DSEi 2011 - DEFENCE ATTACHÉ & VIP BRIEFING DOCUMENT
Welcome

This guide contains information on key features, exhibits, events and product demonstrations taking place.

With 1,300 exhibitors at the show, it does not claim to be an exhaustive list of everything at the event. If you need further information on DSEi please contact Steve Baker, Christina Esson or Jayne Thompson whose details are listed at the back.

Both SMEs and primes are well represented at the show. The SMEs are clustered together in zones based on capability. The show also contains a number of new feature areas and more country pavilions than ever before, with around 30 leading manufacturing nations represented:

Austria      France      Nordic      Sweden
Australia    Germany     Norway      Switzerland
Bulgaria     Holland     Pakistan    Turkey
Brazil       Hungary     Poland      Ukraine
Canada       India       Portugal    United Kingdom
Czech Republic Israel     Russia      USA
Denmark      Italy       Slovenia    South Africa
Finland      Jordan

Institutions such as the NATO Maintenance and Supply Agency (NAMSA), the US Department of Homeland Security and the UK Ministry of Defence (MOD) will also have a strong presence at the event. The importance of DSEi to nations around the world is evidenced by the number of countries that have been invited by the British Government to attend this year’s event; 125 individual invitations have been extended to 61 countries so far. The Official Overseas Delegation programme is organised in conjunction with the British Government’s UK Trade & Investment Defence & Security Organisation. There will also be the highest level of representation from UK Government at DSEi 2011 (details on Page 17). In addition to the UK Government’s Official Overseas Delegations, we are expecting over 500 senior UK and Overseas military and government representatives to attend DSEi this year as VIP guests of the Organisers.

We have gone out to all of our DSEi exhibitors asking them to request stand visits or meetings with our overseas and UK military and Government VIPs. We will pass any specific requests to you for consideration. We will also provide you with login and password details to allow you to access the DSEi Visitor Network (VNET) where you will have access to the DSEi floorplan, full list of exhibitors and their products and services. You will be able to filter the exhibitor list to show just those of interest to you and you can then bring up a diary and invite Industry to a meeting. Your diary meeting requests will be passed to the Exhibitor for acceptance through VNET in the usual electronic diary-management way. Exhibitors are unable to invite you to a meeting through VNET, but may have already approached you direct.

It would be greatly appreciated if you could find the time to meet any special requests for you to visit exhibitor stands and international pavilions during your visit if your schedule permits; programming of meetings ahead of DSEi will ensure that the most appropriate person is available to meet with you.

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CAPABILITY - LAND

Feature: Vehicle Display Area
Location: South Hall, Entrance S3

An area featuring 20 vehicles on display from a variety of exhibitors.

(Image: Force Protection’s Foxhound)

Highlights include:

- A Husky protected logistics vehicle fitted with Chemring’s Ground Penetrating Radar (GPR) and its Resolve communications EW system, both of which play a significant role in reducing the IED threat.

- Pearson Engineering present mine clearance ploughs showcasing their route clearance capabilities.

- Faun Trackway’s medium-weight portable roadway system. Named MGMS, the roadway is ideal for tackling adverse terrain conditions, including snow, marsh, mud and sand in a variety of climates.

- Iveco vehicle fitted with a WEW tank, showing the versatility of the solution and how the module can be changed to meet the operational need.

- Lockheed Martin’s Warrior will be on show. Demonstrating the way ahead for the Warrior Armoured Fighting Vehicle, this upgraded vehicle delivers enhanced fighting capability, increased mobility, soldier survivability and firepower, along with an open Electronic Architecture.

Also on display will be:

- MBDA: the Future Local Area Defence System (FLAADS);
- BAE Systems RG35 mine protected 4 x 4 vehicle;
- Iveco’s Light Multirole Vehicle.

Other land systems displays:

Land systems are also present across the show. In the Robotics & Unmanned Systems Showcase there will be a twice daily demonstration of how a variety of UVs, both air and ground, can play their part in asymmetric warfare. Among the companies involved will be Allan Vanguard, BCB, iRobot, Marshall Land Systems, Northrop Grumman Remotec, QinetiQ, Recon Robotics and Selex Galileo.

Feature: The UK Capability Showcase
Location: North Hall, Entrance N10
Visiting Warships include (subject to operational commitments):

- **HMS DAUNTLESS** Type 45, from the British Royal Navy. Dock Edge Door 1/2. (RN Type 45 destroyer). She will be berthed in the King George Dock, which will be an 8-10 minute boat ride from ExCeL. She will be available for delegations from 0915 daily. You should plan on one hour and ten minutes for a fullVVIP visit (from leaving the ExCeL jetty, to return to jetty), conducted by the CO or the XO. A special VVIP small private fast boat will be available for the delegations which will run from a ferry pontoon adjacent to Dock Edge Door 7. It may be possible to arrange shorter visits just to cover the main air defence system on board. The system is flexible, but the CO has asked for no more than 2 separate delegation/VVIP visits each morning/afternoon. It is a special coup to have the ship at the exhibition, and those planning delegations will be able to encourage their parties to visit the ship. In addition to the VVIP boat, there will be an hourly ferry boat, which will take around 12 minutes - this departs the ferry pontoon at 40 minutes past every hour. As she is equipped with the world’s newest and most effective air defence system, which even the USA have acknowledged, she should be a great attraction to delegations, especially naval and air force.

