



**ROYAL
AERONAUTICAL
SOCIETY**
AUSTRALIAN DIVISION
SYDNEY BRANCH

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

NEWSLETTER

'Experimental Aviation – The Australian Industry in context'

Date: **Wednesday 25th July, 2018**

Time: **18:30 for 19:00 hours**

Venue: **Law Lecture Theatre 026
University of Sydney**

Speakers: **Rob Lawrie, Company
Director, building Vans Aircraft
and**

**Richard Talbot, Company Director
built and fly's IFR Vans Aircraft**



The RV-7/7A

To view map please click/copy and paste into your web browser the following: www.google.com/maps/place/Sydney+Law+School

A Brief History: In the early 1970s, a skinny young engineer from a small town in Oregon built himself a better airplane. After improving another homebuilt design, the Stits Playboy, as much as he could, Richard (Van) Van Grunsven decided to start with a clean sheet of paper. His RV-3 impressed a lot of people ("RV" of course, stands for Richard VanGrunsven). Many of them were willing to take on the task of building an airplane from scratch so that they, too, could have an airplane that flew like Van's. Already an experienced pilot, Van quit his job with a forklift company and seized the opportunity to work with his real love, aviation. He founded Van's Aircraft, Inc. in 1972 and began selling plans and a few parts for the RV-3.

By the end of 2012, about 8000 RV kits have been completed and flown, and thousands more are under construction. Completion rates currently average about 1.5 per day. RVs are flying in at least 45 different countries and kits have shipped to about sixty. From a small farm in Oregon, these wonderful airplanes have achieved a global following. Not because of any superior marketing campaign, but simply because they fly so well and bring so much pleasure to their builders.

In summary, it's a fast airplane, able to maintain cruise speeds near or even above 173kt depending on the engine installed. That speed, combined with the endurance and the range possible with the 159lts fuel capacity means that you can traverse half the Australian continent in a day -- more if the winds are right. The aerodynamically "slippery" airframe also means that while high top speeds are possible, more relaxed cruise speeds can be very economic. Cruising at a sedate 139kt or so, the RV-7 (the most popular design) can achieve better mileage than many of the compact cars it is flying over. However, simply blazing through the atmosphere is not what RVs are all about. Pilots who fly them rave about the handling qualities and control harmony...qualities that are difficult to describe with numbers. Thousands



of RV-7/7A kits have shipped to countries all over the world. If you prefer sitting next to your flying partner while you both enjoy one of the nicest-flying airplanes ever.

The evening will commence at 19:00 hours with presentations by Rob and Richard who will discuss the Van's Aircraft, Inc.

Following these presentations the evening will break into “Shared Post Lecture Breakout groups” with each group being led by an experienced Van’s Aircraft builder, owner, and pilot, as follows:

“The Latest and Greatest in Experimental Avionics” - comparisons to A380 capabilities.

Leader: **Cameron McCarthy, Senior Qantas Avionics LAME**



B2 (Avionics) LAME. Licenced on B737NG, B767, B747, A330 and A380. 34 years with Qantas Engineering. Senior LAME in Cairns for 13yrs. Qantas Engineering Tech Rep at HAECO in Hong Kong in 2008. Qantas Production Inspector Airbus in Toulouse, France 2010. Saw last 2 QF A380s and 3 A330s through entire build, testing, acceptance flights and delivery. Delivered 5 x A380s, 5 x A330s and 6 Jetstar A320s. Currently based in Sydney, A380 maintenance. Commercial level pilots Licence with multi-engine and instrument ratings. Aerobatic and tailwheel undercarriage ratings. Built Thorp T-18C 1985 - 1992. Sold as nearly complete "rolling airframe" without engine and avionics. T-18 was finished by a CASA Check Pilot and is now flying. Nearly completed building Vans RV-7 with Lycoming IO-360 engine and Garmin avionics. It has been a 14 year project so far.

“Flight testing experience” - Diagnosing and improving in-service fleet design.

Leader: **Gary Weeks, Qantas 787-9 Dreamliner Captain**



Professional Pilot

2016-2018 SAAA National Councillor- Flight Operations Manager.

2013-2018 Co Founder LOBO Oz. Lancair Owners and Builders Organisation Australia.

Built and holds maintenance authority airframe and power plant IFR Lancair Legacy.

Current Weight and Balance approval.

“Designing maintainable aircraft” - Immediate and long-term implications

Leader: **Geoff Shrimski RAAF and Civil LAME retired.**



Started learning to fly and soloed at age 16 and flew Fighter, Transport and Passenger aircraft as well as General Aviation Helicopters. Currently in finishing stages building Vans Aircraft - RV7).

