



**Members only Visit to RAAF Base Richmond**  
**(Limited to 15 and a ballot will be held in need)**  
**Saturday 27<sup>th</sup> August, 2016 - 11:30 hours sharp**

**Assembly point:** All members are to meet in the RAAF Visitors Carpark Dight Street, Richmond NSW (adjacent to the base and adjacent to the C130 Hercules tail by the roundabout) – refer map on page 4.



**Background:** The Royal Australian Air Force's RAAF Base Richmond is 50kms north-west of Sydney. Best known as home to our C-130 Hercules medium transport aircraft, a number of units call Richmond home:

- No 453 Squadron Flight Richmond - Air Base Air Traffic Services
- No 37 Squadron - Hercules medium transport
- No 1 Combat Communication Squadron, Headquarters
- No 22 (City of Sydney) Squadron - Airbase Operations
- No 87 Squadron Air Mobility Tactical Intelligence Flight
- No 285 Squadron - Air Mobility Group flight simulator and technical training
- No 3 Aeromedical Evacuation Squadron
- No 1 Security Force Squadron Detachment Richmond
- Air Movements Training and Development Unit - aerial delivery development, training and certification.
- Air Lift Systems Program Office (Defence Material Organisation medium airlift sustainment)
- No 176 Air Dispatch Squadron (Army air dispatching)

RAAF Base Richmond was the first Air Force base to be established in New South Wales and the second within Australia. In 1925 the first Air Force element in New South Wales, No 3 Squadron, was formed at Richmond.

From 1923 to 1936, RAAF Base Richmond was also used as a supplementary airport for Sydney, with Sir Charles Kingsford-Smith landing the *Southern Cross* there after his trans-Pacific flight in 1928, and Miss Jean Batten landing after her solo flight from England in 1935.

At the outbreak of World War 2, Nos 3, 6, 9 and 22 Squadrons were based at Richmond, together with No. 2 Aircraft Depot. No. 8 Squadron formed on 11 September 1939 and No. 11 Squadron two weeks later. During World War 2, Richmond developed into a base of major importance to Australia's defence, and has since evolved from a combat centre to become the home of Air Mobility Group. As such, the base is now the hub of logistics support for the Australian Defence Force.

**Visit Format:** The 15 Society members will be formally escorted from Assembly Point to the Security office, and then to Hangar 523 where the site visit will be held. A short presentation on RAAF Richmond will be made – prior to the inspection of the C130J's facilities. Please note that due to the constraints of the transportation that will be used on the day we will not be able to accommodate visitors who require mobility aids.

**Refreshments will be available during the visit**

**Attendance for the event will attract 2 CPD hours.**

**Security Requirements:** As this is a visit to a working RAAF base, all visitors must be Australian Citizens and are required to be security checked by the RAAF ahead of time. To enable this to occur all RAEs members who intend to take part in the visit are required to complete the form below (Page 4) and scan/email the form to Bryan Stade: [bryanstade@gmail.com](mailto:bryanstade@gmail.com)  
Only the 15 successful members' forms will be forwarded to the RAAF. All others will be destroyed.

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**RSVP:** Registration for this event **is required**. Please register by clicking on/copying and pasting into your URL this link: <https://raaftour16.eventbrite.com.au> Your registration will be confirmed by email with an attached ticket. **Please note:** This is a **RAEs Members only event and numbers are limited to 15. Should a ballot be required the 15 successful members will be notified by email and or phone and are required to print the ticket and present the ticket on the day.** Any member who does not have access to the internet can send the completed form below to: Mr Bryan Stade, 63 Wolseley Street, Fairfield NSW 2165 by Thursday 18<sup>th</sup> August, 2016.

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**Parking:** RAAF Visitors Carpark, Dight Street, Richmond NSW - adjacent to the base and adjacent to the C130 Hercules tail by the roundabout. Refer map on page 4.

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**Public Transport:** Richmond train to East Richmond station and walk to the assembly point – distance approxly 2KMs. Please allow time to travel by public transport, including waiting time, and time to walk to the venue.

