



**ROYAL
AERONAUTICAL
SOCIETY**

AUSTRALIAN DIVISION
SYDNEY BRANCH INC

Vol 2014-2 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

NEWSLETTER

MAY 2014

UAV Lecture and Panel Discussion Evening



Date: **Wednesday, 7th May 2014**

Time: **16:30 for 17:00 hours sharp**

Venue: **Mechanical Engineering Lecture Theatre,
Mechanical Engineering Building, J07, Darlington Campus
University of Sydney**

Lecture: 17:00 “Research into applications for Robotic Aircraft”

Salah Sukkarieh



Profile: Salah is Professor of Robotics and Intelligent Systems at the University of Sydney, and Director of Research and Innovation at the Australian Centre for Field Robotics (ACFR). He is an international expert in the research, development and commercialisation of field robotic systems. He has led a number of robotics and intelligent systems R&D projects in logistics, commercial aviation, aerospace, education, environment monitoring, agriculture and mining.

Synopsis: Hear about current R&D undertaken at the University of Sydney in developing robotic aircraft for a wide range of applications. Robotic aircraft are UAVs but with the focus on developing higher levels of intelligence in the platforms, granting them the capability of “thinking” as they undertake the mission. The talk will cover work in intelligent remote sensing for agriculture, adaptive flight planning in defence, and intelligent soaring for long endurance flight and its link to commercial aviation. Work from international research groups that are focussing on the use of robotic aircraft for first response units and the construction industry will also be covered.

Refreshments will be available prior to the commencement of the Panel Session

Panel: 18:15 “UAVs – trends and opportunities”

- What are the emerging technological trends in UAVs?
- What are the potential applications for UAVs?
- Where are the research opportunities?
- What are the business opportunities?



Facilitator: Doug Nancarrow, *Aviation Business*

Panel: Bob Germaine, Regional Development Australia

Salah Sukkarieh, University of Sydney

John Young, Principal at KTM Capital

KC Wong, University of Sydney

Light supper will be available at the completion of the Panel Session

Attendance at both sessions will attract 2 hours of CPD



Doug Nancarrow is the editor of *Aviation Business* magazine. He has been involved in journalism for more than three decades, including a period as European correspondent for *The Australian* newspaper, based in London. He is also executive chairman of

*Safeski*s Australia.

Bob Germaine, Executive Officer, Regional Development Australia, Sydney has a wealth of experience in international management and marketing gained over many years in multinationals and SME's, both in the private and public sector. His background includes experience in

developing industry, business and community networks, and the planning, building and development of investment projects within the Asia Pacific. He works with industry, business, government, education, and community stakeholders to advance sustainable, economic development and social equity within the Sydney Region.

John Young is a principal at KTM Capital, a boutique equity capital markets group that raises funds for small-cap and mid-cap companies. John has over 30 years' corporate experience including principal roles in private equity, public market capital raising, corporate strategy and acquisitions, corporate governance, and management



consulting. John holds a Bachelor of Engineering (Mech) from Sydney University and a Master in Business Administration from Harvard University.



KC Wong is an Associate Professor at the University of Sydney and is a pioneering UAS (Unmanned Aircraft Systems) researcher having worked on multidisciplinary and morphing airframe design, instrumentation,

control, system integration, applications, flight testing, and project management since 1988. He is also very active in enabling the next generation of UAS and aerospace engineers through his introduction of unique experiential learning and global engineering design opportunities. Since 2009, Dr Wong has been the President of the Australian Association for Unmanned Systems (AAUS), and has recently been elected to be an Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA).

RSVP: Registration for the presentation is essential. Please register by clicking on this link: <https://raesmay14.eventbrite.com.au> Your registration will be confirmed by email with an attached ticket. **You must print the ticket and present the ticket at the door to gain entry to the event.**

Please note: Non members should enter the code **NM** if requested to enter a RAeS membership number.

Parking: is available in the Sheppard Street multi-story car park, located on the corner of Cleveland St and Shepherd St. The rate is \$2 per hour (up to \$6 maximum), but note that only gold coins are accepted in some machines. Parking is also available in Sydney University On-Campus Parking for \$2 per hour (up to \$6 maximum). Additionally, free parking is available in surrounding streets. Please observe parking restrictions and allow time to drive to the University of Sydney, park, and walk to the venue.

Public Transport: The closest train station is Redfern station, which is a 10 minute walk away from the venue. Buses 422, 423, 426, 428, 370 and 352 all go past the University (on City Road). From Railway Square near central station any 42X bus (e.g. 422, 426...) and the M30 will take you to the University. These buses come quite frequently at that time of night (every 2-5 minutes). But allow time to travel by public transport, including waiting time, and time to walk to the venue.

Continuing Professional Development (CPD) Activities

Engineers Australia requires that Chartered Professional Engineers and those aspiring to that status, demonstrate 150 hours of CPD in each three years (an average of 50 hours per year). CPD includes attendance at our monthly technical lectures, conferences and site visits, as well as personal research and professional study. It is important to keep an up to date log of CPD activities, as this will be reviewed and audited from time to time once Chartered Professional Engineer status is achieved. An example log is available at (CPD log web link), or an on-line log can be kept at the Engineers Australia web page.

For further details visit: www.raes.org.au/cpeng-and-cpd-2/

2014 Diary: **4 May:** Wings over Illawarra. The Sydney Branch will again be represented at Wings over Illawarra. Look for our display and call in to say 'Hello'. For further details refer: <http://www.wingsoverillawarra.com.au/>

5 May: Hosted by AIAA 'Inventing the Joint Strike Fighter', by Eminent Speaker Dr Paul Bevilacqua, former Chief Engineer of Lockheed Martin's Skunk Works - being held at Sydney University commencing 18:30 hours. For further details refer: www.aiaasydneysection.org

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

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.

URGENT URGENT URGENT **Voting now open for the RAeS UK Council** **Elections 2014**

The Royal Aeronautical [Society Council Election 2014](#) opened for voting on 1 March 2014. All voting members will now have received either an e-mail or postal notice enabling you to vote. If you believe that you are a voting member but did not receive either an e-mail or postal notice, then please contact our election provider, mi-voice, using the details below (we would advise you in the first instance to check your email account's junk folder, in case your e-mail settings determine this e-mail as being spam).

Please note that voting will close at 0900 hours on Wednesday 21 May 2014.

Members who are entitled to vote in the Society annual elections will lose their right to vote if they have not paid their subscriptions by 31 March 2014.

We want to thank you in advance for taking the time to vote in the 2014 RAeS Council Elections.

See more at: <http://aerosociety.com/News/Society-News/1875/Have-you-voted-in-the-RAeS-Council-Elections-2014>

For queries, e-mail mi-voice at enquiries@mi-voice.com or telephone +44 (0)845 241 4148. Please contact [Anna Banton](#) for any specific enquiries about Society Council elections.

Australian Division Members: If you do not have an email address and you have not received a postal notice and you wish to vote by a ballot paper, please contact the Australian Division Administration Officer, Peter Brooks, PO Box 179, Cronulla, NSW, 2230, - phone 9523 4332 or fax 9523 7158 before **25th April** and he will arrange with London for a ballot paper to be mailed to you.

Members may note that Capt. John Faulkner FRAeS, now living in London, is standing for re-election to the RAeS Council. John was previously an Australian Division Councillor and served a two year term as President of the Australian Division. He was also a member of the Sydney Branch Committee and their Chairman during the early 2000's

Breaking News At the recent Australian Division Annual General Meeting, the Sydney Branch Secretary Mr John Vincent was unanimously elected as the President Elect.