

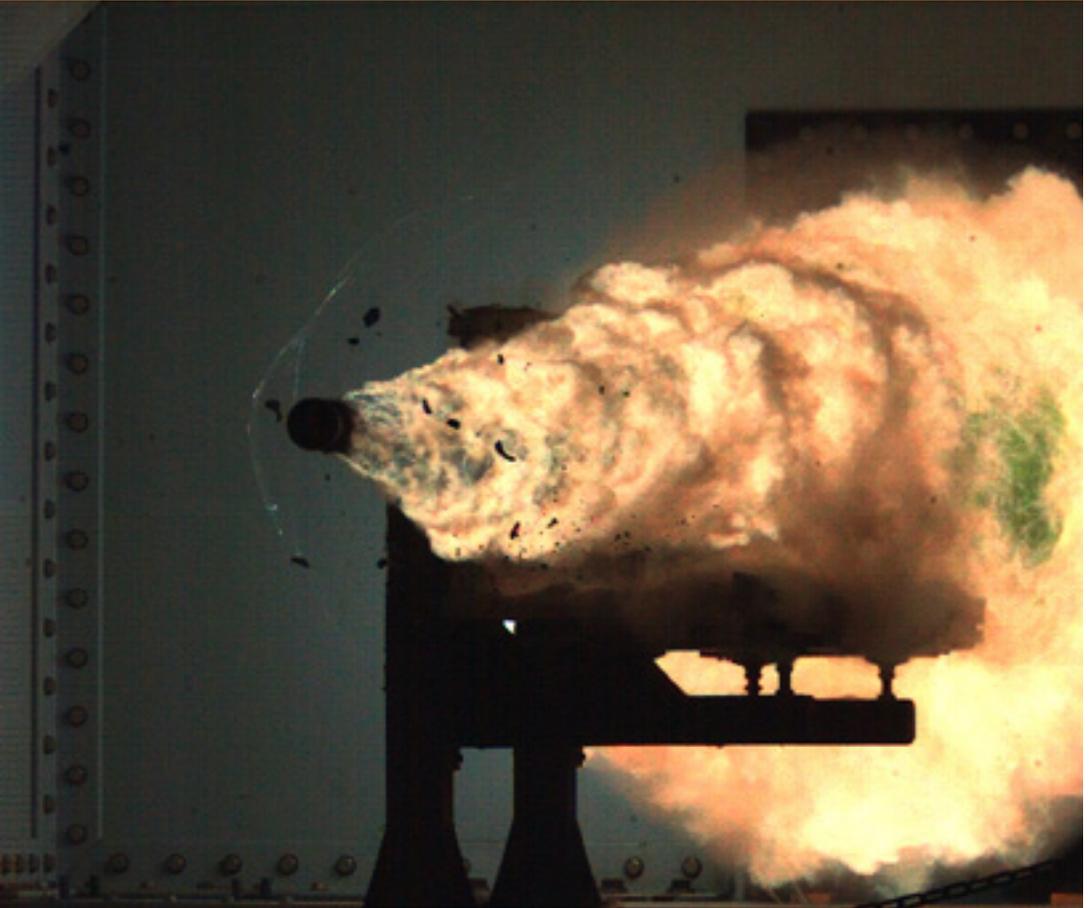
Weapon Systems and Technology Classified Conference



ROYAL
AERONAUTICAL
SOCIETY

DISRUPTIVE TECHNOLOGIES AND THE WEAPONS DOMAIN 2030 ONWARDS

FARNBOROUGH / 18 APRIL 2013



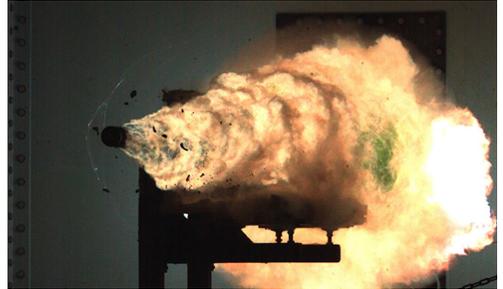
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A ONE DAY CLASSIFIED CONFERENCE

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 NECESSARY SECURITY CLEARANCE. EACH PARTICIPANT IS RESPONSIBLE FOR OBTAINING THEIR OWN CLEARANCE FOR THE PURPOSE OF ATTENDING THIS CONFERENCE

Sponsored by:

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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.

FOR MORE INFORMATION AND TO REGISTER www.aerosociety.com/events

PROGRAMME – THURSDAY 18 APRIL 2013

08.15 **Registration / Tea and Coffee**

09.00 **Welcome and Introduction**

Nick Honey, Systems Engineer, QinetiQ
Bernard Chan, Chairman, Weapon
Systems and Technology Group, RAEs

09.05 **Keynote Address - Setting the Scene**

Heather Goldstraw, Head of
Technology Delivery, Dstl

SESSION 1: KINETIC EFFECTS

▶ Chairman: Bernard Chan, Systems
Engineer, Lockheed Martin UK Ampthill

09.25 **1) Hypersonics**

Trevor Birch, Engineer, Dstl

09.50 **2) Integrated Novel Kinetic Effects in
Future Small Platforms**

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 **5) Materials and Components for
Missiles Innovation and Technology
Partnership**

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 **7) Atomic Clocks in Weapons**

Dr Graham Wallis, Chief Technologist,
MBDA

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,
QinetiQ

14.15 **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, Manager,
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 latest details

