.au Your registration will be confirmed by email. **Please print the email and present it 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.

Parking: is available in the Shepherd Street multi-story car park, located on the corner of Cleveland St and Shepherd St. The rate is \$2 per hour (up to \$6 maximum), but note that only gold coins are accepted in some machines. Parking is also available in University of Sydney On-Campus Parking for \$2 per hour (up to \$6 maximum). Additionally, free parking is available in surrounding streets. Please observe parking restrictions and allow time to drive to the Uni of Sydney, park, and walk to the venue.

Public Transport: The closest train station is Redfern station, which is a 10 minute walk from the venue. From Railway Square near central station any 42X bus (e.g. 422, 426...) and the M30 will take you to the University of Sydney (on City Road). Please allow time to travel by public transport, including waiting time, and time to walk to the venue. Please refer for further details: www.sydneybuses.info/routes/timetables-route-maps



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.

NOMINATION FOR ELECTION TO THE RAES AUSTRALIAN DIVISION COUNCIL FOR 2019-2023

I hereby nominate

Grade..... Membership Number as a candidate for the Council of the RAeS Australian Division.

Proposer's Name:

Grade:..... Membership number:..... Signed:

Date: / /2018

I second the nomination

Seconder's Name:

Grade:..... Membership number:..... Signed:

Date: / /2018

I hereby accept the nomination and agree to serve on the Council if elected. If elected I hereby agree to sign a declaration stating that:

- I am not disqualified from managing a corporation, within the meaning of the Corporations Act 2001(Cth).
- I have not been disqualified by the Australian Charities and Not-for-profits Commissioner at any time during the previous year from being a responsible person (what the ACNC Act calls a responsible entity) of a registered charity.

If elected I will sign a RAeS Australian Division Governance Undertaking, and Confidentiality and Privacy Undertaking.

Nominee's Name:

Grade:

Membership Number:

Signed:

Date: / /2018

Will the nominee please supply attached to the Nomination Form the following details for the information sheet to accompany the Ballot Paper:

Full name with head and shoulders photograph, degrees and awards. Provide short biographical details including association with the Society/Division/Branch and a statement on how the Nominee plans to serve members' interests (limited to 200 words).

Nominations should be submitted on the form to the Hon Secretary Robin Stanier (20 Gouger St, Torrens, ACT 2607) before 20 December 2018. It would greatly assist the Hon Sec if the completed nomination form with attachments including photograph could also be emailed to the Hon Sec (rstanier@grapevine.com.au).

Lawrence Hargrave Award - 2019: Some nineteen years ago the Australian Division of the Royal Aeronautical Society established the Lawrence Hargrave Award to recognise achievement at all levels and in all disciplines of aerospace within Australia. The Lawrence Hargrave Award honours one of the true pioneers of flight. Hargrave's experiments with box kites at Stanwell Park near Sydney in the 1890s proved to be one of the most significant early developments in aviation.

The Award, which is presented every two years, follows in the tradition of the Society's UK-based awards which have long been regarded as the pinnacle of achievement in the aviation industry. The winner will be announced at the Australian International Airshow and Aerospace & Defence Exposition at Avalon on Tuesday, 26th February, 2019 and the Award will be presented in Melbourne at the 18th Australian International Aerospace Congress dinner.

Any Australian working in, or retired from, a discipline involved in the support of air and space flight in Australia is eligible. The nominee should have made a proven impact of significant aerospace contribution over a high proportion of their careers. Nominations shall describe in detail why the nominee should be considered with factors such as innovation, how recent the work and implications. The award can recognise individuals at any stage in their career. The nomination form can be accessed by clicking on/copy/paste into your web browser: www.raes.org.au/awards/2019-lawrence-hargrave-award-nomination A 'paper' version of the form is below.

The **closing date for receipt of such nominations is Friday 7th December 2018** which should be e-mailed to: barrycupitt@bigpond.com , or can be mailed to: Mr Barry Cupitt, 3 Tirrabeena Place, Bangor NSW 2234 – using Australia Post.

All nominations are treated in strictest confidence and proposers are asked to ensure that nominees are not advised of their nomination.