These ships are as versatile as they are powerful. Providing flexible global reach, they deliver broad utility, common to maritime forces, and give the UK military diplomatic and political options, with their ability to exert effect on land from the sea, ranging from deterrence and conflict prevention right up to high intensity war fighting and all points between. The HMS DAUNTLESS’s war-fighting capability includes the ability to engage hostile forces using the Sea Viper missile system, her gun or other onboard weapon systems. Can also deploy up to 60 Royal Marines Commandos and their equipment and operate a range of helicopters from her flight deck.

- **HMS TYNE**, RN River Class Offshore Patrol Vessel. Dock Edge Door 1/2. On board will be a number of maritime security exhibits in addition to a general look around the ship.

- **FGS BRAUNSCHWEIG** - (K130 Class German corvette.) Dock Edge Door 4/5. A brand new corvette of approx 1800 tons full load, recently commissioned, and built by Blohm and Voss. Fitted with RAM air defence missiles, SAAB RBS 15 SSM, Otobreda 76mm gun, MTU diesel engines giving a speed of around 27 knots, and with a crew of 50. She is a completely new design of vessel for general maritime security and protection tasks.

- **HMNS SNELLIUS** The Dutch survey ship, (Netherlands hydrographic survey vessel) Dock Edge Door 6/7. Commissioned in 2003, she is designed for military and civil hydrographic survey, with a displacement of 1800 tons and crew of up to 20. Fitted with a range of high definition sonars and with diesel electric propulsion.

- **HNoMS STORM (tbc)** (Norwegian guided missile patrol boat/corvette) Dock Edge Door 3/4. Very recently commissioned, Storm is the second of the Skjold Class revolutionary stealth vessels.
designed for littoral patrol and security. She powered by Rolls Royce turbines feeding into water jets, with a speed of over 60 knots. An exciting new development in warship design.
**Feature: Waterborne demonstrations**
Location: Grandstand on the jetty, Victoria Dock
Timings: Twice Daily, 10:45 and 14:45

The demonstration will consist of a number of high performance craft undertaking short capability demonstrations and then followed by a set piece operation involving equipment used for boarding and maritime security operations. The grandstand for viewing the Water Demonstrations, with a VIP enclosure, will be situated about 50 metres to the East of Dock Edge door 7.

These will include performance demonstrations from a number of small special forces craft, and a coordinated operation to cover equipment used in maritime security and boarding operations.

This demonstration, called Operation Vision, will feature not only boats, such as the revolutionary advanced rescue craft from Nautilus, but also small unmanned surveillance helicopters with video links to a large screen. Other equipment on display will include command and control systems for seaborne operations and maritime rescue.

Companies taking part include:

**Northrop Grumman**
**Marlborough Communications**
**Advanced UAV Technology**
**SAAB**
**Ultra Electronics**
**BCB**

There are also planned live demonstrations of diver detection sonars, and an underwater hull surveillance crawler from **Seabotix**, operating from the warships alongside.

Other highlights from unmanned naval exhibits:

**Thrustmaster**, with its sonar training system.

**Automatic Sea Vision**, which is showing its auto watch-keeping solution.

**Go Science’s RHyVAU**, a low energy, unmanned underwater sensor platform.

**Kelvin Hughes** is showing the application of its SharpEye™ radar technology to surveillance and security requirements both at sea and onshore.
Feature: Robotics & Unmanned Systems Showcase
Location: North Hall, Entrance, N3

A new feature, supported by the Association for Unmanned Vehicle Systems International (AUVSI), UAVS and West Wales UAVC, the Robotics & Unmanned Systems Showcase is a dedicated arena that will be used for demonstrations of Unmanned Ground Vehicles (UGVs) and Unmanned Aerial Vehicles (UAVs) during the show.

(Image: Dominator from Diamond Airborne Sensing)

Highlights include:

- **BAE Systems'** Mantis and **Agusta Westlands'** Wildcat are situated outside of the East Entrance, which is the delegation entrance. Outside of the West Entrance is a full scale mock up of **Lockheed Martin's** Joint Strike Fighter.

- **Insitu** which will be showing the ScanEagle; this can stay on station for more than 24 hours and its systems include over 45,000 hours of combat experience. A ScanEagle was used to assist the US Navy when Captain Phillips of U.S. cargo ship Maersk Alabama was kidnapped and held hostage for ransom by pirates off the coast of Somalia last year.

- The Dominator from **Diamond Airborne Sensing**, based on the fully certified Diamond DA42 commercial aircraft, which has logged more than 360,000 flight hours, will also feature in the area. The Dominator is powered by two AE300 turbo diesel engines, and is fully equipped for flight at all weather conditions. The Dominator UAV has flown over 80,000 hours.

Other suppliers participating include:

**DST Control** with its light-weight, high performance gyro-stabilised electro-optical systems with both EO and IR capabilities.

**Robosynthesis**, a UK specialist developer of proprietary extreme-modular robotics systems.

**Velodyne** with its LIDAR sensor.

**Sprung Instant Structures**, who produce deployable UAV hangars.

**Sky-Watch's Huginn X1** which can be used for visual reconnaissance in disaster areas, fence patrol and indoor inspection.

