



ANNOUNCEMENT & CALL FOR PAPERS

What Role can Satellites Play in Supporting UAV Operations?

5 December 2007, Savoy Place, London, UK

<http://www.theiet.org/events/2007/11585.cfm>

Organised by the Satellite Systems and Application Technical and Professional Network
<http://www2.theiet.org/oncomms/pn/satellite/>

Deadline for your diary:

- Outline papers submission deadline: **20 August 2007**
- Notification of provisional acceptance: **3 September 2007**
- Submission of final papers: **14 October 2007**

Overview:

As the use of Unmanned Aerial Vehicle (UAV's) is growing significantly, in war zones, a common requirement for users is the need to get high data rate from these platforms in theatres with reach back to multiple parties, including back to command HQ. This will undoubtedly place a demand on satellite communications as a potential solution to achieve this goal. There is a growing interest in UK and Europe especially in the defence sector for the implementation of this technology. The importance of such architecture can also be seen in NATO's implementation of a programme called Alliance Ground Surveillance which will provide situational awareness.

In addition there is a growing recognition that UAV's have a role to play in assisting governments in meeting their national security requirements. For example, it is envisaged that UAV's could be used in protecting borders, as presently, they cannot be used in civil airspace, which prevents them from providing a civil security role. However, should this change; there will be an increasing demand for satellite communications to support UAV operations.

This exciting seminar will focus on the key issues related to the role Satellite Communications play in supporting UAV operations; it will also provide the right forum to debate security measures and areas of improvement. It will analyse operational challenges for urban combat communications and timeliness of information and the current regulatory policies on the use of UAV's in civil airspace.

Detailed Scope:

Contributions are encouraged from, but not limited to, the following themes and it is subdivided into areas and topics;

- Current UAV developments in the British aerospace and analysis of UAV roadmap to predict future needs
- Payload design / Constraints
- Satellite design / Responsive space
- Coalition Interoperability issues
- Operational challenges for urban combat communications and timeliness of information
- Control technology platforms for UAV autonomy
- Cooperative airspace
- UAV management and investment priorities
- Current regulatory policies on UAV's in civil airspace
- Future directions and challenges – technical and political

Further Details:

Online Submission

The Organising Committee invites offers of contributions in any of the proposed topic areas. Authors are invited to register their submissions and an outline paper of no longer than 2 pages (including diagrams) in .pdf format, before the **20 August 2007**.

Papers should be submitted to

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