I would like to nominate (name):

Proposer's contact details (name, address, telephone/fax, e-mail)

Nominee's career history (dates, positions held, nature of responsibility):

Specific achievement/s upon which this nomination is based (in no more than 250 words describe the nominee's involvement in an operation initiative or event which provided a significant contribution to the Australian Aerospace Industry. **Please use a separate page for this résumé):**



**Complimentary Student Tickets for the 2019 Avalon Airshow
"Aerospace Student Professional" – Self-Education Opportunity**

**Registration for the 2019 Avalon Airshow –
Aerospace Student Professional (ASP) Program is now OPEN!**

The Royal Aeronautical Society in association with the 2019 Avalon Airshow organisers is continuing to provide complimentary entry to the 2019 Avalon Airshow to benefit, in particular, senior students to engage with Aerospace Industry Professionals. A special invitation is extended to "Aerospace Student Professionals" to attend the 2019 Avalon Airshow, as Accredited Trade Visitors, for one-day only and at no cost, on either the **Trade Day of Tuesday 26, Wednesday 27, or Thursday 28, February 2019.**

An "Aerospace Student Professional" is defined as any Undergraduate and Postgraduate University, or TAFE student undertaking tertiary courses throughout Australia in aerospace engineering, aviation sciences or technology or Management, who shows a keen interest in pursuing a career in the Aerospace, Aviation or related high technology Defence industries. Undergraduates who take up this invitation will be formally accredited as an "Aerospace Student Professional". This will include the issue of a distinctive badge to assist Exhibitors to identify them from other Trade Visitors.



The process to seek accreditation as an "Aerospace Student Professional"

for a nominated Trade Day have been developed by Aerospace Australia Limited and the Royal Aeronautical Society (RAeS), with assistance from Engineers Australia. Full details of this application and accreditation process is available from the Royal Aeronautical Society - Australian Division website:

<http://www.raes.org.au/eventdetails/2438/aerospace-student-professional-program-2019>

Subject to all accreditation requirements being met, this admission will provide "aerospace student professionals" with a unique self-education opportunity. This also includes access to pre-reading material (via selected website links). Additionally, accredited "aerospace student professionals" will be able to attend, at no charge, some of the conferences, symposiums and forums being conducted at Avalon on the nominated Trade Day subject to availability space as determined by the conference manager. Please note that the closing date for Registrations is Wednesday 20th February, 2019.

Deadline approaching for Avalon Innovation Awards: Australian innovators have until 30 November to submit their entry for the Avalon 2019 Innovation Awards, with \$60,000 of awards, grants and scholarships up for grabs. [Full details](#)

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.

Report on the 60th Sir Charles Kingsford Smith Lecture and Annual Branch Dinner held 7th November, 2018 at the Powerhouse Museum, Ultimo, Sydney



The 60th Sir Charles Kingsford Smith Lecture was delivered by Mr Vince Di Pietro AM 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”.

Vince navigated through the many perils, and triumphs of these early Australian pioneers of aviation. It was a tantalising story of perseverance that produced unthinkable results, results which often laid

in the dreams of many, less so the taste of reality. Weaving between the financial, and physical challenges that faced Smith and Wilkins, the audience were gripped by the ambition of these historical figures. During Vince’s research for his presentation he noted that tomorrow (8th November) was the 83rd Anniversary of Sir Charles’s passing whilst flying the *Lady Southern Cross* overnight from Allahabad India to Singapore, as part of his attempt to break the England-Australia speed record when he disappeared over the Andaman Sea in the early hours of 8 November 1935.

Vince then progressed the conversation through the many advances, indeed speedy advancements, of aerospace technologies through to the present day. He recalled the time he was on a helicopter requiring the complete physical attention of the pilots, cranks, pulleys, and a myriad of other knobs and dials in-between the pilots. More recently, the helicopters Vince was on had a number of computer screens, and no mechanical linkages between the pilot’s hands and feet, and the aircraft itself.

But what of the present day and the future? A complex architecture of interconnected systems was the order of the day. The communications between an ever-growing myriad of devices, systems, and weapons would be the basis of what may well form the defence forces and technologies of the future, and a transformative power in the industry.

Mr Andrew Neely, President, Royal Aeronautical Society Australian Division gave the speech in reply and asked the 90 attendees to join with him in thanking Vince for his presentation and Mr David Cox, Chairman of the Sydney Branch presented the 60th Sir Charles Kingsford Smith Medal to Vince.

Mr David Cox also presenting framed Fellow Certificates to the following newly elected Fellows:



David Forsyth AM FRAeS accepted the Fellowship Certificate on behalf of Mr Peter Lloyd FRAeS who was unable to attend.



