



**ROYAL
AERONAUTICAL
SOCIETY**

2016 • CELEBRATING 150 YEARS

AUSTRALIAN DIVISION SYDNEY BRANCH INC

APRIL & MAY 2016

Vol 2016-3 ABN 75 134 058 731

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

NEWSLETTER

Numbers Limited: members only and ballot required!!

Site Visit to the University of New South Wales Aerospace Laboratory

led by **Associate Professor Con Doolan**

UNSW Mechanical and Manufacturing Engineering

Date: **Wednesday 27th April, 2016**

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

Venue: **Ainsworth Building J17, Ground floor, University of New South Wales**

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



Synopsis: The UNSW Aerospace Laboratory is part of the newly refurbished buildings of the School of Mechanical and Manufacturing Engineering. The tour includes inspection of the four main wind tunnels in the aero lab. The UNSW aero lab is unique because it has capabilities in aeroacoustics and the tour will include some of the special instrumentation used to study noise sources on aircraft and wind turbines.

Profile: Associate Professor Con Doolan has an honours degree in Mechanical Engineering and a PhD in Aerospace Engineering. He has over 20 years' experience in wind tunnel testing, fluid dynamics and acoustics. Over the past 12 years, he has developed a speciality in aeroacoustics, the science of sound production by fluid flow. He and his group have investigated the fundamental noise generation mechanisms of aircraft, high-lift devices, wind turbines, fans and submarines. He is currently leading new research developing bio-inspired noise control devices for fans and wind turbines.

Proceedings: The evening will commence with introductory remarks by Associate Professor Con Doolan at 18:30 hours followed by the tour of Aerospace Laboratory. Numbers have been limited to 40 and so is restricted to members Only. The tour will be conducted in two groups of 20. Should you wish to attend please register at: <http://raesapril27.eventbrite.com.au> by 22nd April 2016 or if you do not have access to the internet please complete the form below and follow the instructions. If registrations exceed 40 members, a ballot will be conducted and the successful members notified by email/telephone.

Visit to the University of New South Wales Aerospace Laboratory

Meet ground floor UNSW Mechanical and Manufacturing Engineering Building at 18:00 hours sharp.

Refer map below.

If you wish to attend the site visit at the University of New South Wales Aerospace Laboratory Wednesday 27th April, 2016, 18:00 hours sharp, please register at: <http://raesapril27.eventbrite.com.au> by 22nd May 2016 or if you do not have access to the internet please complete this form (one form per member). The form must be received at the address below by close of business 22nd April 2016:

Mr J.A. Lock, 4 Hillcrest Place, North Manly NSW 2100. (Please allow at least 7 working days for delivery by Australian Post using their standard delivery service.) Numbers are limited to 40 members.

RAeS Membership Number:.....

