



**ROYAL  
AERONAUTICAL  
SOCIETY**  
AUSTRALIAN DIVISION  
SYDNEY BRANCH

**AUGUST 2017**

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PO Box 573, Mascot, NSW 2020

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

**NEWSLETTER**



**Captain Alex Passerini**  
**Chief Technical Pilot**  
**Qantas Flight Operations**  
presenting

**'Introduction of the  
Boeing 787 into Qantas  
Operations'**

Date: **Tuesday 29<sup>th</sup> August, 2017**

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

Venue: **Ainsworth Building (Map Ref J17), Ground Floor Lecture Theatre G03  
University of New South Wales**

Refreshments will be available from 18:00 hours Attendance for the evening will attract 2 CPD hours.

**SYNOPSIS:** An overview of the Boeing 787 airplane, introduction into Qantas operations, and preparing for Perth to London operations.

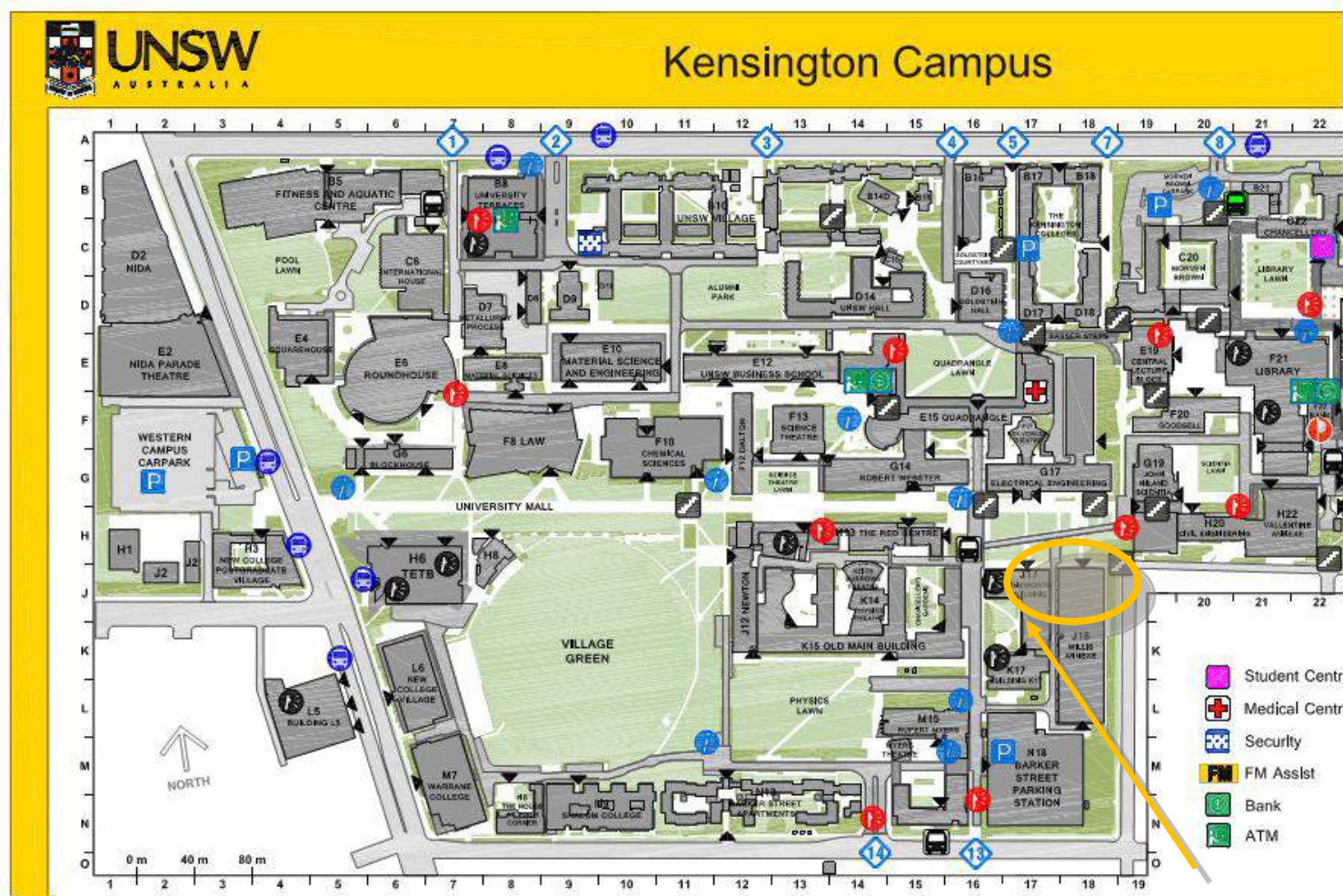
**PROFILE:** Captain Alex Passerini is Chief Technical Pilot at Qantas, based in Sydney Australia. The Fleet Operations Technical group Alex oversees is made up of technical pilots, technical coordinators, publications and EFB Administration and support staff who collectively contribute to continued safe, comfortable and efficient flying operations on Qantas' fleet of A380, A330, B787, B747 and B737 aircraft. Currently flying the B787, Alex and his team have led deployment of RNP, GLS and HUD in Qantas operations. In addition to these technologies, the team have led EFB development on the iPad since 2012.