Tim Gent FRAeS

Lee de Winton FRAeS, Chief Executive Officer, Sydney Metro Airports



Additionally, Mr David Cox presented ‘The Royal Aeronautical Society Australian Division and Australian Flying 2018 Wings Award’ for the Flying Instructor of the Year, Lyn Gray, from FlyOz, Cowra, NSW with her prize. Lyn has made a substantial contribution to flight training in regional NSW through her flying school FlyOz in Cowra. A strong and innovative school, FlyOz attracts both domestic and international students to the town.



Before concluding the formal presentations for the evening Mr David Cox acknowledged the presence of Mr Tom Sonter who discovered the 'Southern Cloud' on 26th October 1958 – 27 years after its disappearance during a flight from Sydney to Melbourne, on a stormy day 21st March 1931. In recognition of Tom's achievement and being the 60th Anniversary of the discovery of the 'Southern Cloud' Vince surprised everyone by presenting Tom with a framed Australian Flag which was flown on The Inaugural Flight of Australia's First F-35A Lightning II Aircraft AU-01 on 29th September, 2014, Fort Worth, Texas, USA. Vince's presentation was videoed and has been added to Facebook which is available to watch at the "RAeS - Sydney Branch - Members Only" group within Facebook. Please note that this service is only available to financial members. The transcript is also available on the website.

The Sydney Branch wished to thank the sponsors for this event –
Lockheed Martin Australia and Rolls-Royce Australia Services

Southern Cloud Discovery – 60 years on

The 'Southern Cloud Family' gathered again in Tumbarumba over the weekend 2-4 November 2018 to remember the discovery of the wreck of the ill-fated aircraft in the mountains just east of Tumbarumba on 26th October, 1958. The 'Celebration' of that discovery of course is accompanied by the sad recollection of those lost and the devastating effect on families left to mourn those whose fate remained a mystery for twenty-seven years. Missing through ill health was the discoverer of the wreckage, Tom Sonter. His presence was missed but his influence was keenly felt.



On Friday evening, 2nd November, descendants spoke at the Elms Restaurant dinner conveying very personal family recollections and appreciation of Tom's adventurous nature that led to the discovery of the 'Cloud' sixty years ago. Peter Murray from Canberra representing the Bill O'Reilly family, Julian Oldham from Brisbane, grandson of Julian Margules and Cynthia Balderstone of Melbourne, grand-daughter of pilot Travis 'Shorty' Shortridge moved the large audience greatly. With Cynthia were the pilot's great granddaughter, Leonie, and great great grandson, Jasper.

A further highlight of the evening was the presentation of some 'pieces' for the Tumbarumba Historical Society Museum including a silver cuff-link (to date the 'owner' has not been identified), bent rudder peddle (?), sundry washers, and melted metal fragments from the wreck, originally collected by Peter Russell (who trekked to the site shortly after it was discovered), who was unable to attend due to age and that he lives near Winton in outback Queensland. Peter was also an avid collector of aircraft engines from the early days of aviation. The presentation was made on his behalf by Phil Guilfoyle of Sydney.

Several weeks ago Rex and Margaret Gibb of Bobinawarra in Victoria brought to the Tumbarumba Archives three priceless letters written by 'Shorty' Shortridge whilst in the air to a young boy, Ronnie Gibb, Rex's uncle. The letters, written in the months before the crash of the Southern Cloud paint an amazing picture of a caring generous man, the excitement of a developing aviation industry and the



dreams of a young schoolboy. Ron Frew for the Tumbarumba Historical Society has turned these into a booklet *Very Best Wishes Laddie*. The booklet is available at the Tumbarumba Museum for a cost of \$4. (Email: thefrews@activ8.net.au) Rex travelled especially to launch the booklet.

Ron Frew presented a brief illustrated overview of the crash, the discovery and the history of Tumbarumba's involvement with the 'Southern Cloud Family'.

On Saturday 3rd November, twenty walkers trekked and scrambled the seventeen kilometres (return) to the crash site high above Deep Creek to remember and pay respects to those lost on 21st March, 1931 – Travis

William Shortridge (Capt), Charles Dunell (Co-pilot), Elsie May Glasgow, Clara Stokes, Hubert Farrall, Bill O'Reilly, Charles Clyde Bronson Hood, Julian Margules.