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**Lunch with Mr John Borghetti FRAEs:** The second Australian Division Senior Business Leaders Lunch will be held in Sydney on **Thursday 1<sup>st</sup> September, 2016, 12:00 hrs sharp, Ballroom 1, Four Seasons Hotel, 199 George Street, Sydney.**  
**Mr John Borghetti FRAEs, Chief Executive Officer, Virgin Australia will be interviewed by media personality Ticky Fullerton.** For full details please refer to the attachment including how to register for the event.

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**Singapore Airshow 16– 21 February 2016:** Held at the purpose built Changi Exhibition Centre which offers 40,000sqm of indoor exhibition space and a 100,000sqm outdoor display area, against a backdrop of some 400 metres of picturesque coastline. The event attracted 65 of the top 100 aerospace companies in the world and continues to be the choice for major players from across the aviation spectrum to forge partnerships and do business in the thriving Asia Pacific region. France was the Feature Country for the Airshow, whilst there were 20 country pavilions including Australia.

**Highlights of the static display included:**

Republic of Singapore Air Force's Black Knight F-16C:

Two USAF F-22 stealth fighters;

Airbus A400M: and

The RAAF's Alenia C-27J Spartan battlefield airlift aircraft, being deployed outside Australia for the first time. Flying time Richmond to Singapore was 13 hours.

**The flying display included:**

Republic of Singapore Air Force Republic of Singapore Air Force's integrated aerial display team comprising an F-15SG and an AH-64D Apache attack helicopter:

The Black Eagles from the Republic of Korea Air Force flying KAI T 50 training aircraft:

Airbus A350 XWB;

F-16C/D Fighting Falcon and C-17 Globemaster III, US Air Force;

Rafale, French Air Force; and

Sukhoi Su-30MKM, Royal Malaysian Air Force.

**Media Conference with the Black Eagles from the Republic of Korea Air Force**

A media conference was convened with the Black Eagles from the Republic of Korea Air Force following their impressive flying display for the media contingent on Sunday 14<sup>th</sup> February. 12 Black Eagles pilots were seated on stage, an interpreter, and their flying leader. Questioning was initially slow until a journalist asked the question 'Why are there no women sitting on the stage?' Upon relaying the question to the Black Eagles there was an immediate smile on each of their faces. The response from their leader was '...we are working on the matter and we expect to have a woman on the team within the next couple of years....' Subsequently, the leader continued that the team's youngest pilot was 32 and the

oldest 49 years of age –with an average age of 36 years. Air force jet fighter pilots can apply for this role after 800 hours flying jet fighters with a minimum sign up period of 5 years after gaining their aerobatic certification.

### **Jackie Chan: The case of the Missing Dragon**

Action movie star Jackie Chan, already the owner of a spectacularly dragon-liveried Embraer Legacy 650, took delivery in February, 2016 of the first Legacy 500 business jet in China. 'Jackie is not only a world renowned star, business elite and philanthropist, but also Embraer's long term partner, loyal customer and brand ambassador' said Guan Dongyuan, senior VP Embraer and president Embraer China. The range of Embraer business jets were on display at Singapore Airshow 2016.

**2016 Diary:** **Aug 18:** AIAA 2016 Distinguished Lecture Program: Presentation entitled 'The Future of US Planetary Exploration' by Dr. Randii Wessen: A-Team Lead Study Architect at NASA JPL Innovation Foundry. **Venue:** Abercrombie Building Auditorium, University of Sydney - Darlington Ln, Darlington - 18:15 for 18:30 hours start [Click here for registration, venue map and more information on Eventbrite.](#)

**Aug 28:** RAAF Air Training Corps / Australian Air Force Cadets - Freedom of Entry to the City of Sydney parade for No. 3 Wing AAFC at the Royal Botanical Gardens Parade Ground commencing 10:00 hours followed by a march along Macquarie Street to the Sydney Opera House where the challenge will take place. Celebrating 75 Years (1941-2016).