Close by **Magna Parva** will be showing a number of unmanned systems innovations including CEUS, its Centre of Excellence for Unmanned Air, Land, Marine and Space Systems, which delivers holistic cost-effective solutions to complex systems engineering, operational and support problems and includes a Schiebel Camcopter UAV.
Location: Throughout Show

The international security industry will be well represented by large prime contractors, research organisations, manufacturers and service providers, such as BAE Systems, Finmeccanica, Thales, Northrop Grumman, Lockheed Martin, QinetiQ, Explora Security, Avon Protection, Remploy, G4S.

Other highlights:

- **Altera** and **Lanode; Chronos Technology** with its global positioning and navigation product.

- **API Europe**, whose **TEMPEST** products have been safeguarding classified and sensitive information for the United States intelligence community and its allies for over 30 years.

- **Thruvision Systems**, featuring screening and scanning technology products.

The security industry service area will also be represented, with exhibitors including 3SDL, a leading provider of acquisition services to defence and security clients globally; **Wolfestone**, which specialises in translation for the defence and security sectors; and **Capita**, which will be showcasing recruitment and outsourcing within secure environments.

**Seminar content (See Theatre Two Seminar Programme, Page 15):** Panel discussions and sessions on relevant security issues affecting the industry by industry experts. Topics to include:

- Cyber / Information / Data Security: Protecting Critical Information and Networks
- Transport Security: Aviation / Maritime / Road / Rail
- National / International / Homeland Security: Counter Terrorism / IEDD / EOD / Crowd Control
- CBRNe: Current and Perceived Future Threats
- Border and Coastal Security: Surveillance / IR Technology / Piracy / Maritime Tracking Technology

**Security Showcase and Demonstration area:** The security demonstration and area will be located on the exhibition floor close to security-focussed companies. The idea of the Security Zone and adjoining Demonstration Area (Stand N7-390) is to have a dedicated area to host seminar content for our security delegations and VIPs, as well as giving our participating security companies an area to showcase their products and services. Daily themes, which may alter slightly, are as follows:

Day 1 Homeland Security
Day 2 Cyber Security
Day 3 Border / Coastal Security
Day 4 CBRNe
OTHER SHOW FEATURES

Robotics & Unmanned Systems Showcase
Location: North Hall Entrance N3
Timing: Scenario takes place at 10:30 and 15:30 Tuesday to Thursday

A demonstration of UVs in the context of an Afghan foot patrol which lasts just under an hour and features the following major themes – in order:

- Demonstrate SUGV Carry
- Mobile Checkpoint set up
- Robot Demonstration
- SUGV operating live
- Car clearance
- Sniper
- Robot Medical Extraction
- UAV Flight
- Building Assault
- UAV Over watch
- Questions & Company Info

Companies participating in the demonstration:

- Northrop Grumman Remotec
- Selex
- Allen-Vanguard
- BCB
- Middlesex University
- Marshall Land Systems
- Recon Robotics
- Datron World Communications, Inc.
- QinetiQ

International Electronics Pavilion
Location: North Hall, Entrance N9/N10

The International Electronics Pavilion is new this year. It covers a total of 200m² of the exhibition floor.

Highlights:

- **XJTAG** Development System. The system includes a range of software and hardware products, which can help engineers to debug, test and program electronic circuits quickly and easily.

- **XJDeveloper**, an advanced graphical interface that can make it quick and easy to set up and run tests on a circuit board.

- **ALR Services** will use DSEi as an opportunity to promote its recent AS9120 aerospace approval – the first Printed Circuit Board (PCB) supplier to do so – which certifies the company to supply to the aviation, defence and security markets.

- **BUS**, is showing the design and manufacture of custom enclosures for the military Commercial off the Shelf (COTS) environment, bespoke test and demonstration equipment and sub-rack, desktop systems, cabinets and wall-mounted enclosures.
**Naval Pavilion**
Location: South Hall, Entrance S9

Hosted by The Navy League of the United States, the Naval Pavilion is providing an overview of technology and equipment utilised by the American naval forces.

**Electronic Warfare Pavilion**
Location: North Hall, Entrance N9

The Electronic Warfare Pavilion is hosted by the Association of Old Crows (AOC) and provides insight into the latest technological developments that enable electronic warfare and information systems to cover analogue and digital domains including the entire acoustic, magnetic, seismic, and electromagnetic spectrum.

**Innovation Challenge**
Location: Theatre One, North Hall, Entrance N4
Timing: Thursday, 15th September, 15:00 - 16:30

Open to companies, organisations and individuals globally, the Challenge consist of presentations of new ideas that will make a significant contribution to defence or security capability but are not yet on the market.

Screening of the entries is being done by the UK MOD’s Centre for Defence Enterprise (CDE). Six entries will be presented to a panel of judges which will include Dr Helen Almey, Head of CDE; Louise Owen, Futures and Innovation domain lead, Defence Science and Technology Laboratory (DSTL); and Captain Gordon Graham, DSTL's maritime and CBRN senior military advisor.

Each contestant will have six minutes to make their pitch with a further five minutes for questions. The judges will then consider their verdict and nominate the best new idea. The winner will receive a free stand at DSEi 2013 together with £500 towards their expenses.