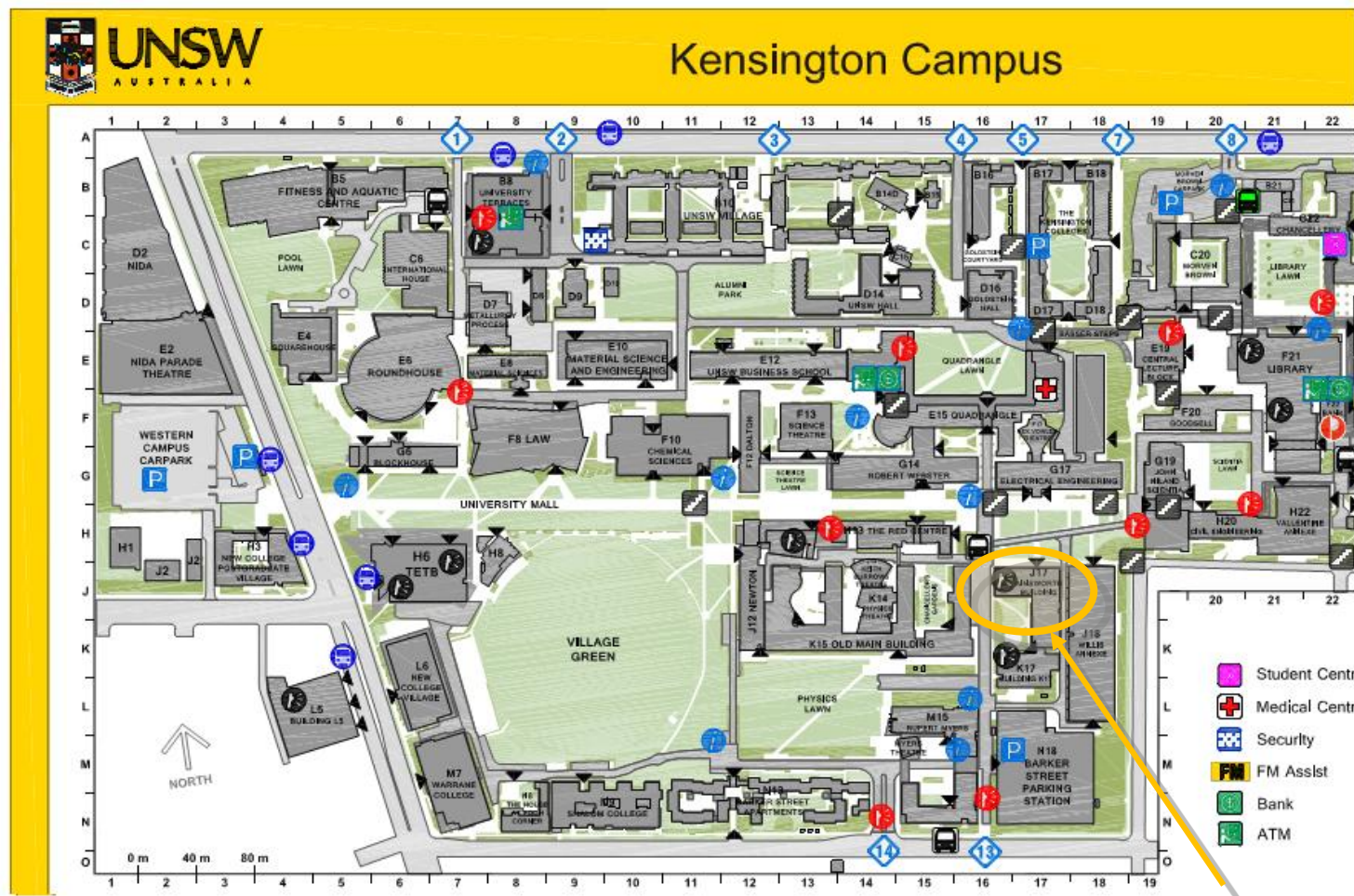
Surname: **First name:**

Contact phone Number:..... **Email:**.....

Full residential address:.....

Ensure that you wear flat and fully enclosed footwear.

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)



DINNER: There will not be a dinner held afterwards.

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

Webinar 'Sydney's Second Airport: Reality & Myth'

The Australian Division of the Royal Aeronautical Society is hosting a webinar entitled:

SYDNEY'S SECOND AIRPORT: REALITY & MYTH

When: Friday 22 April, 2016 from 12:00 to 13:00 hours (AEST). The event is live for registrations at Eventbrite: raeswebinar.eventbrite.com.au

Facilitator: David Forsyth

Panellists: Dr Warren Mundy (School of Aviation, UNSW); Mr Greg Hood (Airservices Australia); Mr Bob Germaine (RDA); plus one TBA.

Questions will be taken from registered participants as time allows.

RAeS Members FREE Non-members \$25

Webinar joining instructions will be forwarded to individuals registered, after the closing time for registration. [Add to Calendar](#)



Numbers Limited: members only, ballot required!

**Site Visit to the Qantas Jetbase
Tuesday 24th May, 2016 Time: 1015 hours**

**Commences from Qantas Headquarters, Building A, Qantas Airways Ltd
10 Bourke Road, Mascot NSW at 10:15 hours sharp**

Your Committee has arranged a site visit to the operational Qantas Jetbase which is limited both to RAeS members and a maximum number of 15 people. Should you wish to attend please register at: <http://raesmay24.eventbrite.com.au> by 20th May 2016 or if you do not have access to the internet please complete the form below, make copies of all required documents, and post the form and documents to the following address by close of business 20th May 2016:

Mr J.A. Lock, 4 Hillcrest Place, North Manly NSW 2100. (Please allow at least 7 working days for delivery by Australian Post using their standard delivery service.)

If registrations exceed 15 people, a ballot will be conducted and the successful members notified by email/telephone the weekend of 21st and 22nd May. Successful (balloted) attendees who registered at Eventbrite will at this time be requested to email soft copies of the required documentation immediately to: sydneybranch@raes.org.au

The completed forms and documents will be forwarded to Qantas Airways Ltd for validation. **On the day all attendees must produce photo ID (eg, passport or Driver's Licence) to participate in the Qantas Jetbase Tour.**

Please note the Qantas and Airside security requirements for the tour - non-compliance will result in entry being refused.

Public Transport: Preferred transport is by train to Mascot Station and walk 150 metres, or the 400/410 bus services (Exit bus service at corner of Coward Street and Bourke Road and walk 150 metres).

Parking: Parking stations are available locally, and there is very limited restricted street parking.

Members only tour of the Qantas Jetbase Tuesday 24th May, 2016

RAeS Membership Number:.....