**Aug 30 (Tuesday):** Commodore Chris Smallhorn, RAN Fleet Air Arm Commander, to discuss the new helicopter carriers – HMAS Canberra Landing Helicopter Dock 1 (LHD 1) and HMAS Adelaide LHD 2. Details being finalised.

**Sept 1:** Australian Division luncheon with Mr John Borghetti FRAeS, CEO Virgin Australia, being interviewed by media personality Ticky Fullerton. Please refer to attached flyer for details. Registration can be made at: [www.eventbrite.com/e/lunch-with-john-borghetti-tickets-25749099249](http://www.eventbrite.com/e/lunch-with-john-borghetti-tickets-25749099249)

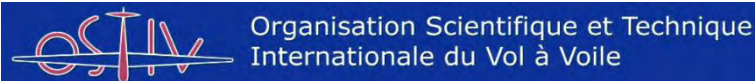
**Sept 13:** Engineers Australia has planned a visit to RAAF Base Richmond. Refer details at: <https://www.engineersaustralia.org.au/portal/event/raaf-base-richmond-technical-presentation-workshop-visit>

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

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

**Oct 25-27:** APISAT 2016 in Toyama, Japan – refer details at: [www.jsass.or.jp/apisat2016](http://www.jsass.or.jp/apisat2016)

**Dec:** Annual General Meeting and "Hot Aeros in the Pub". Venue: 3 Wise Monkeys.



**Jan 8 – 13, 2017:** The XXXIII OSTIV Congress will take place in Benalla NSW in conjunction with the 34th FAI World Gliding Championships

in the Open, 18m and 15m Classes. There are 3 OSTIV panels: Meteorology, Sailplane Development, and Training and Safety. Much of the technology used in gliders today has been influenced by the work and shared knowledge of these panels – refer details at: <http://ostiv.org>

**Feb 26 – Mar 2, 2017:** In conjunction with AVALON2017 (see below) will be the 17<sup>th</sup> Australian International Aerospace Congress (AIAC17) being held at Melbourne Cricket Ground on 26 – 28 February 2017 and the Technology Presentations at AVALON2017, 1 - 2 Mar 17. Refer details at: [aiac17.com/](http://aiac17.com/)

**Feb 28- Mar 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-ED3.html](http://airshow.com.au/airshow2017/enews/AS2017-Newsletter-ED3.html)

**Aug 14-29, 2017:** 'Total Solar Eclipse Tour' Including visits to famous USA Astronomical and Aerospace Facilities. For further details please contact The Sutherland Astronomical Society Inc. Email: [info@sasi.net.au](mailto:info@sasi.net.au)

