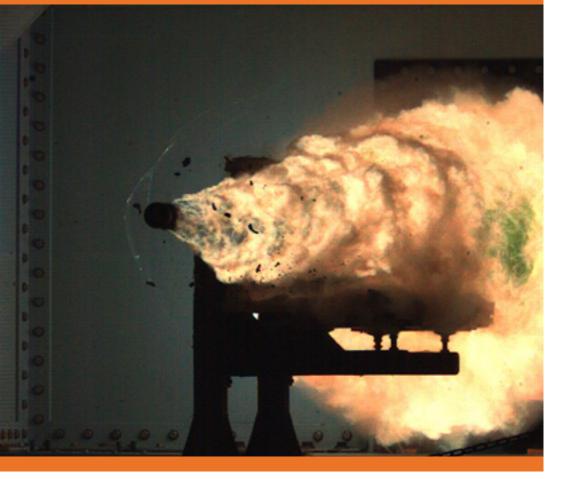
Weapon Systems and Technology Classified Conference



# DISRUPTIVE TECHNOLOGIES AND THE WEAPONS DOMAIN 2030 ONWARDS

FARNBOROUGH / 18 APRIL 2013



Sponsor:



## A ONE DAY CLASSIFIED CONFERENCE

# DISRUPTIVE TECHNOLOGIES AND THE WEAPONS DOMAIN 2030 ONWARDS

In every industry occasionally disruptive technologies will be introduced which cause a complete paradigm shift, for example, the impact of the introduction of digital mobile telephones on the communications industry. The aim of this classified one day (UK Eyes Only) conference is to consider potential disruptive technologies, at both system and sub-system level for the weapons industry, which may be reasonably fielded from 2030 onwards. The potential impact of these technologies on military business should also be considered. For example there may be circumstances where the introduction of a different type of capability would change the way in which a military (or political) effect is delivered. As such, a disruptive technology is one which could have influence across one or multiple Defence Lines of Development, not simply the equipment.



## VENUE

Whittle Theatre, QinetiQ, Cody Technology Park, Ively Road, Farnborough, Hampshire, GU14 0LX

PLEASE NOTE THIS IS A UK CLASSIFIED CONFERENCE FOR UK NATIONALS ONLY AND ALL DELEGATES WILL BE REQUIRED TO HOLD THE NECCESSARY SECURITY CLEARANCE. EACH PARTICIPANT IS RESPONSIBLE FOR OBTAINING THEIR OWN CLEARANCE FOR THE PURPOSE OF ATTENDING THIS CONFERENCE

#### Sponsored by:



#### Proceedings

There will not be proceedings made for this conference due to the classification. If you would like to purchase proceedings from other events excluding classified conferences, copies can be purchased from the Royal Aeronautical Society or by completing the registration form below. Information on past conferences can be found at www.aerosociety.com/proceedings.

#### Sponsorship & Exhibition

Please contact the Conference & Events Department for details on

exhibiting, sponsorship and insertion of information into delegate packs. **Cancellations** 

In the event of cancellation, terms and conditions will apply. Please go to www.aerosocietychannel.com for more details.

## 08.15 Registration / Tea and Coffee

09.00	<b>Welcome and Introduction</b> Nick Honey, Systems Engineer, QinetiQ Bernard Chan, Chairman, Weapon Systems and Technology Group, RAeS
09.05	<b>Keynote Address - Setting the Scene</b> Heather Goldstraw, Head of Technology Delivery, Dstl
ļ	SESSION 1: KINETIC EFFECTS Chairman: Bernard Chan, Systems Engineer, Lockheed Martin UK Ampthill
09.25	<b>1) Hypersonics</b> Trevor Birch, Engineer, Dstl
09.50	<b>2) Integrated Novel Kinetic Effects in Future Small Platforms</b> John Eaton, Director Design, Exelis
10.15	3) Remote Effectors with Proportionate Response - UAV Launched Miniature Guided Munitions Patrick Mallon, Chief Technologist - Missile Systems Advanced Weapon Systems, Thales UK
10.40	Networking Break and Coffee
•	SESSION 2: SUB-SYSTEM TECHNOLOGIES Chairman: David Grove-White, Head of Portfolio New Business, MBDA
11.10	4) Micro-Explosives and Micro- Munitions: Can We Test the Limits? Dr Adam Cumming, Principle Consultant, Dstl
11.35	<b>5) Materials and Components for Missiles Innovation and Technology Partnership</b> Mark Owen, Head of MCM ITP, MBDA
12.00	6) Disruptive Seeker Technologies for Improved Target Discrimination Dr Mark Bray, Technical Lead EO Sensors Domain MCM-ITP, Selex ES, A Finmeccanica Company
12.25	<b>7) Atomic Clocks in Weapons</b> Dr Graham Wallis, Chief Technologist,

