

The Melbourne Branch of the Royal Aeronautical Society

Newsletter

March 2010



From the Editor

Last month's event with Aerosonde was unfortunately cancelled due to a last minute, unforeseen speaker availability issue. We are still working to reschedule the event a little later this year. We apologise for any inconvenience caused.

This month we have two significant events. On April 8, we have a presentation under the Joint RAeS/Engineers Australia Board for Aerospace Engineering Eminent Speaker Series by Mr. Fred Abbink who is the General Director at NLR in the Netherlands. On April 12, we have Richard Woodward, a QANTAS A380 captain who has had a very diverse flying career, and who was Dux of the Empire Test Pilots School in 1982.

We're holding over the monthly *News Brief* segment, as we have a number of other announcements for April. The segment will return next month. Also this month, *The Transponder* interviews Mr. Rob Behan, a stress & design engineer, who was also the winner of the prestigious 2007 Kernot Medal from RMIT University.

Best Regards,
Luke Webb

The Melbourne Branch would like to wish you and your family a safe and enjoyable Easter break.

April Event #1

Survival of the Fittest: 90 Years of Dutch Aeronautics - RDT&E in a Globalising Environment



Presented by: Mr Fred Abbink, General Director, The Netherlands National Aerospace Laboratory

Date: Thursday 8th April 2010

Time: 6.00pm for 6.30pm Start

Where: Engineers Australia Auditorium, 21 Bedford St, North Melbourne

Cost: Free—register via www.raes.org.au

RSVP & More Information:

Register via www.raes.org.au

See Page Two for more information

April Event #2

Empire Test Pilot School to A380 Pilot: From 50 knots backwards to a 1000 knots forward!

Presented by: Mr Richard Woodward
A380 Captain, QANTAS Airways

Date: Monday 12th April 2010

Time: 6.00pm for 6.30pm Start

Where: Engineers Australia Auditorium, 21 Bedford St, North Melbourne

Cost: FREE! All welcome.



Currently a Qantas Airbus A380 Captain with more than 16,000 flying hours, Richard Woodward started his flying career by winning a RAAF Flying Scholarship through which he gained a PPL in 1971/1972. Richard joined the RAAF in March 1973 graduating from No 89 Pilot's Course at RAAF Pearce in July 1974. Having qualified as a flying instructor at RAAF Sale in 1979, and following a tour of instructing, Richard Woodward was posted to the Empire Test Pilots' School at RAF Boscombe Down in the UK in 1982 where he was the Dux of his course. Richard joined Qantas 1987 since which time he has flown Boeing 747s and 767s, Airbus A330s and now the A380 in airline operations. In addition to his flying duties, Richard is the Executive Vice President Technical Standards and an Executive Board Member of the International Federation of Air Line Pilots' Associations.

EMINENT SPEAKER SERIES

Hosted By: ROYAL AERONAUTICAL SOCIETY AUSTRALIAN DIVISION & THE COLLEGE OF ELECTRICAL ENGINEERING

Mr Fred Abbink

General Director, The Netherlands National Aerospace Laboratory

Date: Thursday 8th April 2010

Time: 6.00pm for 6.30pm Start

Location: Engineers Australia Victoria Division Auditorium
21 Bedford St, North Melbourne

RSVP: Please click here to [Register Online](#) or Ph 02 6270 6548



Topic: Survival of the Fittest: 90 Years of Dutch Aeronautics - RDT&E in a Globalising Environment

In 1919 Royal Dutch Airlines – KLM, Fokker Aircraft Industry and The National Aerospace Laboratory – NLR, were founded. In the following 90 years, many political and technological developments have shaped KLM, Fokker and NLR into today's form and structure. These developments have included the consolidation of the multiple national aircraft industries, through National Champions and Joint Ventures between National Champions into European aerospace industries; the consolidation of the multiple national airlines, through national flag carriers, airline alliances and mergers into global airlines; the consolidation of Europe and the development of European organisations and agencies; and the development of European and international cooperation in aeronautical research.