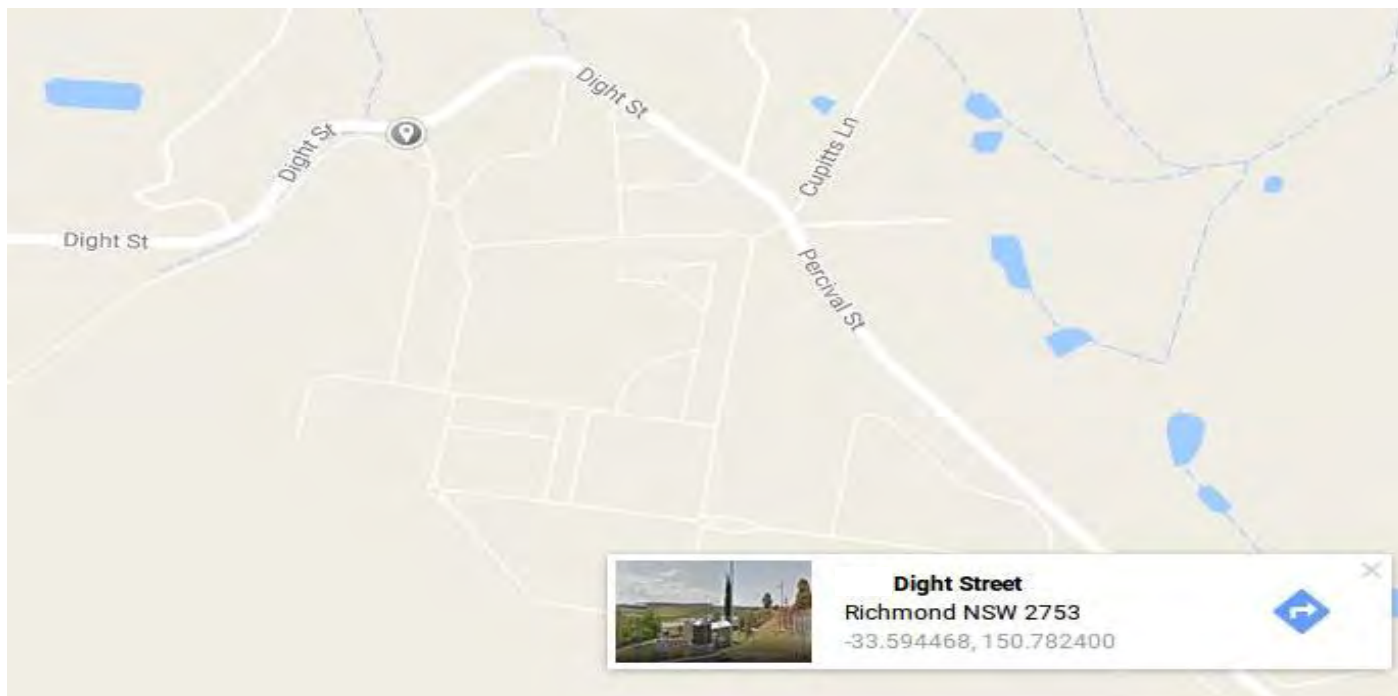
**Sept 25-29, 2017:** The 68<sup>th</sup> International Astronautical Congress – **Unlocking imagination, fostering innovation and strengthening security**– is being held in Adelaide. Thousands of scientists, including some 200 astronauts, will participate in the international space congress. The global 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/](http://iac2017.org/)

### RAAF Base Richmond NSW - Visit Form

**Assembly point:** Members are to meet in the RAAF Visitors Carpark, Dight Street, Richmond NSW - (adjacent to the base and adjacent to the C130 Hercules tail by the roundabout) – refer to map below.



If you wish to attend the visit to RAAF Base Richmond on Saturday 27<sup>th</sup> August, 2016, 11.30 hours sharp and you are an Australian Citizen, please complete this form and scan/email to Bryan Stade: [bryanstade@gmail.com](mailto:bryanstade@gmail.com) by close of business Thursday 18<sup>th</sup> August, 2016.

The completed forms will be forwarded to RAAF Base Richmond for security checking for the 15 successful RAeS members. **On the day the attendees must produce photo ID (eg, passport or Driver Licence) and Eventbrite ticket to gain entry to RAAF Base Richmond.**

**RAeS Membership Number:**.....

**Title:** .....

**Surname:** ..... **Christian names:** .....  
(as shown in your current passport or driver licence)

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

**Please note:**

- Access will only be granted to Australian Citizens.
- Visitors are required to wear long sleeve shirts, long pants, and enclosed footwear to be granted access beyond the Security office.
- No photography is allowed beyond the Security office and all personal electronic devices including mobile phones, cameras and smart watches will not be allowed on the hangar floor.
- Further entry conditions may be applied and visitors will be advised as the additional entry conditions arise.



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AUSTRALIAN DIVISION SYDNEY BRANCH INC

**30<sup>th</sup> AUGUST 2016**

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Web: [www.raes.org.au](http://www.raes.org.au)

Email: [sydneybranch@raes.org.au](mailto:sydneybranch@raes.org.au)

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

**NEWSLETTER**



**Commodore Chris Smallhorn**  
**The Commander Fleet Air Arm**  
**Royal Australian Navy**

discussing

**'RAN Fleet Air Arm Tomorrow'**

Date: **Tuesday 30<sup>th</sup> August, 2016**

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

Venue: **Mech Eng Theatre, Mech Eng Building**  
**University of Sydney**



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

**Profile:** Commodore Chris Smallhorn was born in Toowoomba, Queensland and attended the Toowoomba Grammar School before joining the Navy in 1987.