MRDA

### 12.50 Networking Lunch SESSION 3: DIRECTED ENERGY Chairman: Matt Cork, Novel Weapons Programme Leader, Dstl 13.50 8) Technologies and Applications of Laser DEW Grant Perkins, Senior Project Manager, **OinetiO** 1415 9) Laser Directed Energy Weapons (LDEW) A Synergistic or Disruptive Technology to Conventional Weapons? Alan Miller, Chief Technologist, Thales UK 14 40 10) RF Directed Energy Weapons: Supporting MOD Decision Making Richard Rowland, Business Manager -Special Projects, MBDA UK 15.05 11) GPS Jamming - Quantifying the Threat Ian Cotts, Account Manager, Chronos Technology Ltd 15 30 Networking Break and Tea SESSION 4: AIRSPACE DISRUPTION Chairman: Nick Honey, Weapon Systems & Technology Committee, Royal Aeronautical Society 16.00 12) Disruptive Technology from an Unmanned Air Systems Perspective Nicholas Colosimo, Manaaer, Advanced Systems and Architectures, BAE Systems & Stephen Sheard, Head of Advanced Projects, BAE Systems

- 16.25 **13) Record breaking Zephyr Offers 24/7 Cost Effective Military Surveillance and Communications** *Christopher Kelleher, Technical Director and Flight Operations Manager, QinetiQ HALE UAV*
- 16.50 Closing Remarks
- 17.00 Close of conference

Programme may be subject to change, see www. aerosociety.com/Events for the lastest details



# **REGISTRATION FORM:**

Registration and secure payment can be made on-line at www.aerosociety.com/events. Alternatively, complete one registration form per person (photocopies may be used) and return with payment to: Conference & Events Department, Royal Aeronautical Society, No.4 Hamilton Place, London, W1J 7BQ, UK

TITLE:	FIRST NAME:		SURNAME:	
POSITION:				
ORGANISATION:				
ADDRESS:				
TEL NO:		FAX NO:		
EMAIL:		RAeS MEMBERSHIP NO:		

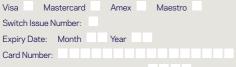
REGISTRATION FEES: (include refreshments, lunch and access to the classified presentations on the day)

	Fee £	VAT 20% £	Total £
Non-Member	325.00	65.00	390.00
RAeS Corporate Partner* (inc. Armed Forces)	275.00	55.00	330.00
RAeS Member	220.00	44.00	264.00

\* RAeS Corporate Partners are entitled to the special offer of five places for  $\pm$  1,100 + VAT

### **CREDIT CARDS:**

The RAeS can accept payment on the following payment cards



Please include your CVC security code:

These are the last 3 digits on the signature panel on the back of the card or 4 digits printed on the front of the Amex card

#### METHODS OF PAYMENT:

All payments should be made in Sterling (UK£).

**Online:** Registration and secure payment can be made online at www.aerosociety.com/events

**Cheque:** Should be made payable to the RAeS and enclosed with this registration form. Please add £15 if your cheque is not drawn on a UK bank to cover bank charges/currency exchange rates.

**Bank Transfer:** Payments can be made by bank transfer into Account No. 01564641, Sort Code 40 05 22, HSBC Bank plc, Mayfair Branch, 18a Curzon Street, London W1J 7LA, UK. Please indicate on the registration form if you have paid your fees direct.

## SIGNATURE:

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