



**ROYAL
AERONAUTICAL
SOCIETY**
AUSTRALIAN DIVISION
SYDNEY BRANCH

FEBRUARY 2019

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PO Box 573, Mascot, NSW 2020

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

NEWSLETTER



**‘Fabric and wire to wire and plastic –
an aviation journey from winch
launching an ES 49 glider to flying
the state-of-the-art Boeing 787’**

Speaker:

**Captain Georgina Sutton FRAeS MAICD
Manager Base Operations
Sydney International Terminal
B787 Check and Training Captain
Qantas Airways Limited**

Date: **Wednesday 20th February, 2019**

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

Venue: **PNR Farrell Lecture Theatre, J02 Darlington Campus, Uni 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



The **Schneider ES49** is a two seat **glider trainer**, designed, first flown in late August 1951 and commercially produced in **Germany** but later built from plans by gliding clubs in **Australia**. A major redesign there led to the **ES49B Kangaroo**.

Profile: Captain Georgina Sutton’s aviation career kick started one sunny day at Blanchetown on the River Murray in South Australia where Georgina went for her first flight in a glider. The glider was a vintage ES 49 and the year was 1977. Fast forward to 2019 and Georgina is a Captain for Qantas flying the B787 Dreamliner.

Synopsis: Georgina will discuss her journey and the changes that have taken place in the aviation industry from gliding to general aviation, Qantas Airlines, her role as the Chief Pilot of Jetstar and the retirement of the Queen of the Skies (the 747).

Georgina has a passion for human factors, the pilot/machine interface and evidence-based pilot training to ensure pilots can



be effective members of a high functioning team. She will also discuss the challenges and opportunities in attracting more women into aviation.

Agenda:

18:00 Hours:	Registration Welcome tea & coffee
18:30 hours sharp:	Presentation by Captain Georgina Sutton FRAeS MAICD
19:30 Hours:	Q & A
19:45 Hours:	Light supper (pizzas) to enable the speaker and attendees to mingle and continue discussions.

RSVP: Registration for the evening **is required**. Please register by clicking on/copying and pasting into your URL this link: raesfeb19.eventbrite.com.au Your registration will be confirmed by email. **Please**

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 Karunagaran (UNSW Student Rep), Zoren Liu, Ying Luo, Peter Marosszky, Bryan Stade, Muddasir Tahir, Henry Thai. Committee Supporters: Matthew Coutts & Timothy King.
Editor: Jeff Lock (jeff.lock@bigpond.com) **Page 1 of 6**

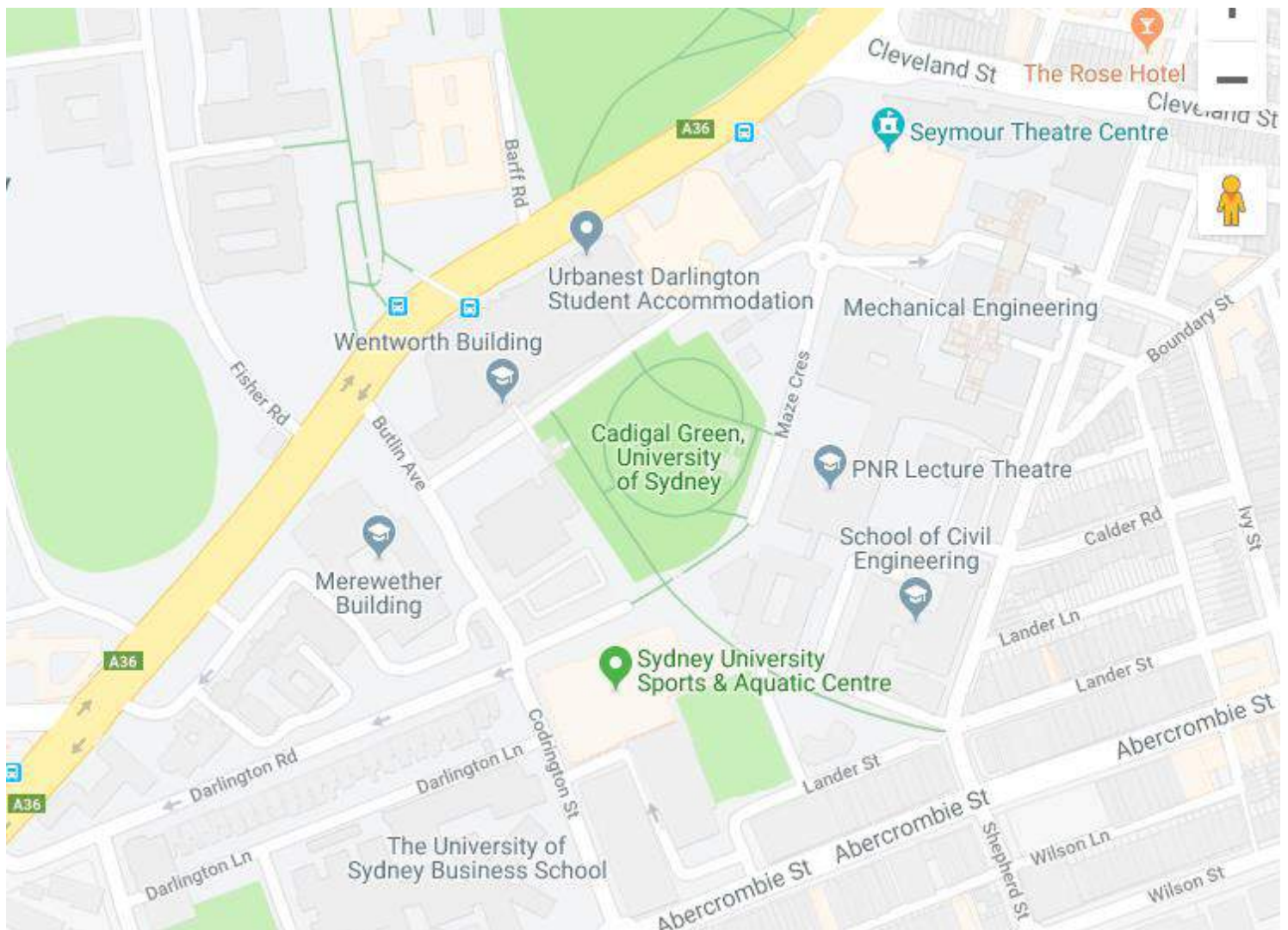
print the email and present it at the door. Please note: Non members should enter the code **NM** if requested to enter a RAeS membership number. Any member who does not have access to the internet can send a letter to Mr Jeff Lock, 4 Hillcrest Place, North Manly NSW 2100 with your name (plus names of accompanying persons), membership number or state 'Friend' if you are a Friend of the Branch, and phone number.