Chris graduated from the Australian Defence Force Academy and Royal Melbourne Institute of Technology with a Bachelor of Aerospace Engineering and completed his Aeronautical Engineering Certificate of Competency prior to conducting pilot training and earned his wings in 1993.

Chris conducted operational deployments flying the S-70B-2 Seahawk helicopter. He was selected for Experimental Test Pilot training at the United States Naval Test Pilot School in 1998, prior to being posted to the Navy's Aircraft Maintenance and Flight Trials Unit (AMAFTU). Whilst here he conducted flight testing on multiple Australian and international flight test projects, major aircraft acquisition, modification and research programs.

Chris was the Officer-in-Charge of AMAFTU in 2003 before being promoted to Commander when he became the Project Manager of the Super Seasprite acquisition program. He commanded 816 Squadron (Seahawk helicopters) throughout 2008 and 2009.

Following a short tour as the Commander of Operational Airworthiness and Standards at HQ Fleet Air Arm Chris was promoted to Captain and completed postings as the Chief of Staff Fleet Air Arm and Chief of Staff to the Chief of Navy. He graduated as a Fellow of the Centre for Defence and Strategic Studies in 2014 prior to assuming duties as the Director of the Maritime Safety Bureau in Jan, 2015.

CDRE Smallhorn maintains a keen interest in Civil Aviation safety. He is a Director of Safeskiies Australia, which delivers an international aviation safety conference in Australia on a bi-annual basis. He enjoys supporting not-for-profit emergency medical and search and rescue organisations and has flown their aircraft for numerous years on weekends and during leave periods, thus maintaining flying recency in aviation operations.

Commodore Smallhorn relinquished command as Director Maritime Safety Bureau in December 2015 and assumed duties as Commander Fleet Air Arm 20 January 2016.

**Synopsis:** Commodore Smallhorn will talk on the Royal Australian Navy's Fleet Air Arm.

**Fleet Air Arm:** The Fleet Air Arm, formerly known as the Australian Navy Aviation Group, is one of the Forces within Fleet Command. It brings together all the key elements which provide the RAN with its aviation force and provides the Naval Aviation capabilities required to fight and win at sea, and to

contribute to military support operations. The Forces' focus is on mission effectiveness, reliability, sustainability and safety. The group Headquarters is located at HMAS *Albatross*.

The Fleet Air Arm's responsibilities are to the Chief of Navy for the whole of life, whole of capability management of Naval Aviation, and to the Commander Australian Fleet for delivering aviation capability. HMAS *Albatross* operates the Naval Air Station which is integral to the development and operation of Naval Aviation. The collocation of the Navy Aviation Systems Program Office and the Training Authority - Aviation at Nowra has greatly improved the focus and delivery of Naval Aviation.

**Current Aircraft:** Following is a list of Aircraft currently commissioned into the Royal Australian Navy or currently undergoing trials and certification for acceptance into Australian service.

Name	Type
AS 350BA Squirrel	Light utility helicopter
Bell 429	Training and utility helicopter
MH-60R Seahawk	Anti-submarine/ Anti-surface/ Search and Rescue
MRH-90 Taipan	Multi Role Helicopter
S-70B-2 Seahawk	Anti-submarine helicopter

**RSVP:** Whilst attendance is free - registration for the evening **is required**. Please register by clicking on/copying and pasting into your URL this link: <http://raesaug16.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.

**Dinner:** Following the presentation the Committee will take Commander Smallhorn to dinner at the nearby **Buon Gusto Italian Restaurant, 368 Abercrombie Street, Chippendale. Attendees are encouraged to join in. Cost will be approximately \$40 pp including soft drink & wine.**

**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 University 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.

