

The Future of UAVs

Challenges and Applications in the Asia Pacific Region

KEY SPEAKERS:

- Ass. Prof. Rod Walker
QUT, ARCAA
- Dr Peter Corke
CSIRO ICT CENTRE
- Alex Zelinsky
CSIRO ICT CENTRE
- Wing Commander Andy Jeffreys
UK MOD
- Jed Sturman
Access 5 & UNITE
BOEING PHANTOM WORKS
- Michelle Allouche
ISRAELI AIRCRAFT INDUSTRIES
- Bernie Hole & Gary Carr
CIVIL AVIATION SAFETY AUTHORITY
- Steve Krause
BOEING PHANTOM WORKS
- Sue Wolfe
WELSH DEVELOPMENT OFFICE
- Dr Ryu Miura
NATIONAL INSTITUTE OF
INFORMATION AND
COMMUNICATIONS TECHNOLOGY
- Masaaki Nakadate
MANAGER/SENIOR RESEARCHER AT
THE JAPAN AEROSPACE
EXPLORATION AGENCY
- Paul Gartz
PRESIDENT IEEE AEROSPACE &
ELECTRONICS SYSTEMS SOCIETY
- Charles Spinelli
BOEING PHANTOM WORKS
- Alex Hill
AEROVIRONMENT USA
- Ken Zugel
DIRECTOR OF FLIGHT OPERATIONS,
AURORA FLIGHT SCIENCES USA
- Greg Holland
AEROSONDE NORTH AMERICA
- Peter Smith
AEROSONDE
- Warren Williams
UNMANNED TECHNOLOGIES
AUSTRALIA



Wednesday 30th November & Thursday 1st December
2005

The Australian Research Centre for Aerospace Automation (ARCAA) has been established in a joint venture between the Queensland University of Technology and the Commonwealth Scientific and Industrial Research Organisation as a centre of excellence to explore civil and security opportunities for UAVs in the Asia Pacific region.

“The Future of UAVs – Challenges and Applications in the Asia Pacific Region” will be a unique forum, held in conjunction with the official launch of ARCAA. Over two days delegates will explore future applications of Civil and Security UAV technology with a wide cross-section of stakeholders.

The forum will bring together an array of professionals, including:

- Key international experts on civil and security UAV technology and applications
- Key decision-makers from a wide-variety of industries that stand to benefit from the application of civil and security UAV technology
- UAV industry partners
- Government officials
- Researchers
- Airspace regulators

Proudly Supported by:



Wednesday 30th November 2005

- 0745 **Registration**
- 0830 **Overview of the Australian Research Centre for Aerospace Automation (ARCAA)** – Associate Professor Rod Walker (QUT) / Dr Peter Corke (CSIRO ICT Centre)
- 0915 **Technologies to Overcome the Tyranny of Scarcity** – Professor Arun Sharma, DVC Research, University of Technology.

- 0930 **Future of ICT in the Aerospace Industry** – Alex Zelinsky (CSIRO ICT Centre)
- 1000 **AUVSI – An Overview of Current Activities** – Darryl Davidson

- 1030 **Morning Tea**

AIRSPACE INTERGRATION & REGULATION

- 1100 **The United Kingdom Ministry of Defence UAV Strategy and Road Map** – Wing Commander Andy Jeffrey, UK MOD
- 1130 **Overview of Access 5 and UNITE UAV Airspace Integration Activities** – Jed Sturman, Boeing Phantom Works Access 5 & UNITE Representative

- 1200 **Lunch**

- 1300 **Official Launch of ARCAA**

Welcome – Ass. Prof. Rod Walker QUT, ARCAA

Overview of the aims and objectives of the Da Vinci Precinct at the Brisbane International Airport – Jim Carden, Brisbane Airport Corporation.

Queensland Governments Vision for Aerospace in Queensland – Deputy Premier Anna Bligh

- 1400 **European Airspace Integration and the IAI Experience** – Michelle Allouche, Israeli Aircraft Industries

- 1430 **Unmanned Aircraft Airworthiness Requirements** – Bernie Hole & Gary Carr, Civil Aviation Safety Authority

- 1500 **Afternoon Tea**

CIVIL APPLICATIONS AND CHALLENGES – CURRENT & FUTURE

- 1530 **Phantom Works Unmanned Systems – Current Civil Applications** – Steve Krause, Boeing Phantom Works & Sue Wolfe, Welsh Development Office.
- 1600 **Japan's Stratospheric Platform Project and Its Accomplishments** – Masaaki Nakadate, Manager / Senior Researcher at the Japan Aerospace Exploration Agency (JAXA)
- 1630 **Wireless Platform at High Altitude – Telecom Trials in Japan** – Dr. Ryu Miura, National Institute of Information and Communications Technology (NICT)
- 1700 **Achieving Commercial Objectives through integration of UAV Operations into Civil & Military Airspace** – Heidi Fourie, Head of UAV Flight Operations. BAE Svstems Australia

- 1730 **Free Time**

- 1830 **Pre Dinner Drinks**

- 1900 **Dinner**

Dinner Speakers include: -
“**Key Research Challenges for ARCAA**”, Rod Walker / Peter Corke.