1999-2015 TAFE Aerospace Lecturer – Aircraft Maintenance Engineering (Mechanical)

2007-2013 SAAA National executive (Vice President, Treasurer, Secretary, President (Acting))

Geoff has worked on the following notable aircraft; Hercules C-130, Boeing 707-388, Boeing 767, Boeing 747, Sabre F-86, Dakota C47, Mirage III.

“Beyond Imagination, an Adventure in Aviation or a life time of Aviation Adventures” – futures in Experimental Aviation.

Leader: **Rob Lawrie – Company Director, building Vans Aircraft - RV7 and refitting Kitfox.**



Medical and Pharmaceutical Scientist / Product Specialist and Company owner.

2017-2018 SAAASydney Events and Training Co-Ordinator

2015-2016 SAAA National President

2015-2016 CASA - Director of Aviation Safety Advisory Panel

2013-2017 SAAASydney Chapter #1 President

Currently Building and pending maintenance authority for airframe and powerplant IFR Vans RV7 and restoring and upgrading 1989 Skystar Kitfox MKII

“You don’t know what you don’t know, so ask” – an open question session.

Leader: **Richard Talbot – Company Director built and fly’s his own IFR RV7 Van’s Aircraft.**



Computer Systems Engineer/ Company owner.

2018-2019 AOPA Australia Vice President and Treasurer

2017-2018 SAAASydney Chapter #1 President

2015-2016 SAAA National Treasurer

Fixed wing and helicopter - IFR rated Private Pilot - Built and holds Maintenance authority for airframe and powerplant - IFR Vans RV7. Currently building - IFR Vans RV8 and Vans RV10

Agenda

18:30 Hours: Registration | Welcome tea & coffee

19:00 hours sharp: Presentations by Rob and Richard introducing the Van’s Aircraft, Inc.

19:30 Hours: Q & A

19:40 Hours: Break into “Shared Post Lecture Breakout groups”
21:00 Hours: **Light supper** (pizzas) to enable the speakers and attendees the opportunity to mingle and to continue discussions.

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://raesjuly18.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.

Parking: is available in the Shepherd Street multi-story car park, located on the corner of Cleveland St and Shepherd St and also in the New Law School car park – entry from Great Western Highway, and then follow the signs. 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 away 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: <http://www.sydneybuses.info/routes/timetables-route-maps>

Location: Building Name: Sydney Law School/New Law Annexe Building Code: F10A



Membership Information: Annual memberships commence at only \$155 or \$29 for Students (but free for the first year). Being a member helps us sustain a vibrant activities programme and opens the way to access restricted 'member-only' events. For further details refer: <https://www.raes.org.au/index.php/membership/2014-11-02-00-22-30/become-a-member>

'Diversity in the Workplace'

Date: **Thursday 26th July, 2018**

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

Venue: **GE Aviation Boardroom 20/99
Walker St, North Sydney** Meet in the lobby



Speakers: **Keren Rambow, General Manager
South Asia Pacific GE Aviation** and
Matt Rowe, Military Sales Director South Asia/Pacific

Format: **Casual, and free ranging discussion around the boardroom table**

Focus: **Maximum 18 people (Ballot if needed)**

To view map please click/copy and paste into your web browser: www.whereis.com/search-results?99WalkerStNorthSydney



Keren Rambow

BSc (Hons), BEng Elec
(Hons), MBA-Tech
(Hons), CP Eng –
IEAust.

Keren is responsible for leading the Commercial Engine Sales team for Australia, New Zealand, South Asia Pacific Islands, and Indonesia. She is also responsible for GE's Aviation Business in Australia and New Zealand. GE engines are an integral part of the regions commercial aircraft fleet and the SAPAC team support those engines from planning for Entry into Service, delivery, day to day operations and asset-performance management which enables predictive maintenance. GE Aviation's emerging technologies such as additive and digital are also integral to the GE Aviation team – ANZ. Keren started with GE in 2016 as a Sales Director, supporting Qantas, Jetstar, Rex, Fiji Airways and other South Asia Pacific Island Airlines. She successfully led the Fiji Airways 737 Max campaign as well as a complex Qantas/Jetstar GENx restructure.