**Lunch with Mr John Borghetti FRAeS:** The second Australian Division Senior Business Leaders Lunch will be held in Sydney on **Thursday 1<sup>st</sup> September, 2016, 12:00 hrs sharp, Ballroom 1, Four Seasons Hotel, 199 George Street, Sydney.**

**Mr John Borghetti FRAeS, Chief Executive Officer, Virgin Australia will be interviewed by media personality Ticky Fullerton.** For full details please refer to the attachment including how to register for the event.

**UPDATE: There will be one door prize of a return Business Class ticket to Los Angeles for two. The door prize will be drawn during the lunch and the winner must be in attendance.**

**Singapore Airshow 16– 21 February 2016 (continued):** The 5<sup>th</sup> Singapore Airshow Aviation Leadership Summit 2016: The 5<sup>th</sup> Singapore Airshow Aviation Leadership Summit 2016 was held prior to the Airshow which brought together key stakeholders in aviation, top government representatives, civil aviation authorities, senior executives of airlines, aircraft manufacturers, and heads of International Civil Aviation Organisation, and International Air Transport Association. The theme was *Aviation Tomorrow: Managing New Challengers, Realising New Potentials*. At the opening dinner speech Mr Tharman

Shanmugaratnam, Deputy Prime Minister and Co-ordinating Minister for Economic and Social Policies commented:

- Aviation plays a special role in our economic future, globally;
- Aviation is a real opportunity, a bright spot in the future. It is a sector that even by conservative projections has the potential to grow substantially in the next decade and beyond;
- The reasons for this has to do with the changing face of Asia. Rising affluence and rapid expansion of the middle-class is growing the demand for travel exponentially. It is not surprising that China has made aviation links a key part of its 'One Belt, One Road' initiative.
- The lower oil price is a boom to airlines. The industry has to make use of this opportunity to capitalise on new technologies, For example, big data can be harnessed for predictive maintenance, analysis of customer habits to provide better relationships with customers, and to improve productivity at airports, in aerospace, in airlines, and to open the skies further – going beyond the significant advances of the last two years;
- Aviation safety must continue to take top priority in both domestic and international policy making, and we should not let politics lead us to decisions that compromise safety;
- Singapore's end-goal is not the success of Singapore Airlines, but the vibrance of the Singapore air hub. Today a good number of the routes out of Changi are served only by foreign airlines;
- Singapore is investing in a major expansion of airport capacity with a fourth and fifth passenger terminal, and a three runway system; and
- Skills have special importance for us in Singapore. The Government is working to develop talent for the aviation sector through our national SkillsFuture initiative. We are presenting SkillsFuture Aviation Study Awards to an inaugural batch of 20 mid-career individuals with an average age of 41, some with no previous tertiary education and some with degrees.

**Rolls-Royce Developing New Engines in Singapore:** Rolls-Royce is continuing to ramp up production at its Seletar Singapore, engine assembly plant at it works to develop the new Trent 7000 (that will power the Airbus A330neo) and new technologies for future engines. The Seletar plant assembled 80 engines last year, a mix of Trent 900s and Trent 1000s, and is working to achieve its target of 250 engines per annum by the end of 2017.

Rolls-Royce also make fan blades at Seletar for Trent 900, Trent 1000, and Trent XWB engines. Bicky Bhangu, Rolls-Royce Director for Singapore, says it produced 3,100 fan blades last year and is ramping up production to achieve annual production of 7,600 blades by end of 2017.

Seletar is an historic airport built for the Royal Air Force in 1928. It has grown from being in the shadow of Paya Lebar/Changi to being a major centre for business aviation, aerospace manufacturing and services, and maintenance repair and overhaul (MRO). It is the key facility surrounding Seletar Aerospace Park (SAP), which houses most of those industries, and is the premier cluster for Singapore's growing aerospace industry.

**Low-cost Scoot is living the Dreamliner:** Boeing has hailed Singapore based Scoot's switch to an all-787 fleet as proof that the Dreamliner is well suited to low-cost as well as full-service airlines.