Fred will address the NLR RDT&E support of the Dutch Military Forces in the field of threat analysis, self protection, training and maintenance, as well as helicopter-ship qualification; Fokker in the field of aerodynamic design, structural testing and flight testing of the Fokker F.27, F.28, Fokker 50 and Fokker 100, and the support in composites design and qualification in the period after the Fokker bankruptcy in 1996; and the Schiphol Airport and ATC The Netherlands in order to increase the airport capacity, within the (legal) boundaries of safety, noise and emissions. Furthermore it will address how NLR increases its RDT&E effectiveness and efficiency by increased participation in the EU Framework Programmes, AGARD/RTO, GARTEUR, ACARE and the Association of European Research Establishments in Aeronautics, and in the field of wind tunnels, by jointly building, operating and exploiting large wind tunnels.

His experience of the Netherlands situation will provide valuable lessons for the Australian Aerospace industry to mirror in the development and implementation of new technology to support the industry, both civil & military in changing environments.

About the Speaker:

Fred Abbink is the General Director of the National Aerospace Laboratory of The Netherlands (NLR). He graduated in Electrical Control Engineering from the Technical University Delft in 1968 after which he served in the Royal Netherlands Navy as a project engineer on a number of avionics projects. He became head of NLR's flight testing & helicopters department in 1981 responsible for helicopter, avionics & military operations research and accident investigation. He became the Technical Director in 1988 and General Director in 2005 with a brief absence due to an appointment at the German Aerospace Centre.

Mr Abbink has served as part-time & visiting professor at many prestigious Universities across the world. He was the President of the International Council for the Aeronautical Sciences (ICAS) between 2006 & 2008 and currently continues a number of Officer Bearer roles on other National & International Aerospace bodies. Mr Abbink is an Officer in the Order of Oranje Nassau, Fellow of the American Institute of Aeronautics and Astronautics (AIAA), Member of the French Académie Nationale de l'Air et de l'Espace (ANAE), Member of the Netherlands Academy of Technology and Innovation, and Honorary Member of the TU-Delft Aerospace Students Association Leonardo Da Vinci.

Sponsored By:



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Members of Engineers Australia can choose to record CPD hours for attendance at this event. Members should refer to Engineers Australia's CPD Policy for requirement details and conditions



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APISAT-2010—Call for Papers

The 2010 Asia-Pacific International Symposium on Aerospace Technology (APISAT-2010) is the collaborative endeavour among the Chinese, Australian, Korean and Japanese Societies for aerospace technology. The symposium, hosted by Chinese Society of Aeronautics and Astronautics, will be held from September 13 to 15, 2010 in Xi'An. The symposium provides the opportunity to Asia-Pacific nations not only for the researchers of universities and academic institutes, but also for the industry engineers, to discuss the current and future advanced topics in aerospace engineering.

Authors should submit abstracts which are in the form of a paper summary consisting of 400-500 words. The abstract should describe objectives, results, conclusions, innovative steps and the significance of your work. Prospective authors should submit electronically at

<http://www.csaa.org.cn/apisat2010/>

Abstracts are due by May 20, 2010. APISAT 2010 is co-sponsored by RAeS Australia Division.

Australia's Space Capability

Invitation for Written Submissions:

The Department of Innovation, Industry, Science and Research (DIISR) is currently undertaking a study into Australia's capability in its niche space industry. Ultimately, the study will help form the development of a new National Space Policy. A series of workshops was recently held around the nation, and the study's authors are now seeking written submissions from members of Australia's space sector.

Background information and the mandatory submission template are available by contacting Tara Ruffles at truffles@skm.com.au. More information is also available at www.space.gov.au

Submissions close at 5pm, Wednesday 14th April 2010.

RAAF 90th Celebrations

The 2011 Australian International Airshow and Aerospace & Defence Exposition will be the centrepiece of celebrations for a milestone in Australia's aviation history. The Royal Australian Air Force, one of the oldest independent air forces in the world, will celebrate its 90th anniversary at Avalon.