Surname: **First name:**
(as shown in your current passport or driver licence)

Date of Birth:..... **Contact phone Number:**.....

Email:.....

Full residential address:.....

You are **required** to attach to this application the following:
A recent JPEG photo of yourself which includes your name; and
A copy of either your current driver's licence or current passport.

Please note the **Clothing Requirements:**

Ensure that you wear flat (No heels are permitted on Qantas's operational sites) and fully enclosed footwear; and

You must wear a Hi-Visibility Safety Vest at all times which will be provided to you before the tour commences and which will be returned at the end of the tour.



Who runs the Wings Awards? The Wings Awards are run jointly by the Australian Division of the Royal Aeronautical Society and *Australian Flying* magazine.

When do entries open? When do entries close?

Entries open 28 March 2016 and close 1 July 2016.

What do the Wings Awards recognise? The Wings Awards take a panoramic view of the general aviation (GA) industry by recognising the achievements of aviators, aero clubs, instructors and training organisations that form the backbone of the GA industry. Excellence will be recognised across four categories:

- Col Pay Lifetime of Service to General Aviation
- Aero Club of the Year
- Flying Training Organisation of the Year
- Flying Instructor of the Year

What is the Col Pay Award? The most prestigious Wings Award is the Col Pay Lifetime of Service to General Aviation Award, which recognises significant contributions to GA over long careers. The Col Pay Award is named after GA legend Col Pay, a well-known aviation pioneer who specialised in agricultural aviation and warbirds from his home base in Scone, NSW. Nominations for the Col Pay Award are perpetual; once someone is nominated, but does not win, the submission will be considered again in the following years. This doesn't happen with any other Wings Awards categories.

Who is eligible to enter the Wings Awards 2016 and where do I need to submit my nomination for a Wings Award? Each award has a different submission, criteria and process to follow. It is recommended entrants first read these prior to nominating by visiting <http://www.australianflying.com.au/wings-awards> to submit your nomination.

How much does it cost to enter the Wings Awards 2016?

There are no costs in nominating an entrant across any of the categories.

How long does the online nomination process take?

If you have pre-prepared all of the requirements outlined in the submission, process and criteria, it shouldn't be a long and difficult process.

Can I nominate into a category more than once?

Yes. Individuals putting forward nominations can make submissions in more than one category.

Can I nominate the same person/club/instructor/school for more than one award?

Each category has a different submission, procedure and criteria and requires a separate entry, but you are welcome to nominate as many as you like.

How will the winners be announced?

The winners will be announced in the November-December 2016 issue of *Australian Flying* and on the website www.australianflying.com.au.

Letter to the Editor.

Longest serving member Mr John Mills CEng FRAeS celebrates his 100th Birthday

Letter: What an interesting article about John Mills. I remember him well, from those early days in the mid-1950s, when very young, and taken to meetings by my late father, Walter Kuhl. Men like John Mills, Len Carolan, Steve Newbiggin, Bill Downes, and Chris Harrison all spring to mind. All very decent enthusiastic and contributing to the industry they loved. John was a most delightful gentleman. I remember being lucky to meet Sir Gordon Taylor, and Sir Lawrence Wackett who gave the very early KS Lectures. An interesting era.

Regards, Stephen Kuhl

Recognition by the President of the Society: John's birthday was recognised by the President of The Royal Aeronautical Society, Martin Broadhurst OBE MA CDir FIOD FRAeS who wrote to John Mills on his 100th birthday congratulating him on his milestone and particularly as a member of the Society. The letter is published below.



Mr John Mills CEng FRAeS
Room 18 – Orr Wing
Jarmin Hostel, Carroona
65-105 Rous Road
GOONELLABAH NSW 2480
AUSTRALIA

15 July 2015

From: Martin Broadhurst OBE MA CDir FIOD FRAeS
President, Royal Aeronautical Society

Congratulations on 100 years – and 78 years as member of the Society

Dear Mr Mills,

The Royal Aeronautical Society is privileged to have among its members a man of your outstanding engineering ability and longevity. Not many of us reach 100 and not many of us have such a distinguished record of achievement in the aerospace industry. Furthermore, 78 years as a member is a wonderful achievement!

I have just been reading your four part recollections that were published by the Bulletin of the Mosquito Association of Australia of your time at de Havilland and the crucial part you played in the production of the Mosquito in Australia. It is a fascinating story and I, like many others, am impressed the way the Australian aircraft industry went from nothing in the 1930s to a substantial producer of state of the art aircraft for the Royal Australian Air Force in the early 1940s. Your part in this process is quite extraordinary. Having graduated in 1937 at the age of 22 you were works manager at de Havilland by 1937 and by 1942 you were in Canada and then England learning how to manufacture the then top secret Mosquito. In 1943 you were Chief Engineer at de Havilland and the first Australian-built Mosquito had flown. By the end of the war with Japan, de Havilland had built 103 Mosquitos and in 1948 the last Mosquito, the 212th, was delivered.