**Other areas include:**
- Land Zone
- Naval Zone
- Air Zone
- Security Zone
- Joint Capabilities Area
- Medical Zone
- Innovation Zone
EXHIBITOR NEWS

Battlefield Sim
The company will be showcasing its patent-pending CQB training simulation systems using inflatables, with
the latest range of inflatable walls, doors and windows. Battlefield Sim’s most recent innovation is its range
of patent-patenting inflatables. These include close quarters battle training, where ‘simunition’ safe props
make training programmes instantly changeable and totally transportable.

BCB International
For troops serving in hot and dry climates having quick access to a supply of cool water is essential. BCB
International’s “Chilly” now makes warm unpalatable water a thing of the past for troops because it can
reduce the temperature of their drinking water by up to 25 Degrees Celsius (45 degrees Fahrenheit). This
ingenious device works by evaporation alone, no batteries are required. Water passes through a series of
cooling fins that use microscopic holes to allow water to seep onto the wicking cloth.

Capita
A first time exhibitor, Capita will be showcasing its work and the associated benefits that its managed
service resourcing model is delivering for clients, specifically those operating within the defence and
security industry. Capita consultants will be on hand to discuss how the RPO/Managed Service approach
enables organisations to exercise a greater degree of control over the quality and cost associated with
hiring and recruiting skilled resource.

Clip-Lok
#Clip-Lok SimPak® now offers advanced GPS tracking of valuable goods via small tracking devices that
can be traced by satellite and cell phone. The consignment can be traced by SMS, whereby coordinates
are sent to a cell phone for entry into Google Maps, or through a free web based live tracking facility.

Data Device Corporation (DDC)
DDC, which has over 20 years of solid-state power management experience on military ground vehicles,
has announced the release of its third generation RP-26200 Solid-State Power Controller (SSPC). The RP-
26200 offers significant enhancements including higher power output, low power dissipation and extended
operating temperature.

Dräger
With the Dräger Oxylog 3000 plus intensive care quality ventilation can reach every patient, whether in
intra hospital transport, emergency situations or during air rescue operations. The most important options
are volume controlled ventilation with AutoFlow and integrated capnography in the main stream procedure.
Non-invasive ventilation is possible by default.

Fischer Panda
Working with prime contractors Dytecna and BAE Systems, Fischer Panda has produced an exceptionally
quiet stand-a-lone auxiliary power unit (APU) that can operate on or off the platform vehicle. The system
has its own integral cooling system that enables the unit to meet the MIL specified temperature range
whilst still meeting the EMC 59/411 specifications for the platform.

Genesis 3 Engineering
The Retractable Camera Mount (RCM) has revolutionized the way EO/IR sensors are mounted to mission
aircraft. Mounting a sensor with a Genesis 3 RCM reduces drag and increases the aircraft’s performance.
It also provides camera protection from FOD during ground operations as well as protection from bird and
lightning strikes in the air. The system is designed to benefit rotary or fixed wing aircraft requiring a nose,
pod or fuselage mounting location, reaching speeds of 100 knots or 400+ knots.

iOmniscient
IQ-Airport is a revolutionary and comprehensive set of intelligent video analytics that can improve the
efficiency, safety and security of all aspects of airport operations. From queue management to
maintenance, from detecting intruders to finding unattended baggage, from recognizing suspicious
behaviour to detecting parking violations, the IQ-Airport system can provide tangible and measurable
benefits.

**KEC**
The company is introducing an electromagnetic capability (EMC) interconnect computer test simulation
system that will save time and cost in designing and manufacturing EMC wiring harnesses and assemblies.

**Lanode**
Lanode will be featuring new PacketBand-ISDN Networking Product offerings, developed by Patapsco in
the UK. The PacketBand-ISDN range provides an important and unique method for transporting ISDN
traffic across packet networks. The range delivers clear/transparent clock-locked switched ISDN “B”
channels across different packet networks so any type of traffic can be transported, including; video
conferencing, encrypt-ors, codecs, faxes, modems and voice.

**Link Microtek**
The main focus of Link Microtek’s stand will be the company’s Azdec wire-free mobile communications
system, which uses infra-red technology to provide totally secure short-range voice communications for a
variety of military applications. A fully operational Azdec system will be featured on the company’s stand
and there will also be an opportunity to see the system in situ on the bridge of a Type 45 Destroyer that the
British Royal Navy has allocated to DSEi. Other than the link from headset to battery pack, the system has
no wires and therefore gives personnel complete freedom of movement.

**Magnum**
Magnum, the world leader in EN certified footwear, will be launching its Sidewinder Multi-cam and Spider
8.1 Multi-cam footwear.

**Mascot**
Mascot will exhibit a wide range of power supplies and battery chargers for the military industry, including
the new 2840 and 2840 LI chargers for lead acid and Li-ion batteries respectively.

**Polyformes**
The company will be featuring a new short gun case. The Polyformes Explorer 9413 is ideal for the
transportation of short weapons where easy handling plays an important role, particularly in critical
scenarios. The case is also suitable for housing medium length instruments, such as photographic lighting,
tripods, underwater survey devices, metal detectors and devices used for public security purposes.

