



**ROYAL
AERONAUTICAL
SOCIETY**

AUSTRALIAN DIVISION
SYDNEY BRANCH INC

NEWSLETTER

MARCH 2014

Vol 2014-1 PO Box 573, Mascot, NSW 2020 ABN 75 134 058 731 Email: sydneybranch@raes.org.au <https://www.facebook.com/groups/RAeSSydney/> www.raes.org.au

Date: Saturday 15th March, 2014

Time: 14:00 to 16:00 hours

**'Behind the Scenes Tour:
Aviation Collection'**

**Venue: Powerhouse Discovery Centre
172 Showground Road, Castle Hill**

RSVP The tour has been arranged for RAeS members only and limited to a maximum of 40 members. Entry fees: \$16 for RAeS members, and \$10 for Powerhouse members and RAeS concessions. Fee includes entry to the general area of the Powerhouse Discovery Centre which is opened from 10:00 to 16:00 hours Saturday in conjunction with their Open Weekend Program initiative for this weekend. Should you wish to arrive early to take advantage of this please advise the reception area that you are part of the RAeS organised tour group and pay your entrance fee directly to them. Please ensure that you return to the reception area of the Centre by 14:00 hours so that we can commence the tour. Attendance registration (for yourself plus 1 partner) is essential. Please register by clicking on the link/copy and paste link to your browser: raestourmar14.eventbrite.com.au (Password: RAeS). **Print the Eventbrite ticket and bring it with you or have it stored on your mobile phone. RAeS members who do not register or do not present their ticket or do not have it stored on their mobile phone may not be able to participate in the tour.**

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 1 partner), membership number or state 'Friend' if you are a Friend of the Branch, and phone number.

Tour Details: The main conditions for the tour are:

- 1.) **All bags, including handbags,** must be cloaked in the public lockers before entering the behind-the-scenes areas.
- 2.) Personal photography is permitted, however professional photography, flash photography and tripods are not permitted.
- 3.) Visitors are required to wear covered shoes—no thongs are permitted. Visitors are also advised to wear comfortable shoes for walking.
- 4.) Behind-the-scenes tours are restricted to visitors aged 12+ years.
- 5.) The visit includes access to secure and enclosed areas. Limited seating is provided.
- 6.) All visitors are required to wear the vest supplied over their clothes.
- 7.) Latecomers will not be able to join the visit.

Appropriate fees will be collected by the Treasurer on the day, prior to the commencements of the tours. Please ensure that you have the correct cash on you.

It is most likely that our group will be split into two groups of 20 for ease of rotation through the collection.

Parking: Vehicle and pedestrian entry via 172 Showground Road, Castle Hill. Alternate entry is also available via TAFE driveway on Green Road. Limited on-site parking available. Please note that a longer route via Wrights Road/Windsor Road/Showground Road is also an option for entry to the site if you miss the TAFE driveway.

For further information please refer to: castlehill.powerhousemuseum.com/planning-your-visit/.

Refreshments: Lunch and snacks are available from the local Rotary and Scout Clubs who run fundraising barbeques.

Date: Wednesday, 26th March 2014

Time: 17:30 for 18:00 hours

Eminent Speaker: Alain Garcia

**Former Airbus CTO and member of the
Airbus Executive Committee**

Topic: 'FLYING IN 2050'

**Venue: Engineers Australia
Sydney Division, Level 3**

8 Thomas Street, Chatswood



ENGINEERS AUSTRALIA Hosted by: The Joint Board for Aerospace Engineering, Engineers Australia and the Royal Aeronautical Society, Australian Division

Refreshments will be available prior to the commencement of the meeting

Profile: Alain Garcia joined "Sud-Aviation" in 1966. He became Head of powerplant systems in 1972, working for applications for Concorde and for the Airbus programmes, where he developed new standards related to powerplant integration (e.g. first Civil Aircraft FADEC integration).



In 1987, he became Chief Engineer for Aerospatiale in charge of the A330/A340 programme. He was seconded to the Airbus Industrie Consortium in 1994 where he became Senior Vice President of Engineering in January 1997. At the creation of the Airbus SAS in 2001, he became Executive Vice President of Airbus SAS, Head of the unified company Engineering (16000 engineers, worldwide). He became member of the Executive Committee in 2006. Under his leadership of Engineering the A340-500, A340-600, A380 were successfully certified and the A400M and A350XWB were launched. He retired from Airbus in July 2007.

From September 2007 to May 2011 he stood as ACARE S.V.P. Chairman of the Integration Team and of the Strategy Committee. He was as well visiting professor on thermodynamics and propulsion technology in Toulouse Colleges and University and participated in a number of international seminars and symposia. He acted as member of the "Haut Conseil Scientifique de l'ONERA". Alain Garcia is presently member of the Supervisory Board of the

Dassault Aviation Company, France, and of the CTEngineering Company, Spain.

Synopsis: Air transport must face major challenges in order to meet needs in terms of passenger and freight transportation in Europe and Worldwide within a 2050 timeframe. The French Air and Space Academy's Foresight commission, made up of aeronautics high levels experts and chaired by the speaker, has identified the challenges to be met by the air transport sector and reviewed them on a number of themes like prospects for air traffic growth, quality of service expected, energy sources available for air transport, and contributions of aircraft manufacturing, operational structures and space.

