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15 - 18 September 2015

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OFFICIAL EVENT PREVIEW



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After months of hard work and planning, DSEI 2015 is nearly here. As a global showcase of innovative defence and security equipment and technologies for land, maritime and air applications, as well as the latest developments for the security, unmanned, medical and disaster relief sectors, DSEI will provide access to the most advanced technologies and information available.

With this Official Event Preview, you'll gain an in-depth insight into the focused feature areas for 2015, alongside updates from the people in the know: the exhibitors. The Overview Seminar Programmes are as crucial for planning ahead, enabling you to decide which of the sessions are a must-attend for your company, and the Floorplan on pages 6-7 will help you to map your route at the event.

Don't forget to look over pages 65-70 – invaluable for helping to plan your visit with scores of useful information.

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Take advantage of new technology and invest in game changing solutions



The global defence and security picture continues to change, with the challenges that nations face increasing in complexity. At the same time, many militaries remain bound by tightened defence budgets. Defence and Security Equipment International (DSEI) has evolved to reflect these crucially important international developments. DSEI 2015 will feature 1,500 exhibitors, including 40 international pavilions. A total of 32,000 visitors are expected, comprising 100 international delegations.

The last NATO Summit delivered a significant recommendation on defence spending for member nations and despite continuing fiscal austerity, the defence budgets of a number of NATO countries have increased in response to the volatile global climate. This includes the United Kingdom which has committed to meeting the NATO target of 2% of GDP for defence.

Spending in the Middle East and Asia is also rising, with countries embarking on major recapitalisation programmes as capabilities reach the end of their operational life. Other nations are looking to extract the maximum value from existing equipment through selective upgrades and extension programmes. Developing partnerships between nations - and between industry and the defence customer - is key to finding operationally effective value for money solutions. DSEI offers a cost effective and efficient platform for this critical activity.

DSEI also offers a unique opportunity for all elements of those engaged in defence and security to meet and forge new ties. In a complex environment the need for all disciplines - maritime, land, air, space, cyber and the critical joint enablers - to act together is clearly recognised by nations.

The event has lined up a prestigious speaker list, starting with an opening keynote address from the UK's Secretary of State for Defence, the Rt Hon Michael Fallon, on Tuesday. On Wednesday there will be a keynote address from the UK's Minister of State for Defence Procurement, Philip Dunne. The four UK Service Chiefs will also give keynote speeches. Each day of the show will have a different Service focus, with the relevant chief speaking.

DSEI 2015 will also host a set of high-level Strategic Conferences on Monday 14 September. Senior speakers from UK and overseas military will address the future strategy of maritime defence, rotorcraft technology, front line medical services and lessons learnt from the recent Ebola epidemic.

This year will see an expanded seminar programme with over 300 seminar sessions and keynotes across different zones, providing visitors with an unprecedented learning and networking opportunity. These include: Air, Naval, Land, Security and Special Forces, Medical Innovation, Unmanned and Global Partnerships.

Across this spectrum of activity, DSEI will provide the context, the contacts and access to the thinking needed to develop effective solutions.

Exhibitors include prime contractors such as Airbus Defence & Space, Babcock, BAE Systems, General Dynamics, L-3, MBDA, Northrop Grumman, Finmeccanica, Iveco, Kongsberg, Lockheed Martin, Nexter, Rheinmetall Rolls-Royce, SAAB, Thales and Ultra Electronics. There will also be innovative offerings from supply chain partners and hundreds of small and medium enterprises (SMEs). With at least eight visiting warships and an exciting programme of waterborne demonstrations DSEI also enables visitors to view capabilities in an operational context.

DSEI 2015 is a must attend event and we look forward to welcoming you to ExCeL London in September.

Duncan Reid

DSEI Event Director

“*Developing partnerships between nations - and between industry and the defence customer - is key to finding operationally effective value for money solutions.*”