**Rescue Solutions International, Inc.**
The company is now offering a unique wireless video camera as an accessory to the VerTmax telescopic
pole, allowing operators to “know before they go.” The pneumatically extended VerTmax can be deployed
with a camera module which transmits a wireless colour audio/visual signal to the digital video recorder
(DVR) receiver up to a line-of-sight distance of 450 feet / 135 meters. Night time operations utilize auto-
activated Infrared lamps and transmit black and white images to the receiver. The camera has the ability to
pan 170 degrees and tilt 140 degrees and is controlled remotely at the receiver module.

**Robosynthesis Ltd**
Robosynthesis has developed a patented, extreme-modular open platform robotics. The system can create
an unlimited range of multi mission robots for military and security sectors. It is multi scale so robots of
almost any size can be produced.
## SEMINAR PROGRAMME - TUESDAY 13th SEPTEMBER 2011

### Unmanned Theatre: North Hall, Entrance N3

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
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</thead>
<tbody>
<tr>
<td>10:30 - 11:30</td>
<td>Unmanned Scenario Demonstration - Foot Patrol in Afghanistan</td>
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<tr>
<td>12:00 - 12:45</td>
<td>UAV Systems Development - Challenges for ISTAR Support</td>
<td>Professor Ian Poll, Cranfield University</td>
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<tr>
<td>14:00 - 14:30</td>
<td>UAV Hangars in Harsh Climates</td>
<td>Jonathon Fenton, International Sales Manager, Sprung Instant Structures</td>
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<tr>
<td>14:45 - 15:15</td>
<td>Insitu - Sophisticated UAS</td>
<td>Steve Tanner, Director, International Business Development, Insitu</td>
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<tr>
<td>15:30 - 16:30</td>
<td>Unmanned Scenario Demonstration - Foot Patrol in Afghanistan</td>
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### Theatre One – North Hall, Entrance N4

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<th>Speakers</th>
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<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Looking Outside the Defence Industry for Solutions</td>
<td>Alistair Fergusson, Chairman, Motor Sport Industry Association; John Davy, Manager, The Structure Group; Rudolf Mandorfer, CEO, Steyr Motors GmbH; Arthur Sams, President, Polar Power Inc; Jonathan Edwards, Alcon</td>
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<tr>
<td>11:00 - 11:30</td>
<td>You Don’t Know Jack</td>
<td>Grant Hudson, Atkins Human Factors</td>
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<tr>
<td>12:00 - 12:45</td>
<td>Rapid Deployment Solutions for Defence from the Motor Sport Industry</td>
<td>Chris Aylett, Motorsport Industry Association</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>Reducing the Burden on the Dismounted Soldier</td>
<td>Dr Jeremy Smith, Head of Future Combat Systems, Cranfield University</td>
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<tr>
<td>15:00 - 15:45</td>
<td>Personnel Survivability</td>
<td>David Eadie, UK Regional Director, Cubic Defense Applications; Dan Mercer, Vice President &amp; General Manager, Iridium Communications Inc; John Frankham, Technical Lead Aerospace &amp; Defence, Cosworth Ltd</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>New Solutions for Defence</td>
<td>Rob Skarda, Sula Systems</td>
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### Theatre Two - North Hall, Entrance N7

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<thead>
<tr>
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<th>Seminar Title</th>
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<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Securing Critical Networks - Not Just a Government Issue?</td>
<td>Gordon Morrison, Defence &amp; Security Director, Intellect; Anthony Bridges, Principal Consultant, QinetiQ; David Livingstone, Principal Consultant, Harmonic; Emma Shaw, Esoteric</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Combined Resilience for Greater Effect</td>
<td>Laurence Marzell, Lead Cnt Scan, Serco; Ronnie Coutts MBE MA, Director, Emergency Planning College (UK)</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Obzerv's Range-Gated Cameras for long-range identification &amp; threat assessment.</td>
<td>Sylviane Lelievre, Marketing Director, Obzerv Technologies Inc</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>Proteez Counter Piracy Tactical Tabletop Demonstration</td>
<td>Ian McLaren MBE, Consultancy Director, Proteez</td>
</tr>
<tr>
<td>15:00 - 15:45</td>
<td>Communication is Our Best Defence Against Piracy</td>
<td>Jonathan Edwards, Alcon; Wouter Deknopper, Director of EMEA, Iridium Communications Inc; Christopher Ledger, Chairman, Idarat Holding LLC; Jon Leombrone, Harris Communications; Malcolm Warr, MD, Maritime Services</td>
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<tr>
<td>16:00 - 16:30</td>
<td>Infra Red Zoom: Lenses, Applications, Features and Trends</td>
<td>Dr Jonathan Kane, Director of irZoom.com, Computer Optics</td>
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SEMINAR PROGRAMME – WEDNESDAY 14th SEPTEMBER 2011
### Unmanned Theatre - North Hall, Entrance N3

