

Unmanned Vehicle Systems 2005

Expanding the Capabilities

Tuesday 12 July 2005

RUSI, Whitehall, London, UK



Unmanned Vehicle Systems (UVS) are now an integral part of military operations, not only in the form of Unmanned Aerial Vehicles, but increasingly as ground and maritime combat vehicles. The challenges associated with UVS now facing the UK Armed Forces are not only their use in the battlespace, but equally the successful integration and the subsequent exploitation of their capabilities.

This event is sponsored by

Unmanned Vehicle Systems 2005

A Military Sciences Conference

Concept

UVS are a growing part of military operations, from their present role as reconnaissance and explosive ordnance disposal tools to their emerging use in ground combat and sub-surface operations. UVS are increasingly able to take on tasks that are 'high risk', yet critical to modern day operations. Development of the necessary UVS capabilities demands a high level of responsiveness to technological change and to evolving requirements in the Armed Forces. Exploitation of innovation and the ability to integrate capability amongst already established combat systems and units, is crucial to the continuing development of UVS in the military.

This conference will explore the issues and insights emerging from the development and use of UVS in the military. Themes will include legal issues arising from their use, lessons learnt by the use of UAV on operations, exploitation of new technology, the effective integration of UVS into combat, future areas of UVS potential, procurement and development policy.



Purpose

RUSI's Unmanned Vehicle Systems conference aims to deliver a dynamic look at this steadily growing area of military capability and is essential to those concerned with their manufacture, use and future potential. This conference will look at all aspects of unmanned vehicle systems in the military, from their current use on operations in Iraq and Afghanistan to their projected use and importance in future operations.

The topic of 'unmanned vehicles' will cover not only UAVs in their reconnaissance and growing air combat roles, but also vehicles used on the ground, for search and EOD operations, as well as those used at sea.

From a baseline of current doctrinal development, the conference will project into the future and consider the relationship between operational needs and technological opportunities in defining future concepts for the use of UVS.

Constituency/Market

This conference is aimed at both the United Kingdom and the international defence communities as well as UK, European and US-based defence manufacturing companies engaged in and considering the international market, highlighting for them the needs of the consumer.



Event Programme

TUESDAY 12 JULY 2005

08:00 Registration at the RUSI entrance and Coffee
08:45 Conference welcome and administrative announcements

09:00 **Keynote Session:**
Use of UVS in Modern Military Operations

Chairman: Rear Admiral Richard Cobbold CB FRAeS, *Director, Royal United Services Institute*

09:10 **Keynote Address: Post-modern Warfighting with Unmanned Vehicle Systems: esoteric chimera or essential capability?**
Air Chief Marshal Sir Brian Burridge KCB CBE ADC RAF, *Commander in Chief Strike Command*

09:30 **Address: Integrating UVS into the Military,** Commodore Peter Eberle Royal Navy, *Directorate of Joint Capabilities, UK MoD*

09:50 **Address: Systems Engineering for Autonomous Systems**
Mr Simon Jewell, *Chairman of Systems Engineering for Autonomous Systems, Defence Technology Centre*

10:30 Morning Coffee and Tea

10:50 **Session Two: Panel: UAV - An Industry Perspective**

Chairman: Vice Admiral Sir Jeremy Blackham KCB, *Vice President, Royal United Services Institute*

- **Watchkeeper,** Barry Trimmer, *Engineering Research and Technology Director, UK, Thales Aerospace Division*
- **Predator and Predator B Series UAV: Expanding the Capabilities**
Stephen A May, *General Atomics Aeronautical Systems, Manager International Business Development*
- **Spiral Development and Agile Acquisition in the UAV Arena**
Steven L Krause, *Boeing*

12:00 Lunch

13:00 **Session Three: Panel: Recent Operational Use of UAV**

Chairman: Rear Admiral Richard Cobbold CB FRAeS, *Director, Royal United Services Institute*

- **Italian Predator UAV in Iraq,** Air Brigadier General Roberto Corsini, *Italian Air Staff Representative in Iraq*
- **UK use of UAV,** Group Captain Andy Fryer RAF, *OC 1115 Flight Iraq*
- **USMC use of UAV in Iraq,** Lt Col Doug Hardison USMC, *CO VMU-2 Iraq*