Prior to GE, Keren ran her own business, Pacific Aerospace Consulting, an aerospace consulting company based in San Diego USA. She and her husband Eric founded the Company 14 years ago to provide professional services to the Australian and USA Governments. Previously, Keren was an officer in the Royal Australian Air Force for 15 years, where she was

responsible for engineering design and logistics support of avionics, life support systems, automated test equipment and ordnance systems on F/A-18 aircraft. In 2001-2, she undertook an overseas exchange posting in the USA as a Quality Assurance Officer with US Marine Corps Fighter Attack Training Squadron 101.

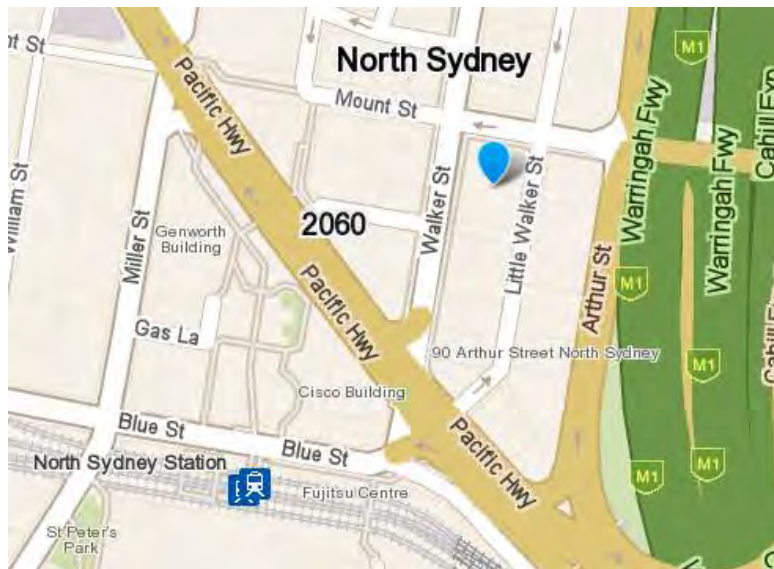
Keren is a graduate of the Australian Defence Force Academy in Canberra, Australia. She holds a Bachelor of Science (Maths and Physics) degree and Honours degree in High Energy Astro-Physics from the University of New South Wales (ADFA), a Bachelor of Engineering (Electrical) Degree from University of Newcastle, Australia and an MBA (Technology) from La Trobe University in Melbourne, Australia.

Prior to joining GE, Matt spent 11 years in the Royal Australian Air Force as an Aircraft Technician on the F/A-18 Hornet Fleet, based at RAAF Base Williamstown. In 2009, Matt took the opportunity to join GE as the F404 Lead Field Engineer, as a part of the GE Total Logistic Support (TLS) Program supporting the F/A-18 Hornet Fleet. Over his 6 years in this role, Matt provided technical support for the RAAF F404, ensuring safety, capability and reliability for the RAAF Hornet fleet. Under the TLS program, Matt led the technical strategies that have seen the RAAF F404 fleet reach its optimal safety and reliability status and assert its position as the world's best performing F404 fleet. During this time, Matt completed his Masters in Aviation Management, and in 2016 was promoted to the Field Services lead for the S.E Asia region and Operations Manager for the RAAF TLS program.



Matthew Rowe

This saw Matt's product support coverage grow to also include F414, F110 & T700 military engine lines. In 2018 Matt accepted the position of Military Sales Director for South Asia/Pacific. Over his years in GE, Matt has also had significant involvement in Commercial Derivative engines, supporting entry into service, and ongoing support, for both CFM56 & CF6 powered platforms for the respective RAAF Wedgetail and Multi Role Tanker/Transport platforms. Matt is a keen supporter of workplace diversity, and is a current member of the GE Women's Network. In support of driving greater gender diversity, Matt leads the "Mend the Gap" initiative, which is a grassroots movement, encouraging men to actively stand up and support women in the drive for social and organizational change.



Parking: Council evening paid parking is available in surrounding street – refer: www.northsydney.nsw.gov.au/Traffic_Transport/Car_Parks as well as Secure Parking refer: www.secureparking.com.au/en-au/offers-and-events/north-sydney-parking

Public Transport: Trains and buses service North Sydney. Refer: www.sydneybuses.info/routes/timetables-route-maps

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://raesDiversityjuly18.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: Watch past lectures 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.

60th Sir Charles Kingsford Smith Lecture and Annual Branch Dinner: **Mark your diaries – 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 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" and will "Draw upon the significant challenges faced by Sir Charles Kingsford Smith in his Lockheed Altair (also acknowledging his other aircraft) and his vision to conquer time and distance. By characterising those challenges into the foundation of what has been achieved in the air, I shall draw parallel with the current age's challenges presented by distance and time, and the apertures opened by technology and culture."