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<tr>
<td>12:00 - 12:45</td>
<td>Exploring Modular UISGB Solutions</td>
<td>George Bond, Chairman, AC/135</td>
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<tr>
<td>14:00 - 14:30</td>
<td>An Update on Modular Robotic Solutions</td>
<td>tbc</td>
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<tr>
<td>14:45 - 15:15</td>
<td>A Tactical Micro-Robot that Saves Lives</td>
<td>Alan Bignall, CEO, Recon Robotics</td>
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<tr>
<td>15:30 - 16:30</td>
<td>Unmanned Scenario Demonstration - Foot Patrol in Afghanistan</td>
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<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>A Good Soldier Knows Good Communications</td>
<td>Craig Smith, MOD, DSTL; Tim Harrington, Business Development Engineer, Pole/Zero Corporation; Paul Zweers, Director International Operations, Harris Corporation</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Latest Trends in Automated Surveillance</td>
<td>Dori Schmetterling, Business Development Manager, iOmniscient</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Evolving Technology and Design in the World of Naval Capability</td>
<td>John Edwards, Alcon; Cdr Steve Kerchey, Senior Business Manager, Chemring Countermeasures; Eugene Morgan, Business Development Director, BMT Defence Services</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>Integrated Solutions for Naval Applications</td>
<td>tbc</td>
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<tr>
<td>15:00 - 15:45</td>
<td>Modern Submarine Design</td>
<td>Manfred Klein, Senior Vice President, Thyssen Krupp Marine Systems AG; Peter Bitzen, Senior Systems Engineer, Combat Systems; Alexandra Knight, Senior Consultant, Frazer-Nash</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Chronos Enhancing Mission Effectiveness</td>
<td>Andrew Proctor, Divisional Manager GNSS Applications &amp; Solutions, Chronos</td>
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</table>

### Theatre Two - North Hall, Entrance N7

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>The Cyber Doctrine - Insitute of security &amp; Resilience Studies (ISRS)</td>
<td>Dr J.P. Maclntosh, ISRS</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Malware reaoded: mitigating the next evolution of Cyber Attacks</td>
<td>Don Smith, Director - Counter Threat Unit, Dell</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Is the Cyber War Winnable?</td>
<td>Graham Wright, Northrop Grumman; Tony Dyhouse, Principal Cyber Security Consultant, QinetiQ; David Livingstone, Principal Consultant, Harmonic; Paul MacGregor, Finmeccanica Cyber Solutions; John Walker, MD, Secure Bastion Ltd</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>Integrating Governance, Risk &amp; Compliance Management with Real Time Network Monitoring</td>
<td>Dr Phil Nobles, Lecturer, Cranfield University</td>
</tr>
<tr>
<td>15:00 - 15:45</td>
<td>Security and Defence Services in Sao Paulo, Brazil</td>
<td>Major Walter Romano, Sao Paulo, Brazil, Military Police; Major Cassio Roberto Armani, Sao Paulo, Brazil, Fire Department; Laerte idalino Marzagao Junior, Sao Paulo, Brazil, Civil Police</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Defence + Security Investment in South Africa</td>
<td>James Baillie, Marketing officer ( Investment Promotion), South Africa DTI; Lucas Ndema</td>
</tr>
</tbody>
</table>

### Briefing Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00 - 16:00</td>
<td>Expeditionary Logistics + Support - Implementing Strategic Change.</td>
<td>Brigadier Jon Brittain, Head of ELS Capability, MOD; Captain Jim Lines, Royal Navy; Lt. Colonel Richard Gibb; Group Captain Tony Toner; Major Tim Elliot</td>
</tr>
<tr>
<td>14:00 - 16:00</td>
<td>An overview of Developments in Operational Healthcare</td>
<td>Surgeon Rear Admiral Lionel Jarvis, Assistant Chief of the Defence Staff (Health) &amp; Chief Naval Medical Officer/Medical Director General (Naval)</td>
</tr>
<tr>
<td>Time</td>
<td>Seminar Title</td>
<td>Speakers</td>
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</tr>
<tr>
<td>10:30 - 11:30</td>
<td>Unmanned Scenario Demonstration - Foot Patrol in Afghanistan</td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Contractorised UAS Operations; delivering ISR differently</td>
<td>John Jost, Author</td>
</tr>
<tr>
<td>14:00 - 14:30</td>
<td>Pathway Detection for Autonomous Navigation</td>
<td>Brian Clesham</td>
</tr>
<tr>
<td>14:45 - 15:15</td>
<td>Developing Capability to meet the requirement. Balancing the Technology with through life costs.</td>
<td>Malcolm Warr, Managing Director, Maritime Services Management Ltd</td>
</tr>
<tr>
<td>15:30 - 16:30</td>
<td>Unmanned Scenario Demonstration - Foot Patrol in Afghanistan</td>
<td></td>
</tr>
</tbody>
</table>

**Theatre One - North Hall, Entrance N4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Doing Business with Prime Contractors</td>
<td>Major General (Rtd) James Short; Jim Shaw, Defence M&amp;A Specialist, Target Corporate Finance; Irshad Bolly, Supply Chain Manager, BAE Systems</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>How to Do Business With NC3</td>
<td>tbc</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>How to Do Business With NAMSA</td>
<td>Robbert Smit, Deputy Director of Procurement &amp; Competition Advocate, NAMSA</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>How to do Business with AC/135</td>
<td>George Bond, Chairman, AC/135</td>
</tr>
<tr>
<td>15:00 - 16:30</td>
<td>DSEi Innovation Challenge</td>
<td>Dr Helen Almey, Centre for Defence Enterprise; Caroline Wyatt, BBC Defence Correspondent; Capt. Gordon Graham, Maritime and CBRN senior military advisor, DSTL; Louise Owen, Futures and Innovation Domain Lead, DSTL</td>
</tr>
</tbody>
</table>