**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://raesaug17.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.

**Light supper:** Following the presentation light supper (pizzas) will be provided to give the speaker and attendees the opportunity to mingle and to continue discussions.

**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](http://www.facilities.unsw.edu.au/sites/all/files/KENC%20Campus%20Map_5.pdf) - ref J17)



**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](http://www.sydneybuses.info/routes/timetables-route-maps)

**ROYAL AERONAUTICAL SOCIETY AUSTRALIAN DIVISION:**

invites you to lunch with Kerrie Mather, Sydney Airport Managing Director and CEO, who will speak on 'Driving growth in a global economy' – Wednesday 16<sup>th</sup> August, 2017- 12:00 – 14:00 hours – James Cook Ballroom, InterContinental, Bridge Street, Sydney. Bookings: <https://sydairportlunch17.eventbrite.com.au>



**Membership Information:** Annual memberships commence at only \$145 or \$28 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>

## 59<sup>th</sup> Sir Charles Kingsford Smith Lecture and Annual Branch Dinner

Will be held on Wednesday 18<sup>th</sup> October, 2017 at the Powerhouse Museum, 500 Harris Street, Ultimo commencing 18:00 hours and will be presented by:

**Jayne Hrdlicka FRAeS**  
**Jetstar Group Chief Executive Officer**



who will speak about the future direction of commercial aviation, including the developing trends in low cost carrier operations and the inter-relationship with full service operators.

Jayne Hrdlicka was appointed Group Chief Executive Officer of Jetstar Airways Pty Limited on 1 July 2012 which is the Qantas Group's low fares airline brand. Headquartered in Melbourne, the Jetstar Group includes international and domestic operations in Australia and New Zealand. With its partners, the Jetstar Group also includes airlines in Singapore, Japan and Vietnam. In total, the Group flies to 85 destinations in 18 countries with a fleet of 129 aircraft. Jayne joined Qantas in August 2010 as Group Executive Strategy and Information Technology.

Jayne holds an MBA from Dartmouth College, New Hampshire USA and a Bachelor of Arts degree in Mathematics and Economics from the Colorado College, Colorado USA. In addition to her role at Jetstar, Jayne is a Board Director of Tennis Australia, a Member of the UN Women Private Sector Leadership Advisory Council, a Member of Chief Executive Women, and a Member of the Scotch College Council in Melbourne.

This Prestigious Lecture and Dinner is sponsored by:



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Dinner Dress: Black tie or lounge suit. The Committee looks forward to your company.

**Please save the date.** To register and make payment please click on/copy and paste into your URL this link: <http://raesks17.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.** Anyone who does not have access to the internet or prefers to pay manually by cheque/credit card can complete the form on the last page of this newsletter and send to The Dinner Secretary, Mr Jeff Lock, 4 Hillcrest Place, North Manly NSW.