This date is close to the in-country arrival of the F-35 (anticipated week of 10 Dec). Further details will be advised shortly.

Australia Youth Aerospace Association (AYAA) – Aerospace Futures Annual Conference:

Occurring across state capitals annually, the Aerospace Futures Conference is an important event in the Australian aerospace industry calendar and has been an immense success with a total of 1000 delegates, 80 organisations involved. 2018 will be the very first year that the Aerospace Futures conference will be coming to Canberra in its decade long history. The venue is: ADFA Adams Auditorium, Canberra – map reference: www.google.com/maps/place/Adams+Auditorium/@-35.2980438,149.1487173,14z/data=!4m5!3m4!1s0x0:0xb37ff3c514a9d259!8m2!3d-35.2938402!4d149.1655397?hl=en-US

The timing and location for Aerospace Futures 2018 is impeccable with the upcoming mobilisation of a National Space Agency. The event will attract a wide variety of prestigious industry speakers to the ACT. Targeting a record 250 youth delegates and 150 invited professionals, the event is focused towards undergraduates, postgraduates and young professionals from across Australia and New Zealand. With strong support from government, industry and academia, you are warmly invited to our celebration of Australia's Aerospace Industry. For further details refer: aerospacefutures.ayaa.com.au/

Tour of Sydney Airport Air Traffic Management Facilities: The tour for 'Members Only' took place, Saturday 23rd of June 11:00 to 14:00 hours. The group of 10 members were met by Mr Roger Chambers FRAeS, Air Traffic Management Service Manager, and Rory Delaney, Airservices Australia. The group were provided with a 30 minute presentation on the roles of Airservices which has a fixed asset base of 1079 buildings at 684 sites around Australia valued at over \$1 billion. This includes two major centres in Melbourne and Brisbane, two terminal control units, 29 towers at international and regional airports, and aviation rescue and fire fighting stations at 26 of the nation's busiest airports. In addition to this, Airservices also maintains a range of aviation navigation and surveillance equipment around the country.



Following the presentation the group inspected both the airspace management team in the south west corner of Kingsford Smith Airport and the Air Traffic Control tower. The views from the tower of the airport and Sydney surrounds were fantastic which was complimented by a beautiful sunny, blue sky day.

Aviation Safety Forum held Wednesday 27th June: The inaugural Aviation Safety Forum was held at the Four Seasons Sydney and put the spotlight on three major issues confronting the aviation safety now:

FLIGHT DECK: TRAINING STANDARDS & THE MAN-MACHINE INTERFACE
DRONES: ASSIMILATION INTO CURRENT AIRSPACE
AIRPORT AND CYBER SECURITY: WEAKNESSES & CHALLENGES

95 attended the forum with some 70 attending the dinner afterwards.



Ben Martin

The success for the day was in no small part due to the exemplary organising committee of David Forsyth FRAeS, Andrew Drysdale FRAeS, John Vincent FRAeS, and the Chairman Geoff Sartori FRAeS, the calibre of the industry representatives in the room, and to the professional leadership of each of the three sessions Leaders namely Richard Woodward (Flight Deck), Ben Martin (Drones), and Geoff Askew (Airport & Cyber Security).

The event is an excellent example of how the Australian Division is moving to become a more dynamic and outward looking organisation that serves our members and the aerospace community by engaging directly with industry and regulators to act as an independent facilitator for critical discussion. Feedback included such comments as 'a truly world class event' and 'very professional'. A consistent theme was the very positive feedback and the need to do it again.

During the evening dinner afterwards the keynote address was given by the Honourable John Sharp AM and presentations of Fellowship Certificates to five newly elected Fellows were made by the Australian Division President, Professor Andrew Neely FRAeS (see below).



Richard Woodward
FRAeS



Geoff Askew



Rob Sharp
FRAeS



Rob Walker
FRAeS



Murray Butt FRAeS



Shane Carmody
FRAeS



Geoff Sartori
FRAeS



Hon John Sharp
AM

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.

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.

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=JGjmRRThdk> 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: July 16-19: Australian Youth Aerospace Association (AYAA) – Aerospace Futures Annual Conference – will be held for the first time in Canberra. For further details refer: aerospacefutures.ayaa.com.au/

Aug 6: Presentation entitled 'Fatigue and Corrosion Management within the RAAF's Fast Jet Fleet' at Engineers Australia, Chatswood. Refer: www.engineersaustralia.org.au/

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 – 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/IAC-18/catalog-technical-programme>

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: Mark your diaries – 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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