**Theatre Two - North Hall, Entrance N7**

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Automatic Baggage Screening for Transport Security</td>
<td>Dr Toby Breckon, Senior Lecturer, Cranfield University</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>SENTINEL - Improving the Safety and Security of Critical Infrastructure</td>
<td>Andrew Proctor, Divisional Manager GNSS Applications &amp; Solutions, Chronos</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Palantir</td>
<td>Doug Philippone, Lead - Defense, Palantir Technologies Inc</td>
</tr>
<tr>
<td>14:00 - 14:45</td>
<td>CBRN - Threat Overview and the Way Forward</td>
<td>Brian Clesham</td>
</tr>
<tr>
<td>15:00 - 15:45</td>
<td>Can we Manage the IED Threat?</td>
<td>Juan Navarro, President of NIITEK, Chemring; Peter Hartley, Msc, CAET, MInstP, MIET, On behalf of Airolusion Ltd; Magnus McEwen -King, MD, Optasense; Nick Sutherland, Managing Consultant, Helyx Professional Service Practice</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Exploring Improvised Weapons Technology: Educating for the IED Challenge</td>
<td>Lt. Col Andy Stevens, Senior Lecturer, Defence Academy</td>
</tr>
</tbody>
</table>

**Briefing Sessions**

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 - 1000</td>
<td>Government Security Strategy Briefing</td>
<td>Rt. Hon Lord Reid of Cardowan, Chairman, Institute of Security &amp; Resilience Studies; Douglas Smith, Assistant Secretary to the Private Sector Office, Department of Homeland Security - US; Charles Farr, Director, Office security &amp; Counter Terrorism; Lord Toby Harris</td>
</tr>
<tr>
<td>13:00 – 17:00</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>14:00 – 16:00</td>
<td>Intellect Cyber Presentation</td>
<td>tbc</td>
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</tbody>
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**SEMINAR PROGRAMME - FRIDAY 16th SEPTEMBER 2011**
### Theatre One - North Hall, Entrance N4

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Scientific Facilities for Advanced Technology and Engineering in Defence</td>
<td>Science &amp; Technology Facilities Council</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Perforated Ultra High Hardness Armour Steel</td>
<td>Paul Davies, Tata Steel</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>David Brown</td>
<td></td>
</tr>
</tbody>
</table>

### Theatre Two - North Hall, Entrance N7

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:45</td>
<td>Recruitment in the Defence and Security Sector</td>
<td>Jake Bailey, RFEA</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Social Listening – Tracking Conversations in the Defence Industry on the Social Web</td>
<td>Patrick Herridge, Founder, Social 360; Barney O'Kelly, Head of Communications, Strategic &amp; Digital BAE Systems</td>
</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Fendercare Bespoke Solutions</td>
<td>Fendercare</td>
</tr>
</tbody>
</table>

### Briefing Sessions

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</tr>
<tr>
<td>12:00 - 12:45</td>
<td>Fendercare Bespoke Solutions</td>
<td>Fendercare</td>
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</tbody>
</table>

All programmes are subject to change or cancellation.

### Additional Events

**Monday 12th September & Tuesday 13th September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00 - 19:00</td>
<td>ACT Conference</td>
<td>Central London</td>
</tr>
</tbody>
</table>

**Tuesday 13th September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00 - 19:00</td>
<td>Evening Reception - BAE Systems</td>
<td>Type 45</td>
</tr>
<tr>
<td>18:00 - 21:00</td>
<td>German Embassy Reception</td>
<td>K130</td>
</tr>
<tr>
<td>19:00 - 21:00</td>
<td>Official Reception, Co-Hosted with SSAFA Forces’ Help</td>
<td>National Gallery</td>
</tr>
</tbody>
</table>

**Wednesday 14th September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00 - 19:00</td>
<td>Evening Reception - First Sea Lord</td>
<td>Type 45</td>
</tr>
<tr>
<td>17:00 - 19:00</td>
<td>Canadian High Commission</td>
<td>Boulevard Bar</td>
</tr>
<tr>
<td>19:00 - 20:30</td>
<td>US Reception</td>
<td>US Embassy</td>
</tr>
</tbody>
</table>

**Thursday 15th September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00 - 19:00</td>
<td>ADS Defence Reception</td>
<td>ExCeL East</td>
</tr>
<tr>
<td>19:00 - 21:00</td>
<td>IHS Jane’s Information</td>
<td>Westminster</td>
</tr>
</tbody>
</table>
Note: A full and detailed plan will be made available at the Escort Officers briefing on Sunday or Monday of the Show.
USEFUL INFORMATION

Ministerial Visits

There will be the highest level of representation from UK Government at DSEi 2011. Keynote addresses will be delivered in the Platinum Suite, RM 1&2 (accessed via the escalators at the West Entrance) on the following days:

Tuesday 13th September   1445 – 1515   (Rt Hon Dr Liam Fox MP, Secretary of State for Defence)
Wednesday 14th September 1130 – 1200   (Peter Luff MP, Minister for Defence Equipment, Support and Technology)

Please note: times may vary

Show Opening Times

Tuesday 13th September   9.30 - 1700
Wednesday 14th September 9.30 - 1700
Thursday 15th September  9.30 - 1700
Friday 16th September   9.30 - 1600

DSEi Concierge Service

The DSEi Concierge, has been introduced to provide a single point of contact for meeting visitor and exhibitor needs, such as help with hotels, restaurants and transportation. For information on means of transport to and from the venue or on the hospitality options available in London, please call the DSEi Concierge on +44 (0)1438 730 837. The Concierge Service can also be accessed via VNET.