Aircraft from around the world will attend the Airshow to help mark this important occasion, along with leaders from Air Forces from across the globe. The 2011 Australian International Airshow will celebrate the history of the RAAF and highlight the leading role it will continue to play over coming decades in the Asia Pacific region.

→ On March 31, the Royal Australian Air Force celebrated its 89th anniversary.

Help Your Industry!

As always, the Melbourne Branch is on the look-out for enthusiastic people to join the team on the committee to organise events, write articles, promote activities, and bounce-around new ideas.

It's a great way to meet new people, establish contacts with other industry professionals, and be 'in the know' about what's happening in the industry in Victoria, Australia, and the globe. Also, it's a great way to help put back something into your industry, and to help drive our local industry to be the best it can be.

No experience required—just enthusiasm! Send us an email (melbournebranch@raes.org.au) - we'd be delighted to hear from you.

Checklist

Supermarine Mk.VIII Spitfire flying at the RAAF Museum

The Temora Aviation Museum (TAM) owned and operated Ex-RAAF Supermarine Mk.VIII Spitfire A58-758 will be flown at Point Cook as part of the RAAF Museum's Interactive Flying Display (IFD) program on Thursday 01 Apr 10 and Thurs 08 Apr 10.

The IFD commences at 1300 and is subject to aircraft serviceability, pilot availability and weather.

See <http://www.airforce.gov.au/RAAFMuseum> for more information

Tyabb Airshow

On Saturday 18th April, the Peninsula Aero Club will be running the 2010 Tyabb Airshow. The theme for this year's airshow is "A Century of Aviation in Australia".

Visiting aircraft include the C.A.C Wirraway, the CA-28 C.A.C Ceres, the de Havilland Vampire, and the C.A.C. CA-18 Mustang.

Tickets and information on visiting aircraft are available online at <http://www.tyabbairshow.com.au>

Branch Committee

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Opinions expressed in this newsletter do not necessarily represent those of RAeS, the Melbourne Branch or the Editor. Promotion of external events does not imply endorsement by RAeS.

Contributions and feedback are welcomed (however we cannot guarantee publication). Contributions highlighting Australian developments, innovations and ideas in aeronautics are most encouraged.

The Transponder



Name

Rob Behan

Job Title

Design & Stress Engineer

Company/Organisation

GKN Aerospace Engineering Services

How would you describe yourself?

Innovative, dedicated, a touch quirky

Education & Background

Graduated from RMIT December 2006 with a Bachelor of Engineering in Aerospace and a Bachelor of Applied Science in Aviation

When did you first know you wanted to work in aeronautics?

My family moved underneath the flight path of Essendon airport while I was in grade 3 (1991), somehow, that was enough to get me hooked.

Describe one of the most rewarding projects you have worked on.

The F35 Lightning II. Through my time on this project I was extremely

lucky to be able to work onsite at Lockheed Martin in Fort Worth for a year. While there I was able to watch all three variants come together piece by piece (including some that I had designed) and was fortunate enough to witness the first flight of BF-1.

Favourite aeronautical feat or moment?
Reaching the moon. I only wish that I had been around to see it as it happened.

Enjoy doing with spare time...

I am an amateur photographer, an activity that I like to concentrate on in my spare time. I am also an avid cyclist and take great pleasure in taking full advantage of the numerous bike paths in the inner and greater Melbourne/Geelong areas

Favourite Aircraft?

The H-1 Hercules (aka the Spruce Goose—the photo is of me at the controls), not so much for any huge technical achievement but the vision and obstacles overcome to bring this plane to fruition.

Favourite quote/nugget of wisdom?

“It must be Thursday.... I never could get the hang of Thursdays” Arthur Dent

What are your hopes for the future of aeronautics in Australia?

To see Australia become the next global powerhouse for cutting edge aerospace technology and skill.

If undeliverable return to:

**ROYAL AERONAUTICAL SOCIETY
MELBOURNE BRANCH**

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