**B-29s – “Doc” and “Fifi” Flying Together at Oshkosh 2017:** The only two flying B-29 Superfortresses in the world took to the skies together at the 2017 EAA AirVenture airshow in Oshkosh, WI. (This is Doc's first visit to Oshkosh after a lengthy restoration.) The aviation community has waited years to see this: two airworthy Boeing B-29 Superfortresses in the air together at the same place. It is thought that this hasn't happened in 60 years – and at Oshkosh 2017 the crowd witnessed a memory they'll never forget. To view the video click: <https://www.youtube.com/watch?v=AsZ-lqjzBUE>

**2017 Luigi G. Napolitano Award – Call for Applications:** The International Astronautical Federation has announced the opening of the Call for Applications for the 2017 Luigi G. Napolitano Award. This award is assigned every year to a young scientist (below 30 years of age) who has significantly contributed to the advancement of the Aerospace Science. The Award consists of the Luigi G. Napolitano commemorative medal and a certificate of citation. It is given every year at the International Astronautical Congress which this year is being held in Adelaide 25-29<sup>th</sup> September. Applications close 31 August, 2017. For more information refer: [Luigi G. Napolitano Award](#)

**Closed Member Only Group on Facebook:** Sydney branch is trialling a live video streaming service of monthly branch lectures. Watch lectures live or at a later time, at the “Royal Aeronautical Society - Sydney Branch - Members Only” group within Facebook. Please note that this service is only available to financial members of the Royal Aeronautical Society.

**Airbus delivers its 100<sup>th</sup> A350 XWB – 26 July 2017:** Airbus has delivered its 100<sup>th</sup> A350 XWB, just some 30 months after the first delivery of the world's most modern widebody aircraft in December 2014. The 100<sup>th</sup>

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aircraft delivered is an A350-900 for China Airlines. “The 100<sup>th</sup> A350 XWB milestone comes as we reach our fastest widebody production ramp-up, on track to meet the target of 10 A350 deliveries per month by the end of 2018,” said Fabrice Bregier, Airbus COO and President Commercial Aircraft. “We are especially proud to deliver today’s aircraft to our long-standing customer China Airlines. The A350 is setting new standards for long haul air travel in terms of efficiency and comfort, thus being the perfect aircraft for China Airlines to expand its long-haul network.”

To date the A350 has been delivered to 14 airlines worldwide and is flying with an outstanding operational reliability rate of 99%. “This is a remarkable statistic at this early stage of the program,” Fabrice Bregier adds. The A350 XWB features the latest aerodynamic design, carbon fiber fuselage and wings, plus new fuel-efficient Rolls-Royce engines. Together, these latest technologies translate into unrivalled levels of operational efficiency, with a 25 per cent reduction in fuel burn and emissions, and significantly lower maintenance costs. As the founding member of “Airspace by Airbus” cabin brand, the A350 XWB cabin provides passengers and crews the best in comfort, well-being and technology.

The A350-1000 is the new member of the A350 XWB family and benefits from its high level of commonality with the A350-900. Scheduled for Type Certification and first Customer delivery in the fourth quarter of 2017, the A350-1000 is currently performing an intensive and successful flight test campaign. To date, Airbus has recorded a total of 847 firm orders for the A350 XWB from 45 customers worldwide, already making it one of the most successful widebody aircraft ever.

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**US-Australia Hypersonic International Flight Research Experimentation (HiFIRE) Program:** The HiFIRE program had at least one successful hypersonic flight at the Woomera testing range in South Australia recently following a round of experiments which concluded on 12 July, confirmed Australian Defence Minister Marise Payne. University of Queensland (UQ) hypersonics researchers collaborated with the Defence Science and Technology Group and US Air Force Research Laboratory, Boeing, and BAE Systems for test flights in July 2017. This vehicle is a free-flying hypersonic glider, designed to fly at Mach 8 (8000 km/hr). It is designed to separate from its rocket booster in space and perform controlled manoeuvres as it enters the atmosphere. The test flight was intended to learn how to fly a hypersonic vehicle at high altitude. BAE Systems Australia said in a statement that “the successful flight trial was the most complex of all HiFIRE flights conducted to date”. The \$54m joint initiative involves the US Air Force, Boeing, the Australian Department of Defence’s Defence Science and Technology Group, BAE Systems Australia, and the UQ. Boeing’s Kevin Bowcutt, Senior Technical Fellow & Chief Scientist of Hypersonics said “We’ve worked to advance innovative hypersonic vehicle design, develop advanced scramjet propulsion integration concepts and high-temperature materials, and ultimately flight tested hypersonic vehicles such as the X-43A, X-51A, and X-37. With the help of the partnership HiFIRE 4 yielded excellent results that exceeded expectations in flight control performance, helping advance our efforts to develop hypersonic vehicles for defense and possibly commercial use. These accomplishments are the building blocks for flight vehicles of the future.”