Australia makes its pick for drone fleet: Australian Defence Minister Christopher Pyne announced Friday that [General Atomics Aeronautical Systems Inc. \(GA-ASI\)](#) has been selected as the winner of its competition to supply a medium altitude long endurance (MALE) remotely piloted aircraft (RPA) to the [Australian Defence Force](#). Australia has yet to make a choice between the [MQ-9 Reaper Block 5 variant currently in production for the U.S. Air Force](#), or the [MQ-9B Skyguardian](#) (formerly known as the Certifiable Predator B) under development for the United Kingdom.



Pyne said that 12-16 air vehicles will be acquired under the ADF's Project Air 7003 Phase 1 (Armed MALE UAS) which, in the 2016 Australian Defence White Paper, was priced at between one and two billion Australian dollars (U.S. \$730 million to \$1.45 billion). The Australian government will now request pricing and availability data from the United States on Reaper variants to support future decision making on the acquisition. He said he was looking at the 2020-2021 period for initial deliveries and an entry into service in the 2022-2023 timeframe.

The aircraft will be operated by the Royal Australian Air Force (RAAF) but Minister Pyne said no decision had been made about where they will be based. The ground control segment will be at RAAF Base Edinburgh in South Australia, where the announcement was made this morning. "The government will take advice of course from the ADF about the best placing for the Reaper. Edinburgh is the most likely place because it's where we have significant investments already in this kind of intelligence, surveillance and reconnaissance and it has become the centre of our ISR capabilities in many respects," he said.

GA-ASI launched 'Team Reaper Australia,' a consortium of Australian industry partners, at the 2017 Australian International Airshow at Avalon and announced its intention to bid for Air 7003 at the show. The industry grouping has since expanded to include Airspeed, Cobham, CAE Australia, Flight Data Systems, Quickstep Holdings, Raytheon Australia, Rockwell Collins, Sentient Vision, TAE Aerospace and Ultra Electronics Australia.

Introduction of a Non Members Fee to attend monthly presentations: The Sydney Branch Committee has been considering for some time the introduction of a 'Non Members Fee' to attend our monthly presentations. It is proposed to introduce the 'Non Members Fee' in 2019 and whilst the 'Non Members Fee' will not apply for all presentations it will be clearly displayed when registering on the Eventbrite site. Initially, the 'Non Members Fee' will be \$15.00 per person and will be payable via credit cards at registration time. Should a 'Non Member' not register via Eventbrite credit card payment facilities will be available on the evening, if a fee is payable for that evening/event.

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



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

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.
<https://airandspace.si.edu/collection-objects/assembly-bio-harness-armstrong-apollo-11>

Diary: **Nov 30:** Entries close for the Avalon 2019 Innovation Awards, with \$60,000 of awards, grants and scholarships up for grabs. [Full details](#)

Dec 7: 2019 Lawrence Hargrave Award nominations close – refer pages 5 and 6 for further details.

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

Feb 20: Sydney Branch AGM – followed by a presentation by Capt Georgina Sutton, Manager Base Operations Sydney International Terminal/Check and Training Captain B787 MAICD – further details to be advised.

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

Mar 2: The Anglo-French supersonic airliner **Concorde**, the world's first supersonic airliner, completed a "perfect" maiden flight, which lasted 27 minutes, on March 2 1969. The first flight of the British-built Concorde prototype lasted 22 minutes and was made from Filton airfield near Bristol to RAF Fairford in Gloucestershire on April 9, 1969. Concorde's first supersonic test flight took place on October 1, 1969.

Mar 5: International Eminent Speaker Program 2019 (IESP2019) - Dr Fredriksson FRAeS FAIAA - through his 30 years in the aircraft industry Dr Fredriksson has had extensive assignments in scientific research at universities through cooperation on research projects in Sweden, Europe and the United States. From 2010 to 2014 he was a member of the Scientific and Technology Advisory Board to the EU Clean Sky Research Program in Aeronautics. During this period and to the present, he continues as an expert performing Annual Reviews and dedicated specialist reviewer for the Clean Sky Program.

This meeting will be a joint meeting with Engineers Australia and the Australian Society for Defence Engineering. Venue will be Engineers Australia, Level 3, 8 Thomas Street Chatswood, commencing 18:30 hours. Further details to be advised.

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

The Committee wishes you all the best for the Festive Season and the New Year



Thanks Boeing for your help – at our recent 'Workshop Strategy Day' the yearly risk assessment for the 'Next Run' identified that Rudolph was getting older and slower and the concept of breeding 'faster' reindeer was identified.

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