In mid 2012 a very well attended international conference was organized in Toulouse (F) with the participation of recognized, independent experts from Europe and the USA, to discuss these issues, to identify what is at stake and the challenges that must be met, and to provide recommendations and solutions for the attention of political and industrial policymakers, as well as the scientific and education community, whose task it is to prepare for tomorrow's air transport system. Alain will present the results of this work that have been published in the format of an Air and Space Academy Dossier. After identifying market needs as closely as possible by means of an original model, the speaker will go on to analyze the quality of service expected, possible solutions and their consequences on the availability of energy at a reasonable price, the risks of congestion of infrastructures, air traffic management and greater use of space services and the effects on the environment. The corresponding made recommendations to the high levels decision makers will be detailed. This presentation which was made in the main European countries in 2013 will take into consideration the novelties which appeared since then.



Parking: is available at the Thomas St Car Park. Free after 6 pm (2 minute walk to EA Sydney Div). Alternatively, 3 hours free parking is available at Chatswood Westfield (5 mins walk to EA Sydney Div). Please

observe parking restrictions and allow time to drive, park and walk to the venue. (Refer map).

DINNER: After the presentation, Alain has indicated that he will join us for dinner as the guest of the committee. All members and visitors are invited to attend the dinner to be held at Town Chinese Restaurant, Level 4, Westfield Shopping Centre, Victoria Ave, Chatswood. (Approxly \$45 pp including soft drink and wine.)

RSVP: Attendance registration for the presentation is essential. Please register for yourself plus any accompanying persons by clicking on this link/copy and paste link to your browser:

raesmar14.eventbrite.com.au . If a Friend of the Branch please entry 'Friend' as the membership number. Print the Eventbrite ticket or have it stored on your mobile phone. RAeS members who do not register or do not present their ticket or do not have it stored on their mobile phone may be subject to an Engineers Australia entry fee of up to \$50.00. Any member who does not have access to the internet can send a letter to Mr Jeff Lock, 4 Hillcrest Pl, Nth 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 ph #. Please note that RAeS members should not register via the Engineers Australia website – otherwise a fee will be imposed by EA.

Chairman's Message: Dear members

Welcome to the first newsletter 2014. Apart from taking this opportunity to wish you all the best for the new year I wanted to update you quickly on a few things. Firstly, late last year

we held our AGM and I would like to take this opportunity to thank those members who took the opportunity to get involved and were elected to the committee. I would also particularly like to thank some long serving members who stepped down this year and acknowledge their contribution – John Burleigh, Sophaelia Hofseth-Ronsen (UNSW), Abhijeet Kumar (Sydney) and Constantine Hela (UNSW). We still have a couple of slots on the committee available and would always welcome anyone interested in getting involved. Last year you would have noticed us increasingly using Eventbrite as a tool to manage registration for our events. One of the side benefits of this is that it allows us to survey attendees very efficiently. I would like to thank you if you've taken the time to respond and I can assure you that the information we have gathered has allowed the committee to fine tune our events on a number of fronts. Over the summer we also had our committee strategy day. This gives us a chance to reflect on recent performance and try to develop initiatives for improvement. One of the key areas we have identified is our need to continue to improve our service and relevance to early and mid-career aerospace professionals. In this vein you will hear more about us this year in relation to continuing professional development for example.

I hope the New Year has started well for you and I look forward to catching up with you at one of our events.

Regards David Cox, Chairman Sydney Branch.

Membership Information: "To join the RAeS or to UPGRADE your current membership standing or to see membership GRADE INFORMATION go to www.raes.org.au or email austdivision@raes.org.au . Annual memberships commence at only \$126 or \$27 for Students. Being a member helps us sustain a vibrant activities programme and opens the way to access restricted 'member-only' events.

Nominate Today

The RAeS is now inviting nominations for 2014 Honours, Medals and Awards - Closing Date: 31 March 2014

Anyone can offer a nomination or nominations for individuals and/or teams working in any area of aerospace and anywhere in the world. All it takes is a few minutes to complete the simple [nomination form](#).

A list of previous winners can be viewed in the 2013 RAeS Honours, Medals and Awards [brochure](#), which can be downloaded from the Royal Aeronautical Society's website or here. For more information please visit the [Honours, Medals and Awards page](#) at www.aerosociety.com or contact Anna Banton at anna.banton@aerosociety.com or call on +44 (0)20 7670 4312.

2014 Diary: 10 March: AIAA is holding an Aerospace Public Lecture entitled 'Working at Australia's Air Crash Investigator' by Mr David Wilson, ATSB, commencing 18:00 hrs at G25, Electrical Engineering, Bldg G17, off Library Rd, UNSW. *

13 March: The AUSTRALIAN WOMEN PILOTS' ASSOCIATION invites you to the Mary O'Brien Annual "Dine with the Aviators". Guest speaker: MR DAVID LOWY AM President and Founder of the Temora Aviation Museum Australian Aerobatic Champion and Air show Pilot Businessman. 1830 for 1900 at The Bankstown Trotting club 178 Eldridge Road Bankstown. Tel: 02 9709 2111 Free parking. Cost \$65 – 3 Course dinner, Drinks club prices at the bar. RSVP: by 7 March to Lenka Hill 0409 071 059 Email: lenka.hill@bigpond.com *

4 May: Wings over Illawarra.

7 May: Update on Autonomous UAV Operations and panel discussion on the potential research areas, uses of such vehicles in Australia and opportunities for industry in New South Wales. Venue will be Sydney University.

25 June: Thales to present on the new Air Traffic Control System recently implemented in Singapore.

* (Members who receive their newsletter by Email will find more detailed information in attached PDFs.)