Introduction of a Non Members Fee to attend monthly presentations: As previously advised, the Sydney Branch Committee is introducing a 'Non Members Fee' to attend our monthly presentations. The fee will initially be set at a **Special Rate of \$10** per non-member and will increase to \$15 mid-year. The 'Non Members Fee' will not apply for all presentations. However, it will be clearly displayed when registering on the Eventbrite site – and is payable via credit cards. 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.

Join the Society immediately and enjoy free lecture attendance: Email: generalmanager@raes.org.au
Students are free in the first year; join immediately as an Affiliate with no entry restrictions; members receive the Aerospace magazine, and can nominate for and vote in Sydney Branch and Australian Division elections.

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.



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

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.



Alison Webster joins the FRAeS ranks

Australian Division Immediate Past President, Mr John Vincent FRAeS, accompanied by Mr Alan Joyce FRAeS, Chief Executive Officer and Managing Director of Qantas, presented Qantas International CEO Alison Webster with her FRAeS certificate at Qantas HQ in Sydney in early December. Alison was the recipient of a presidential invitation from RAeS London.

Alison Webster was appointed Chief Executive Officer of Qantas International in November 2017. She has more than 30 years of experience in the aviation industry, and has held a variety of senior leadership roles in the Qantas Group over the past decade and is one of the principal direct reports to Qantas Group CEO Alan Joyce.

2018 Annual General Meeting Royal Aeronautical Society Australian Division Sydney Branch Inc

Date: **Wednesday 10th April 2019** Time: **commencing 18:00 hours - sharp**

Venue: **New Law School Lecture Theatre 101 Eastern Avenue, University of Sydney**

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

Refreshments will be available **prior** to the commencement of the meeting.

- 2018 AGM Agenda:**
BUSINESS ARISING:
CHAIRMAN'S REPORT:
TREASURER'S REPORT:
ANNUAL ELECTIONS:
APPOINTMENT OF HONORARY AUDITOR:
GENERAL BUSINESS:
CLOSE OF AGM:
2019 Committee Nomination Form: Should you wish to nominate for the 2019 Committee, please complete the Nomination Form below and follow the instructions.
- PRESENT:** Members to sign attendance book.
APOLOGIES: Discussion and motion to accept.
Annual Report, discussion and motion to accept.
Presentation of 2018 Financial Statement. (Audited report will be sent with the June, 2019 Newsletter). Discussion and motion to accept.
The Hon Secretary to report on Nominations received for the classes of Committee by the due date 18th March 2019 and, should there have been more Nominations received than positions available for any of the classes, the result of elections.
Mr Stephen Howard, Harrison and Howard.
Any business raised and accepted by the Chairman.
Thank you for attending the AGM and the Committee looks forward to your continued support.