In 1948 you joined British Commonwealth Pacific Airlines which was formed operate a trans-pacific airline to North America, and then later you joined Qantas as Engineering Production Manager and amongst other activities spent 2 years overseeing the 707 jet airliner production.

To recognise the 78 years of being a member of the Society, I enclose with this letter a gold kestrel pin. We normally award these to individuals who reach 50 years of membership so you might say this is some 28 years overdue!

You have lived a wonderful career and you are example to so many, therefore, on behalf of all members of the Royal Aeronautical Society I congratulate you on your 100th birthday and wish you all the best for the future.

Yours sincerely
Martin Broadhurst

Note: Since this article was written we have been advised that Mr John Mills CEng FRAeS passed away on 1st April, 2016. Further details will be advised when to hand.



Boeing Celebrates Centennial with 'The Age of Aerospace' Documentary Series: continues on Discovery Science.

Episode 4: In the Vastness of Space tells the story of Project Apollo, which accomplished landing the first humans on the Moon, and humankind's first journey to the Moon on Apollo 8.

(Premieres Sunday 17 April at 9:30pm AEST. Encores Monday 18 April at 4:30pm AEST and Tuesday 19 April at 10:30am AEST)

- **Episode 5: Dreamliner** reveals the technology, resources, and risk required to build commercial aircraft in the modern world through the story of the most recent revolution in jet design, the 787 Dreamliner.

(Premieres Sunday 24 April at 9:30pm AEST. Encores Monday 25 April at 4:30pm AEST and Tuesday 26 April at 10:30am AEST)

For more information on Boeing's centennial, visit: www.boeing100.com

2016 Diary: **Apr 20:** RAeS and AIAA presentation commencing 13:00-14:00 hours entitled 'Trends in Large Aircraft Maintenance, Repair & Overhaul' by David Cox, Chairman of the RAeS Sydney Branch. Venue: Mechanical Engineering LT, Sydney University. Free drinks and pizzas. Register by sending an email to: aiaaussb@gmail.com

Apr 22: Webinar **SYDNEY'S SECOND AIRPORT: REALITY & MYTH** – from 12:00 to 13:00 hours (AEST). Register at: raeswebinar.eventbrite.com.au

Apr 30-May 1: Wings over Illawarra – refer details at: www.wingsoverillawarra.com.au



May 2-5: AUVSI's XPONENTIAL 2016 Unmanned Systems Show, New Orleans, Louisiana, USA — The Association for Unmanned Vehicle Systems International will host XPONENTIAL 2016 - your opportunity to hear from industry

leading experts across every domain - air, ground and maritime. XPONENTIAL 2016 convenes the largest global community of commercial and defense leaders in robotics, drones and unmanned systems. Refer details at: <http://www.xponential.org/auvsi2016/public/enter.aspx>

May 10: 18:00 to 19:30 hours, Warwick Holmes on the European Space Agency's Rosetta mission to Comet-67P, Lecture Theatre 4002 (Messel) Sydney Nanoscience Hub Physics Rd, The University of Sydney (Sydney Ideas). Click for: [Venue location](#) This is a free event with online registration - [click here](#) for the registration page.

July 1: Nominations for 'The 2016 Wings Awards' close. Refer details at: <http://www.australianflying.com.au/wings-awards>

Sept 15-18: Australasian Society of Aerospace Medicine 2016 annual conference, Townsville Qld - refer details at: event.icebergevents.com.au/asam-2016/

Sept 25-30: ICAS 2016 in Daejeon, Korea – refer for further details: www.icas2016.com The Preliminary Programme is at: www.icas.org/media/ICAS%20Congress%202016%20Preliminary%20Programme.pdf

Oct 25-27: APISAT 2016 in Toyama, Japan. Call for papers close 20/5/2016 – refer details at: www.jsass.or.jp/apisat2016

Feb 28- March 5, 2017: AVALON2017 – Australian International Airshow and Aerospace & Defence Exposition – The Essential Aerospace Forum – is open for business. Refer details at: airshow.com.au/airshow2017/enews/AS2017-Newsletter-ED1.html

Sept 25-29, 2017: The 68th International Astronautical Congress is being held in Adelaide. Thousands of scientists, including some 200 astronauts, will participate in the international space congress. The global economy and security of many nations depends on assured and secure access to satellites that provide communications, timing and navigation services and remote sensing data. Space probes are also vital to our understanding of the solar system and the far universe. The IAC2017 program addresses all of these topics and emphasises the important contribution that space makes to STEM education as well. Refer details at: iac2017.org/