14:15 **Session Four: The Future of UAV**

Chairman: Air Vice-Marshal Professor Tony Mason CB CBE DSc FRAeS DL, *Leverhulme Emeritus Fellow, University of Birmingham*

14:20 **Address: UK strategy toward the future operation and integration of UAVs,** Air Vice Marshal Chris Moran OBE MVO MA BSc RAF, *Assistant Chief of the Air Staff, Senior Responsible Owner UAV, UK MoD*

14:40 **Address: ISTAR and UAV**
Air Commodore Stu Butler *DEC ISTAR, UK MoD*

15:00 **Address: Procurement of UAV**
Colonel Kev Harvey BA(Hons) CGIA, *Integrated Project Team Leader, TUAV, Defence Procurement Agency*

15:40 Afternoon Coffee and Tea

16:00 **Session Five:**
Evolving Areas for Tactical Unmanned Vehicles

Chairman: Michael Codner, *Director of Military Sciences, Royal United Services Institute*

16:10 **Address: The Development and Integration of Tactical Unmanned Ground Vehicles**
USMC Speaker

16:30 **Address: Gladiator - USMC use of TUGV in Iraq**
Colonel Terry W Griffin USMC, *Project Manager of Robotic Systems, US Marine Corps Systems Command*

16:50 **Address: Concept Development of Maritime UVS**
Captain Rod Little Royal Navy, *Senior Military Advisor, Defence Science and Technology Laboratories*

17:30 **Closing Address: Use of UVS - The Legal Issues**
Mr Martin Hemming CB, *Director General Legal Services, UK MoD*

Chairman: Rear Admiral Richard Cobbold CB FRAeS, *Director, Royal United Services Institute*

17:50 **Closing Remarks:**
Rear Admiral Richard Cobbold CB FRAeS, *Director, Royal United Services Institute*

17:55 End of Conference

18:00 Evening Reception in RUSI: Sponsored by **THALES**

20:00 Reception Finishes



For updates to the programme visit
www.rusi.org/events

About RUSI

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The Institute has four principal roles:

- Through its research programmes, to promote the study of selected national and international defence and security issues
- Through its programme of lectures, events and seminars, to provide a forum for discussion on all aspects of national and international defence and security
- Through its journal and publications, to assist in creating informed opinion and extending knowledge of national and international defence and security matters
- To encourage the maximum participation of individual, corporate and diplomatic members in these roles

UNMANNED VEHICLE SYSTEMS: A MILITARY SCIENCES CONFERENCE

RATES

The following fees apply per delegate. The fee includes attendance at all sessions, all refreshments and luncheons, and the Reception. Speakers and session chairmen are not required to pay.

Standard rate: £549.00 (+VAT @17.5% = £96.08) **£645.08**

Corporate members nominee rate: £499.00 (+VAT @17.5% = £87.33) **£586.33**

Applicable to stated individual nominees of RUSI corporate members

Military rate: £199.00 (+VAT @17.5% = £34.83) **£233.83**

Applicable to UK and overseas serving military officers and Ministry of Defence, other government department and agency employees.

4 WAYS TO REGISTER

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POST: This completed registration form to:
Royal United Services Institute for
Defence and Security Studies
Whitehall, London SW1A 2ET

ONLINE: www.rusi.org/events

EMAIL: sabrinad@rusi.org

If you have any queries please do not hesitate to contact Sabrina Downey, Events Manager on +44 (0)20 7747 2640

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VENUE & ACCOMMODATION

Venue:

RUSI, Whitehall, London SW1A 2ET

Accommodation:

Overnight accommodation is not included in the registration fee. However, there are a number of quality hotels in the area. Please call the hotels direct. Alternatively, why not try www.cityhotelaccommodation.com

CANCELLATIONS, SUBSTITUTIONS & CHANGES

Cancellations:

Cancellations must be submitted in writing. Cancellation of the registration 10 working days or more prior to the event date is subject to a £100 administrative fee. There will be no refund for cancellations received after this time. For a cancellation to be acknowledged, you must provide cancellation details in writing, and have received written confirmation in return.

Substitutions:

Substitutions may be made at any time. RUSI reserves the right to refuse admission.

Programme Changes/Information:

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