

The Melbourne Branch of the Royal Aeronautical Society

# Newsletter

November 2010



## From the Editor

Last month's event with John Willis from GippsAero was a popular event, with a fascinating insight into how an aircraft, whose dimensions were defined by the size of a garage, is becoming a global success.

This month, Mr. David Farrar will be providing an Australian perspective on celebrations taking place this year in Bristol, UK, marking 100 years of aerospace in the region. Also this month, will be our AGM.

We are pleased to announce that Dr. Bill Schofield will be presenting this year's Hargrave Lecture & Dinner, to be held on December 6. This event is a timely reflection on the life of David Warren, the inventor of the 'black-box', who passed away this year.

Also in December, the RAeS will be joining with Engineers Australia in hosting Dr. John Hart-Smith who will be reflecting on a stellar career in aerospace structures.

With the year winding up fast, we'd encourage you to think about how you can make a contribution to the Branch in 2011—see page 3 for more information.

Best Regards,  
Luke Webb

## November Event—Bristol Centennial Celebrations

### 100 Years of Aeronautics in Bristol

**Presented by:** Mr. David Farrar

**Date:** Monday 8 November 2010

**Time:** 6pm for a 6:30pm Start

**Venue:** Engineers Australia Auditorium

**Address:** 21 Bedford Street, North Melbourne

Bristol 100 is celebrating 100 years of aircraft design and manufacture in the same location, a unique achievement. Two post-war Bristol aircraft were to prove of great value to Australia: Bristol helicopters, and the Bristol Freighter. Work on the post-war Brabazon aircraft led indirectly to the now familiar shape of long range passenger jets. Many problems arose and were overcome in this history, and there are some lessons for today.

In 1979, David became Director of the Centre of Engineering Design at Cranfield University and created with the Engineering Industry Training Board a series of Open Learning Modules for designer education and further education, and a long running series of short courses on the Management of Engineering Design. As consultant in the field, helped large companies to achieve major success, and companies of all sizes to make use of CAD/CAM technology.

David received the OBE for his work on Bloodhound I, and the teams which he led received four Queens Awards for exports and technology. He was an external examiner, South Bank University, former director of Engineering Science Data International, a member of Editorial Boards of 'Engineering Management International' and 'Professional Engineer', was the first Chairman of the Society of British Aircraft Constructors Guided Weapons Committee, a member of Royal Aeronautical Society council, served on many professional committees, and in retirement lectured for the Institution of Engineering Designers from whom he received an Honorary Fellowship.

## Opportunity for Students

The Asia Pacific Regional Space Agency Forum (APRSAF) will be held in Melbourne 23rd – 26th November 2010. This event will be co-hosted by the Department of Innovation, Industry, Science and Research (DIISR) and the Japan Aerospace Exploration Agency (JAXA) and promotes collaboration between the regions space agencies. To support this event, and expose university students to the industry, the Space Policy Unit is calling for 15 volunteers. Volunteers will assist with the smooth operation of the event and where space permits volunteers will be welcome to attend APRSAF events.



# \$9,000,000,000

*The expected sum total of global airline profits for 2010 (this compares with an earlier projection of global airline losses of \$5.6 billion for this year)*

(IATA/Flightglobal)

For more details including responsibilities and application details please visit <http://www.vssec.vic.edu.au/volunteers-needed-for-asia-pacific-regional-space-agency-forum/>

The Melbourne Branch of the Royal Aeronautical Society presents  
The 2010 Lawrence Hargrave Lecture & Dinner

# David Warren: the Scientist, the Black Box Saga and the lessons learnt

With Distinguished Lecturer

**Dr. Bill Schofield, AM**

Principal,

*Australian Aerospace and  
Defence Innovation Ltd (AADI)*



Dr Schofield AM is the current CEO of Australian Aerospace and Defence Innovation Ltd (AADI). Dr Schofield spent 37 years in DSTO holding a variety of scientific jobs including First Assistant Secretary Science Policy and Director of the Aeronautical and Maritime Research Laboratory where he was responsible for delivering DSTO's scientific and technical advice to the Royal Australian Navy and the Royal Australian Air Force. He has been a member of the board of Advanced Composite Structures Australia (ACS Australia).

## Lecture & Dinner Ticket Cost

RAeS & EA Members \$95

Non-Members \$130

Student RAeS & EA Members \$70

Student Non-Members \$80

## **Registrations required by Friday 26 November 2010**

Price includes three-course dinner, wine, beer, soft drinks, tea/coffee, and parking at the venue.

## To Register

Bookings can be made by visiting our website

<http://www.raes.org.au/december-melbourne-branch-hargrave-lecture>

Or by contacting Anthony Patti:

Phone: +61 (0)3 9647 3224

Email: [anthony.d.patti@boeing.com](mailto:anthony.d.patti@boeing.com)

**Monday 6 December 2010**

**6pm for a 6.30pm start**

River Room 2

Crown Entertainment Complex



## Aeronautical News Brief

### **BA launches alliance with Iberia, American Airlines**

British Airways launched its transatlantic alliance with Iberia of Spain and American Airlines on October 6, pledging cheaper fares and more travel choice as part of the cost-cutting initiative. BA, which is also close to a full merger with Iberia, said last week that the deal was worth a combined 7.0 billion dollars (5.1 billion euros) in annual revenues.