“**Towards an Integrated Earth Observing System: UAVs as Earth Observation Platforms**”
Paul Gartz, President IEEE Aerospace & Electronics Systems Society.

Thursday 1st December 2005

CIVIL APPLICATIONS AND CHALLENGES – CURRENT & FUTURE

- 0830 **Testing & Developing UAV Systems – Lessons Learned** – Charles Spinelli, Boeing Phantom Works.

- 0900 **Civil Applications of UAVs and the Global Observer Program** – Alex Hill, Aerovironment USA.

- 0930 **Overview of Aurora Flight Sciences UAV Programs** – Ken Zugel, Director of Flight Operations, Aurora Flight Sciences USA

- 1000 **Aerosonde's Future and Current Civil UAV Activities** – Greg Holland, Aerosonde North America & Peter Smith, Aerosonde.

- 1030 **Australian UAV Initiative** – Warren Williams, Unmanned Technologies Australia.

- 1100 **Morning Tea**

- 1130 **Workshop Overview and Objectives**
– Workshop Facilitator

- 1140 **Workshop Session – Identifying Potential Civil & Security Applications for UAVs in the Asia Pacific Region** – All delegates

- 1230 **Lunch**

- 1330 **Break-Out Workshop Sessions**

The Way Forward – What are the airspace integration & technology challenges that need to be overcome to meet the applications identified?

- 1500 **Afternoon Tea**

- 1530 **Wrap Up Session and Reporting**
– Workshop Facilitator

- 1615 **Final Overview and “Where to From Here?”** – Rod Walker / Peter Corke (ARCAA)

- 1645 **Official Close of the Conference**

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Additional Information

Location and Dates

Forum to be held in Brisbane, Queensland on the 30th November & 1st December at the:

The Sofitel Brisbane
249 Turbot Street
Brisbane QLD 4000
Ph: 61 7 3835 3535
Fax: 61 7 3832 1964
www.sofitelbrisbane.com.au

Distance from Airport 16km
Travel Time: 25 Mins
Approx Taxi Fare: \$28 AUD
Distance to City Centre 0.1km

Delegates are advised to make arrangements to arrive in Brisbane on the 29th November if possible in order to registration at the Sofitel at one of two times listed overleaf.

The ARCAA launch that was to occur at the Da Vinci Precinct at the airport on the first morning will now be conducted at the Sofitel on the first day of the conference. It will be held immediately after lunch by the Queensland Deputy Premier, Anna Bligh. As such delegates should now make their own way to the Sofitel in time to register and attend the first session commencing at 8:30am on the 30th November.

Accommodation

The Sofitel Brisbane is the preferred supplier of accommodation for the forum and is offering a special room rate of \$175 AUD per night. All delegates are encouraged to book directly with the hotel and quote the special group booking code **BOE1105** to receive the discounted rate.

Detailed below is a list of hotels within walking distance of the Conference Venue that offer additional accommodation options.

Novotel Brisbane
200 Creek Street
Ph: 61 7 3309 3309
www.novotelbrisbane.com

Brisbane Marriott
515 Queen St
Reservations: 1800 899 899 (Toll Free)
www.marriott.com.au

Carlton Crest Hotel
Cnr Ann & Roma Streets
Ph: 61 7 3229 9111
Toll Free: 1800 777 123
www.carltonhotels.com.au/brisbane



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Delegate RSVPs

Attendance at the forum is by invitation only and there are a limited number of places. As such, invited delegates are requested to confirm their attendance by **Friday the 11th of November** with the Event Organiser by email or phone. Should Invited Delegate's not respond by this date their place may be made available to other invitees.

Conference Costs and Meals

The conference is a fully funded event. Forum attendance, including lunch, afternoon and morning teas and the conference dinner is free to invited delegates.

Registration

Delegate Registration will be conducted at the following times and locations. If you are unable to meet these registration times please contact the conference administrator.

- o Tuesday 29th November 1700 to 1730
Sofitel Brisbane Lobby
- o Wednesday 30th November 0745 to 0830
Sofitel Brisbane Lobby

Event Organizer

For technical or program enquiries or to RSVP for the forum, please contact:-

A/Prof Rod Walker
Australian Research Centre for Aerospace Automation (ARCAA)
Ph: 61 7 3864 1772
0417 791 311
Email: Ra.walker@qut.edu.au

For organisational or administrative enquiries, please contact:

Conference Administrator

Bianca Kocsis
Boeing Australia Limited
Ph: 61 7 3306 6368
Email: bianca.kocsis@boeing.com

