

The Melbourne Branch of the Royal Aeronautical Society

Newsletter

August 2010



From the Editor

August is shaping up to a busy month for the Branch. On Thursday the 5th, the annual aerospace careers event will be held (now known as the Aerospace Industry Night), with an improved format. A series of helpful workshops will be incorporated into the program, and will cover topics such as resume writing, and also offer an opportunity to talk to recent graduates.

Whilst this event is focused on higher-education students, we extend a warm welcome to members and friends who may be interested in attending the event, or know of someone who might.

On the 16th, RMIT University, in conjunction with the Branch, will be hosting a celebration of the achievements of John Duigan 100 years ago.

Also, keep an eye out for details for this year's Hargrave lecture & dinner. More details coming out soon!

Best Regards,
Luke Webb

Branch Diary

Monday 13 September—Hypersonics Research in Australia, with Dr Allan Paull (Research Leader, Applied Hypersonics, DSTO)

Monday 11 October—Gippsland Aeronautics

August Event #1—Aerospace Industry Night

Aerospace Industry Night

Date: Thursday, 5 August 2010

Time: 5:30 pm for a 6pm start

Where: Storey Hall, 336-348 Swanston Street, Melbourne

RSVP: Register at

[<http://makeitso.org.au/2010aerospaceindustrynt>]



The 2010 Aerospace Industry Night provides information to students interested in pursuing a career within aerospace, aviation, defence and related industries. This forum is intended to cover a range of areas including design, manufacturing, maintenance, upgrades, operations, defence, research and development, and general aviation support services. It allows opportunity for dialogue and interaction between industry members, as well as University and TAFE students.

The format of the evening will comprise of brief presentations by company representatives followed by an informal exposition-style discussion session, where attendees can have one-on-one discussions with industry representatives. In conjunction to the informal discussions, the students will also have the chance to attend smaller seminars which will be conducted in smaller theatres in the upper levels of the venue. These seminars will cover common issues of resume writing and interview skills, as well as a chance to talk to a panel of recent graduates working within the industry.

August Event #2—Duigan Celebrations

Centenary of Flight In Australia: Celebrating the Past, Building the Future

Date: Monday 16 August 2010

Time: 5pm for 5.30pm Start

Where: Storey Hall, 336-348 Swanston Street, Melbourne

RSVP: By Monday 2 August 2010 to timothy.peters@rmit.edu.au or Tel: +61 (0)3 9925 6167

You are invited to the Centenary of Flight commemoration to celebrate 100 years of powered flight in Australia. The celebration will particularly focus upon the achievements of Mr. John Duigan at his family's property at Mia Mia in 1910, where he designed, built and flew his own aircraft.

Guest speakers include:

Dr. Gwynne Duigan (Duigan Family Archivist and Matriarch)

Prof. Dr.-Ing. Joachim Szodrich (Member of the Executive Board DLR, German Aerospace Center, Cologne, Germany)

Mr. Terry Egan (Aviator and Manager, Duigan Aircraft Replica Project)

The event will include a presentation of Student "Centenary of Flight" awards, and a display of a flight simulator program of the Duigan Flyer, developed by RMIT University Aerospace Engineering students.

\$47,000,000,000

Value of new orders in USD for aircraft placed at the Farnborough Airshow in July (compared to the \$88.7bn record set in 2008)

Aerospace Students Association (AESA), RMIT University

“Explore the sky of aviation
...and get ready to take off”



The AEROSPACE INDUSTRY NIGHT



PARTICIPANTS: BOEING AEROSTRUCTURES AUSTRALIA; RAYTHEON AUSTRALIA; BAE SYSTEMS AUSTRALIA; ROYAL AERONAUTICAL SOCIETY;
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS; AERONAUTICAL ENGINEERS AUSTRALIA; COMPOSITES ACS;
TEACH FOR AUSTRALIA; MACRO RECRUITMENT; DEFENCE FORCE RECRUITING; DEFENCE SCIENCE AND TECHNOLOGY ORGANISATION;
JOHN HOLLAND AVIATION SERVICES; ENGINEERS AUSTRALIA; AND AVALON AIRPORT

visit www.aerospacestudents.org for more information

5 - AUG - 10

6:00 - 9:30 PM at RMIT Storey Hall
(Building 16, 360 Swanston Street, Melbourne)



Aeronautical News Brief

787 debut appearance at international airshow

UK: The Boeing 787 Dreamliner landed at Farnborough for its first appearance at an international air show. The plane is currently conducting daily flight tests in the US after its first flight in December 2009. First deliveries to its launch customer All Nippon Airways are expected for later this year, though Boeing has conceded this deadline could slip into early 2011.

X2 Technology Demonstrator Achieves 225 Knots, Sets New Top Speed for Helicopter

USA: Sikorsky Aircraft Corp's X2 Technology demonstrator unofficially broke the speed record for rotorcraft on July 26, achieving a maximum speed of 225 knots in a one-hour test flight. It is designed to demonstrate that a helicopter can cruise comfortably at 250 knots while retaining desirable attributes as excellent low-speed handling, efficient hovering, and a seamless and simple transition to high speed. The previous record for a 3,500 kg class of rotorcraft -- 216 knots -- was set by a Westland Lynx in the mid-1980s.