### **US gives go-ahead for Japan airline alliances**

US authorities on Wednesday gave the green light for Japan's two main airlines and their US partners to coordinate operations, a move it said would help lower air fares across the Pacific. Japan and the United States in December last year agreed on an "open-skies" deal, allowing the two countries' airlines to adapt to demand and ending a half-century accord that preset the number of flights.

### **Runway unveiled for world's first 'tourist' spaceship**

The world's first commercial passenger spaceship moved a step closer to takeoff, as tycoon Richard Branson unveiled a new runway at a remote New Mexico spaceport. Branson and New Mexico Governor Bill Richardson on Friday hosted a ceremony marking the completion of the main runway at Spaceport America, near the town of Las Cruces where the Virgin Galactic project is based.

### **Online Travel Sites Fight Against Google-ITA Deal**

A coalition that includes some of the biggest and most popular online travel sites launched a campaign on October 25 to oppose Google's proposed \$700 million acquisition of ITA Software, the flight search technology behind many of the Internet's most popular travel sites. The coalition says ITA provides the technology behind 65% of all carrier-direct online flight searches in the U.S., with clients that also include American Airlines, Continental Airlines, Southwest Airlines, United Airlines, US Airways and Virgin Atlantic.

[Sources: AFP, Aviation Week]

## Notice for 2010 AGM

Notice is hereby given that the Annual General Meeting for the Melbourne Branch will be held on Monday November 29, 2010.

The purpose of the AGM is to action our constitutional obligations and to devote time for the important interface between membership and the committee. All members are encouraged to attend the AGM to participate positively in advancing the works of the branch. If you wish to nominate for a position, we encourage you to complete the slip and either mail or email it (see bottom of page 3).

This year's AGM will be conducted in the same fashion as previous years. The Agenda for the AGM will include a tabling of Minutes of the 2009 Annual General Meeting, Chairman's Report (including reports on the year's events and membership), Honorary Treasurer's Report, Confirmation/Appointment of Committee structure for 2011, and any other business.

All members are invited to submit additional agenda items, or to nominate for committee positions.

**Date:** Monday 29th November

**Time:** 6.30pm start

**Venue:** Engineering House, 21 Bedford St, North Melbourne

## Vale William Joseph Gornall

The Society has been advised that William Joseph Gornall CEng FRAeS passed away on 29th August 2010. He was 84 years old.

According to the Society's records, he had been a member of the Royal Aeronautical Society for 62 years.

## 2011 Royal Aeronautical Society Melbourne Branch Committee Nomination

Mail To: The Royal Aeronautical Society, Melbourne Branch, Attn: Honorary Secretary, *C/-Engineers Australia, Suite 201, 21 Bedford St, North Melbourne VIC 3051*

Or email: [melbournebranch@raes.org.au](mailto:melbournebranch@raes.org.au)

Name \_\_\_\_\_

Membership Grade \_\_\_\_\_ Membership Number \_\_\_\_\_

Position Nominating for \_\_\_\_\_

Contact Number \_\_\_\_\_

Email Address \_\_\_\_\_

## Branch Committee

**Chairman:** Domenico Lombardo

**Hon. Secretary:**

Andrew Harrington

**Hon. Treasurer:** Anthony Patti

**Events Manager:** Crystal Forrester

**Asst. Events Manager:** Cynthia Chen

**Webmaster:** Stratos Patsikatheodorou

**Newsletter Editor:** Luke Webb

**Membership Secretary:**

Sherman Ting

**Committee Members:**

A/Prof. Cees Bil

Air Cdre Noel Schmidt

Karen Trezise

Amit Menghani

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**Websites:**

<http://www.raes.org.au>

<http://www.aerosociety.com>

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.

## December Event #2 with Dr. John Hart-Smith

### Lessons learned by one aerospace structures engineer in a 40-year career

This talk will look at some of the most important lessons about aircraft structures that the John has observed during a long career in the aircraft industry. The emphasis is on good ideas that have yet to be fully exploited. There are also warnings about bad ideas that should not be repeated. Past practices are shown to represent a very fertile source of good ideas that are still applicable today, even though some of them have fallen into disuse. The emphasis is on technical issues, but it is explained how many of them never would have become an issue if appropriate business practices had been followed.



Born and educated in Australia, Dr. L. J. Hart-Smith worked in the U.S. aerospace industry, with Douglas Aircraft and, ultimately, with Boeing. His work on adhesively bonded joints and bolted composite joints is renowned world-wide. His A4E joint analysis computer codes are used throughout the industry. He has also contributed much to creating scientifically sound analyses of the strength of composite laminates, being co-inventor of the SIFT failure criteria for fibre-polymer composites. In addition, he has become an expert in the design of fatigue-free aircraft fuselage structures, by designing better joints.

#### To Attend

Registrations Are Required, and can be made by visiting

<http://www.engineersaustralia.org.au/eminentspeaker/>

(Please note there is a \$10 charge for Non-Members to attend Engineers Australia Eminent Speaker sessions)

**Date:** Friday 10th December

**Time:** 12noon for 12.30pm Start

**Location:** Auditorium, Engineers Australia VIC Division, 21 Bedford Street, North Melbourne

Members of Engineers Australia can claim CPD hours for attendance at this event. Members should refer to Engineers Australia's CPD Policy for requirement details and conditions. The event is supported by the Royal Aeronautical Society.

**Our  
address  
has  
changed!**

If undeliverable return to:

**ROYAL AERONAUTICAL SOCIETY  
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