2019 Committee Nomination Form

Send to: The Honorary Secretary, RAeS Aust Division Sydney Branch Inc, 88 Trafalgar Street, Annandale, NSW 2038 or Email: sydneybranch@raes.org.au (please ensure that Nomination Forms have been correctly signed)
The 2018th Sydney Branch Annual General Meeting is to be held on Wednesday 10th April 2019, at 18:00 hours, in the **New Law School Lecture Theatre 101, Eastern Avenue, University of Sydney**. In accordance with the Branch Rules of the Sydney Branch of the Royal Aeronautical Society Inc passed at the AGM held 7th March, 2018, nominations for the Committee are called and shall be made in writing and signed by one member of the Branch and countersigned by the Nominee. The Committee consists of one Chairman, and 3 Student Representatives, who hold their positions for 12 months, and 10 Ordinary Committee Members (in total 14 people). The 10 Ordinary Committee Members will have a term of 2 years. However, as this is the first election since the change of the Sydney Branch Rules at the AGM held 7th March, 2018, half of the 10 successful candidates will be elected for one year whilst the remaining five will hold office for 12 months. The 2019 Committee will determine the five Ordinary Committee Members who will have a 1 year term, with the remaining 5 having a 2 year term. All future terms for the 10 Ordinary Committee Members will be for 2 years.

Please forward completed Nomination Forms to the Branch Honorary Secretary at the address above by Wednesday 18th March, 2019 which is at least twenty one (21) days prior to the 2018 Annual General Meeting.

I(Nominator's Full Name)
of(Nominator's Address)
nominate(Nominee's Full name)
of(Nominee's Address)

as an: Ordinary Committee Member / Student Representative / Chairman (*delete 2 of these classes as appropriate*) for the Sydney Branch of the Royal Aeronautical Society Australian Division for the Year 2019.

Signed:.....Date:.....Member Number:.....(Nominator)
Signed:Date:Member Number:.....(Nominee)
Tel contact:(Nominee) email:(Nominee)

NOTE: PLEASE USE ONE FORM FOR EACH NOMINATION

Office Use Only: Nomination received by the Sydney Branch Hon Sec:.....(Initials).....(Date)

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.

50 years ago 'today' - Boeing 747 takes first flight February 9, 1969: The increasing popularity of air travel motivated Boeing to create the largest civilian plane in the world in the late 1960s. The result was the **Boeing 747** jumbo jet, which made its first test flight on February 9, 1969. Christened the "**City of Everett**", after the city it was built in, it was the first new Boeing transport not painted in Boeing's traditional prototype colours of brownish-copper and yellow. Crowds of people gathered at Paine Field in Everett that morning to witness the flight of the largest transport plane in the world. The first 747 was piloted by Jack Waddell, who flew with co-pilot Brien Wygle and flight engineer Jess Wallick. It took flight at 164 mph, circled the airport at 2000 feet then climbed to 15,500 feet where tests were performed. After about an hour in the air, it returned to Paine Field.

In 1966, Pan American Airway ordered 23 passenger and two freight jumbo jets for \$US550 million, and Boeing got to work. The company built the largest building in the world by volume in Everett, WA to construct the 747. Joe Sutter, who died in 2016, led the engineering team that designed the Boeing 747 in the mid-1960s. It took 50,000 employees to bring the plane to life. Boeing says it took 29 months from "conception to rollout," which earned the team the nickname "The Incredibles." The design required 4.5 million parts, used 75,000 engineering drawings, and built on the high-bypass engine technology that had been developed for the C-5A gigantic military transport plane. The original 747 had a 195-foot, 8-inch wing span and a swept-wing design that set the wings at 37 degrees for high cruising speeds over long distances. It weighed in at 735,000 pounds, twice the previous Boeing 707 model.



The 747's First Flight – "City of Everett"

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; 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: Feb 20: Registrations close for "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.**

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 will be a joint meeting with Engineers Australia and the Australian Society for Defence Engineering. Venue is Engineers Australia, Level 3, 8 Thomas Street, Chatswood, commencing 18:30 hours. Refer to flyer attached.

April 10: Sydney Branch AGM commencing 18:00 hours – followed by presentation from Mr Greg Ferguson, Chief Executive Officer, Rumour Control.

May 4-5: Wings over Illawarra. For details refer: www.wingsoverillawarra.com.au

June 26: Australian Division Safety Forum – further details to be advised.

Saturday July 20: The fiftieth anniversary of the first men walking on the moon. Sydney Branch is arranging a 'Special Event' on the night. Further details to be advised.

July 23-26: Abstracts containing no more than 300 words are now invited for the 2019 Aircraft Airworthiness and Sustainment (Australia) Conference, a non-profit event for the benefit of all those involved in sustaining our fleets, both Civil and Military, safely and economically through their lifecycle. The Conference will be held at the Brisbane Convention and Exhibition Centre. **Closing date for abstracts is 12 April, 2019.** For further details refer: <http://www.ageingaircraft.com.au>

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