At a press conference at the show Boeing Commercial Airplanes vice-president marketing Randy Tinseth said the 787 can be 'easily configured' for budget airlines. Scoot operates a fleet of 10 787s – six 9s and four 8s. It has another ten 787s on order. Scoot's 787-8s are configured in a 314 seat economy and 21 seat business, while its larger -9s have 340 economy and 35 business. Scoots had a new 787-9 at the airshow and we were able to view this configuration. Very compact but more suited to shorter flights rather than the 6+ hours flights to India.

#### **May 2-5 AUVSI's XPONENTIAL 2016:**



The Association for Unmanned Vehicle Systems International hosted XPONENTIAL 2016 Unmanned Systems Show, in New Orleans, Louisiana, USA.

The host for all the formal sessions was Mr Miles O'Brien, PBS Newshour Journalist, and a veteran journalist who focuses on

Science, Technology and Aerospace. Born in Detroit, now a resident of Washington DC, Miles 56, lost his left arm in 2014 due to acute compartment syndrome after a heavy equipment case fell on it while on assignment in Asia. In January, 2016 he was honored with the Aviation Inspiration and Patriotism Award at the 13<sup>th</sup> Annual Living Legends of Aviation Awards.

**Need a Job? Talk to Northrop:** Northrop Grumman is hiring. That's the message for Xponential 2016. On their booth were examples of the company's groundbreaking work unmanned technology – model of

the Global Hawk – able to fly at 50,000 feet for up to 10,000 miles at a time and a model X-47B-the first unmanned craft to take off and land on an aircraft carrier. (Its aim was so precise that its wheels dug grooves into the ship's deck and the landing co-ordinates had to be changed.) The X-48B was the first UAS to be re-fueled in flight, by a manned tanker, last year. 'One of our focuses of the show is to attract talent' said Renee Freeland, Communications Manager, Autonomous Systems, MQ-4C Triton. 'The potential is all in the people we hire'. Northrop Grumman will be at Avalon2017. Renne can be contacted at: [rene.freeland@ngc.com](mailto:rene.freeland@ngc.com)

**2016 Diary:** **Aug 18:** AIAA 2016 Distinguished Lecture Program: Presentation entitled 'The Future of US Planetary Exploration' by Dr. Randii Wessen: A-Team Lead Study Architect at NASA JPL Innovation Foundry. **Venue:** Abercrombie Building Auditorium, University of Sydney - Darlington Ln, Darlington - 18:15 for 18:30 hours start [Click here for registration, venue map and more information on Eventbrite.](#)

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**Oct 25: 58<sup>th</sup> Sir Charles Kingsford Smith Memorial Lecture** to be given by Mr Mike Sinnett, Vice President of Engineering and the Chief Project Engineer for the 787 program, the Boeing Company. The evening will celebrate both the 100<sup>th</sup> Anniversary of the Boeing Company and the 150<sup>th</sup> Anniversary of the RAeS. Details being finalized.

**Oct 25-27:** APISAT 2016 in Toyama, Japan – refer details at: [www.jsass.or.jp/apisat2016](http://www.jsass.or.jp/apisat2016)

**Nov 6:** Host **Ray Martin** presents live on stage, Apollo Legend and Mars advocate **Buzz Aldrin**, with leading authorities from US and European global space agencies including **Prof. Mark McCaughrean** Senior Science Advisor European Space Agency – Hordern Pavilion, 1 Driver Ave, Moore Park, Sydney. Refer details at: [http://events.nationalgeographic.com/speakers/2016/11/06/mars-sydney/?utm\\_source=NatGeocom&utm\\_medium=Email&utm\\_content=NG\\_Live\\_AU\\_20160814&utm\\_campaign=Events&utm\\_rd=2001867487](http://events.nationalgeographic.com/speakers/2016/11/06/mars-sydney/?utm_source=NatGeocom&utm_medium=Email&utm_content=NG_Live_AU_20160814&utm_campaign=Events&utm_rd=2001867487)

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