British Airways names Qantas in price-fixing lawsuit

UK: QANTAS is among 24 airlines that British Airways has claimed should share potential damages as a result of a price-fixing lawsuit. BA has issued legal proceedings against its alleged co-conspirators in a bid to spread the impact of any damages that might be awarded from legal action..

Google and ITA Software Sign Acquisition Agreement

USA: ITA Software, a flight information software company, and Google announced on July 1 that they have signed a definitive agreement for Google to acquire ITA for \$700 million in cash. Founded in 1996 by a team of MIT computer scientists, ITA's technically advanced solutions for organizing flight information were hailed as a catalyst for change in the online travel industry. The deal will allow Google to pursue the creation of new flight search tools that will enable users to find better flight information more easily on the Internet.

Address Change

The Melbourne Branch has moved ... its postal address.

Our St. Kilda Road post-office box has now been replaced with the following address:

**Royal Aeronautical Society
C/-Engineers Australia
Suite 201
21 Bedford St
North Melbourne VIC 3051**

Please address any correspondence to this new location.

Discover Engineering Opportunity

This is a great opportunity to learn how to inspire the next generation of engineers! The Discover Engineering: the Engineers in Schools Program, was established by Engineers Australia, Victorian Division to answer the question of "what does an engineer actually do?" As part of the program, students work with practicing engineers in their classroom and discover what a career in engineering can offer.

The Victorian Space Science Education Centre (VSSEC) and Engineers Australia Victorian Division have joined forces to develop a training session for professional engineers to ensure students and teachers get the maximum benefit from this program. VSSEC will train engineers in strategies for effective science teaching and embed the Discover Engineering program within its Mission to Mars, Mission to the Orbiting Space Laboratory and Robotic Mission to Mars programs.

The first training session will be held on **Tuesday 10th August** at VSSEC. Engineers from ALL disciplines are needed!

[http://www.engineersaustralia.org.au/divisions/victoria-division/schools/schools_home.cfm]

Checklist

Event for High-School Students

Want to know what a career in Engineering or Science can offer? Want to know what study options are available? Find out at the VSSEC Engineering and Science Careers Expo. This FREE event aims to showcase the diverse range of study and career paths available across a broad range of fields. This event brings together university, TAFE and industry representatives to help inspire our future engineers and scientists and expose them to the wide range of options available. Students will have the opportunity to explore interactive displays, and young engineers and scientists will discuss their work and talk about their experiences of studying and working in a scientific field.

The event is free, but bookings required. Visit [www.vssec.vic.edu.au] to register.

Launch of space.gov.au

The Federal Government has recently launched the *space.gov.au* website. This portal contains information on the Australian Government's space-related activities and the Australian space sector, as well as links to space-related research organisations, events and international partners.

The website has other features too, such as detailed information about the Australian Space Research Program, and ways to apply for grants under this scheme. The website also contains a useful News and Features segment containing up-to-date information about events, projects, conferences, competitions, and programs that are relevant to the Australian Space community.

For more information visit [www.space.gov.au]

Branch Committee

Chairman: Domenico Lombardo

Hon. Secretary:

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Hon. Treasurer: Anthony Patti

Events Manager: Crystal Forrester

Asst. Events Manager: TBA

Webmaster: Stratos Patsikatheodorou

Newsletter Editor: Luke Webb

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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.

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changed!**

Vale Dr David Warren AO: 1925 - 2010



Defence and the Australian scientific community is mourning the death of Dr David Warren, inventor of the Black Box flight data recorder, who passed away on 19 July at the age of 85.

Born in 1925 at a remote mission station in far north-east Australia, Dr Warren served as Principal Research Scientist at the Defence Science and Technology Organisation's Aeronautical Research Laboratories (ARL) in Melbourne, from 1952 - 1983.

Early in his career, Dr Warren was involved in accident investigations related to the mysterious crash of the world's first jet airliner, the Comet, in 1953.

He advocated the use of a cockpit voice recorder as a useful means of solving otherwise inexplicable aircraft accidents. He designed and constructed the world's first flight data recorder prototype at the ARL in 1956.

This device became known as the 'black box'.

Dr Warren's flight data recorder has made an invaluable contribution to safety in world aviation.

In November 2008, Qantas announced that they had named an Airbus A380 aircraft

after Dr Warren in honour of his contribution to aviation. Dr Warren was one of only two aviation pioneers who were there to see the unveiling of the names that would grace the new fleet. His name will join such aviation luminaries as Sir Charles Kingsford Smith and Nancy-Bird Walton in adorning one of twenty new planes.

Among many awards during his career, Dr Warren and his team also received the Lawrence Hargraves award in 2001 for their work on the Black Box flight recorder. He was appointed an Officer in the General Division of the Order of Australia in 2002 for service to the aviation industry.

Dr Warren simultaneously served as chairman of the Combustion Institute (Australian & New Zealand Section) for 25 years (1958 - 1983) and Scientific Energy Adviser to the Victorian Parliament (1981 - 1982).

David Warren is survived by his wife Ruth, four children and seven grandchildren.

[Defence Media Release 21 July 2010]



SURFACE
MAIL

POSTAGE
PAID
AUSTRALIA