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**Aerospace Websites:** [www.57rescuecanada.com](http://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](http://www.adastron.com/707/updates/updates.htm) : Diary of Boeing 707-138B XBA formally Qantas EBA.  
[www.airshow.com.au](http://www.airshow.com.au) [www.atsb.gov.au](http://www.atsb.gov.au) [www.aviationmuseum.com.au](http://www.aviationmuseum.com.au) - Temora Aviation Museum;  
<http://boxkite2014.org/book/book.htm> : The Boxkite project.  
[https://en.wikipedia.org/wiki/Rolls-Royce Trent](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](http://www.powerhousemuseum.com/whatson) ;  
<http://qfom.com.au/> Qantas Founders Museum, Longreach, Qld <http://www.singaporeairshow.com/>

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**2017 Diary:** **Aug 16:** RAeS Aust Div ‘Luncheon with Kerrie Mather’ Sydney Airport Managing Director and CEO, who will speak on ‘**Driving growth in a global economy**’ – 12:00 – 14:00 hours – **James Cook Ballroom, InterContinental, Bridge Street, Sydney**. Refer Invitation attached. Bookings: <https://sydairportlunch17.eventbrite.com.au>

**Aug 14-29:** ‘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)

**Aug 17:** Women in Aviation/Aerospace Australia **Canberra** Summit. Refer details: [www.aviationaerospace.org.au](http://www.aviationaerospace.org.au)

**Sept 5:** The AIAA Sydney Student Branches is hosting their 2017 Student-Industry Networking Night which is being organised by student branches in the University of Sydney (AIAA-USSB), the University of New South Wales (AIAA-UNSW), and the recently-formed University of Technology Sydney (PAAS-UTS). The event seeks to connect professionals with current high-performing engineering undergraduates. Please refer to flyer attached for details and: <http://aiaassb.com.au>

**Sept 21:** Astronaut Stories Australia - Joint meeting with AIAA, AYAA, RAeS, University of Sydney, and supported by The Powerhouse Museum. Join us on the 21st September 2017 for an evening of astronaut stories, a free public event. You are invited to listen and ask your questions to our astronaut panel. The panel will be mediated by Author, Radio host, Science communicator and astronomer Fred Watson and the venue is Abercrombie Business School, University of Sydney. Please refer to the 2<sup>nd</sup> flyer attached for details. Further information is available at facebook page: <http://www.facebook.com/astrostoriesaus> Please register and stay tuned for more!

**Sept 25-29:** 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. Refer details at: [iac2017.org/](http://iac2017.org/)

**Oct 18:** **59<sup>th</sup> Sir Charles Kingsford Smith Memorial Lecture to be delivered by Jayne Hrdlicka, Chief Executive Officer, Jetstar. Venue Powerhouse Museum, Ultimo.**

**Oct 18:** Women in Aviation/Aerospace Australia **Victoria** Summit. Refer details: [www.aviationaerospace.org.au](http://www.aviationaerospace.org.au)

**Nov 14-16:** 5<sup>th</sup> International Conference on Aerospace Science & Engineering (ICASE). Refer details: [www.ist.edu.pk/icase](http://www.ist.edu.pk/icase)

**Nov 29:** To be confirmed.

**Sept 9-14, 2018:** 31<sup>st</sup> Congress of the International Council of the Aeronautical Sciences, Belo Horizonte, Brazil. Call for papers (abstracts only) close 15th July, 2017. Refer details: <http://icas.org/media/ICAS2018CallforPapers.pdf>

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

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

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