UK MOD Facilities

For DSEi 2011 we have provided an MOD Engagement Lounge where the UK MOD can arrange meetings with exhibitors. If you are UK MOD and wish to make use of these facilities for your meetings, please contact Steve Baker on (0) 20 7370 8538.

Uniform

It is requested that serving officers wear uniform. It is understood that this may not be possible due to reasons of security, method of travel, etc. Changing facilities will be available at the venue, located at the North Hall Meeting Rooms between entrance N10 and N11 - this facility also holds lockers for personal bags and hats and is available free of charge; otherwise, a large complimentary cloakroom will be available for your use and is located at Level 0 in the central boulevard between N4 and S4.

VIP Reception

If you require assistance whilst at DSEi, please visit the VIP Reception which is located next to the Ships Visit Bureau between entrances N7 and N8.

DSEi VIP Guest Lounge

The DSEi VIP Guest Lounge, supported by General Dynamics, is situated at the East end of the North Hall, N10, and is available for VIP Guests to use at your discretion. The Guest Lounge is open for use throughout the exhibition and will serve refreshments throughout the day, including a cold fork buffet lunch. Timings are as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30 – 17:00</td>
<td>DSEi VIP Guest Lounge open daily from 13th September</td>
</tr>
<tr>
<td></td>
<td>(09:30 – 16:00 on 16th September)</td>
</tr>
<tr>
<td>12:00 – 14:00</td>
<td>Buffet Lunch available</td>
</tr>
</tbody>
</table>
Prayer Room

A prayer room and ablution facilities are located near The Briefing Rooms accessed via the escalator at the West entrance.

Ceremonial on Ships

Please be aware that due to the close proximity of the warships to the exhibition hall and the number of VIP visitors and official Overseas Defence Delegations expected to attend the exhibition, full ceremonial when boarding and leaving ships is impractical. Accordingly, Royal Navy ships have been instructed as follows, and it is anticipated that the visiting foreign ships will also adopt this:

During exhibition hours – courtesy hand salutes only at the brow or gangway (ie. no bands, pipes or broadcasts).

Outside exhibition hours – full ceremonial as laid down, between colours and sunset for official visits and specific events such as receptions.

Visits to Ships

All unescorted visitors are requested to check at the Ships Visits Bureau located in the central boulevard next to entrance N7, to see which ships are available for visits. Visits to warships will be popular; you are recommended to book a visit in advance of DSEi by contacting Captain Stephen Taylor on 07802 400081.

Travel

Chauffeured Cars. If arriving by chauffeured car, follow the vehicle signage to ExCeL West for the DSEi VIP drop-off point at the Western entrance to ExCeL. Alight at the far end of the drop-off point and proceed up the large main stairs at the front of ExCeL. Enter DSEi via the DSEi VIP entrance (right hand doors). If raining, please access the West entrance from the DSEi VIP drop-off point via the covered staircase or disabled ramp. Please note, to reach the DSEi VIP entrance, you may need to cross visitor queues entering DSEi through standard entry points. Drivers of chauffeured vehicles will not be badged for DSEi and so will not be able to gain access to the venue unless we have been notified that they are official accompanying staffs. **A purple car hanger will need to be displayed to access the VIP drop-off point. Please contact us if you require a hanger.**

Self Drive. If you are planning to drive yourself to DSEi, please follow signs for ExCeL West and park in The Royal Victoria Car Park, Western Gateway, E16 1XL and pay upon exit. Please contact us directly if you require parking for Diplomatic vehicles or MOD vehicles.

Taxi. If arriving by taxi, you will be directed to the taxi point at East Car Park via Festoon Way, E16 1RH, then enter the venue through the East end VIP and Delegation entrance.

Coaches (UK MOD). Return transport is being provided from MOD Abbey Wood to DSEi. If you are attending DSEi from MOD Abbey Wood, you are advised to book your seat in advance via Katrina McCabe, DESSec-InternalComms-Mgr3@mod.uk. There is no coach service from MOD Main Building.

Photo ID

You are requested to carry a valid form of photographic identification with you at all times *(passport, driving licence or military/government photo ID)*. There are a number of control and security points to pass through before entering ExCeL and discretionary checks will be conducted during the exhibition.
DSEi Preview

You may find our latest DSEi Preview useful, which can be accessed via the link (http://www.dsei.co.uk/preview). The Preview also provides information on the key features and seminars taking place at DSEi this year. Additional information can be found on the DSEi website (www.dsei.co.uk).

Contacts

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m: + 44 (0)7500 557705