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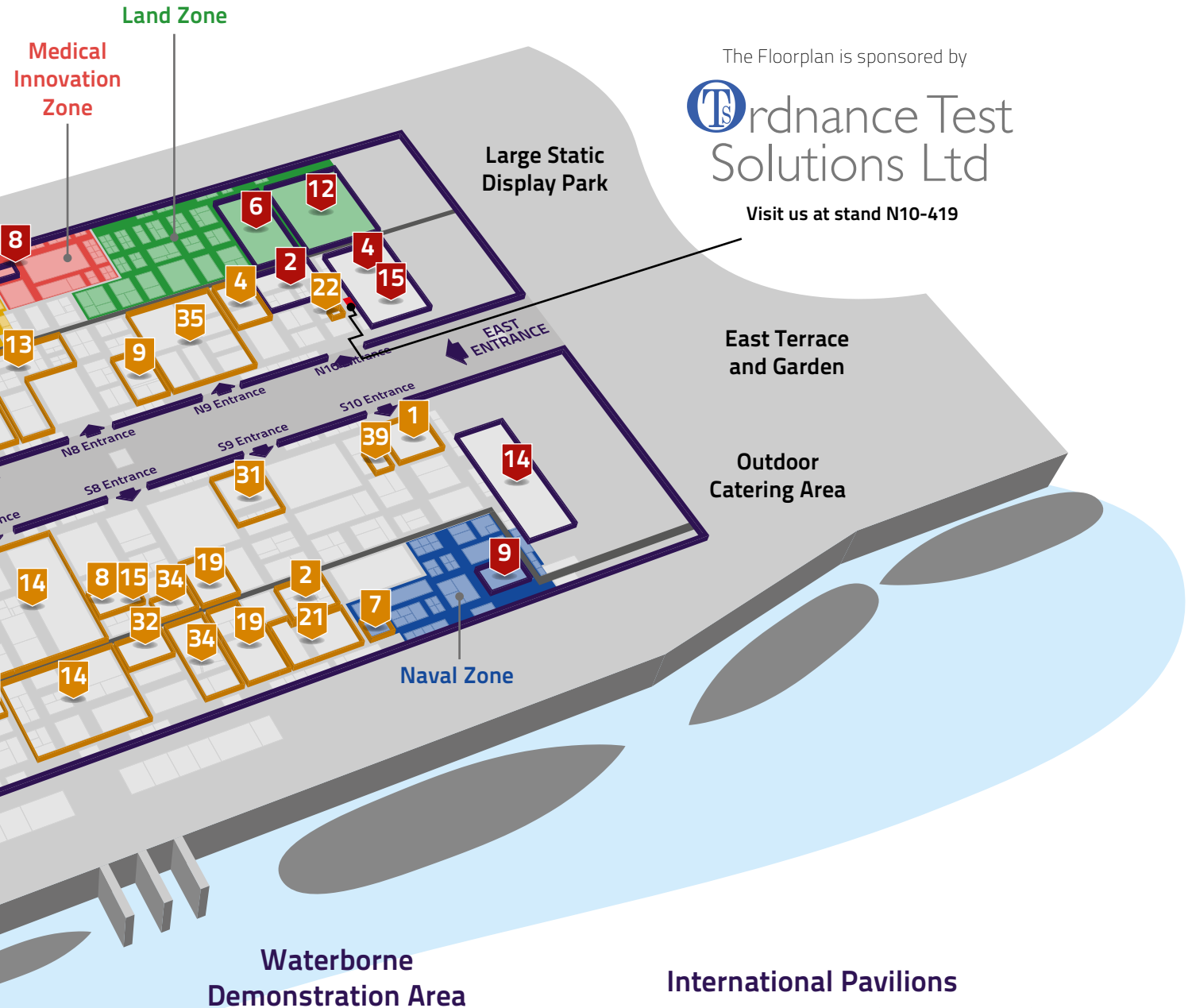
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Theatres & Feature Areas

- 1** Air Theatre
- 2** Communications Zone
- 3** Cyber Zone
- 4** Dining Room
- 5** Global Partnerships Theatre
- 6** East Theatre
- 7** Electronic Warfare Zone
- 8** Medical Innovation Theatre
- 9** Naval Theatre
- 10** Rotary Zone
- 11** Security and Special Forces Theatre
- 12** Land Static Display Area
- 13** UK Capability Showcase
- 14** UKTI DSO & UK MOD Lounge
- 15** VIP Lounge
- 16** West Theatre

International Pavilions

- 1** Australia
- 2** Austria
- 3** Belgium
- 4** Brazil
- 5** Bulgaria
- 6** Canada
- 7** Chile
- 8** Cyprus
- 9** Czech Republic
- 10** Denmark
- 11** Estonia
- 12** Finland
- 13** France
- 14** Germany
- 15** Greece
- 16** Holland
- 17** Indian Government
- 18** Indian Private Sector
- 19** Israel
- 20** Italy
- 21** Japan
- 22** Jordan
- 23** Latvia
- 24** Lithuania
- 25** Malaysia
- 26** Nordic
- 27** Norway
- 28** Poland
- 29** Serbia
- 30** South Africa
- 31** South Korea
- 32** Spain
- 33** Sweden
- 34** Switzerland
- 35** Turkey
- 36** UK
- 37** Ukraine
- 38** USA
- 39** Wales

How to make the most of DSEI

The best way to benefit from an event the size and scope of DSEI is to plan ahead. Here are some highlights you will not want to miss.

This DSEI is set to be even bigger and better than the 2013 event, with 95,000 sqm indoor space and 292,000 sqm outdoor space, including the dockside. This Preview is aimed at helping you plan your visit.

Keynotes

All four UK MOD Service Chiefs of Staff will give keynote speeches in the exhibition floor theatres on the days that are themed for their individual Services. Admiral Sir George Zambellas, First Sea Lord and Chief of the Naval Staff of the Royal Navy will speak on Tuesday; General Sir Nicholas Carter, Chief of the General Staff, British Army will deliver his keynote on Wednesday; Air Chief Marshall Sir Andrew Pulford, Chief of the Air Staff, Royal Air Force on Thursday. General Sir Richard Barrons, Commander Joint Forces Command will speak on Wednesday.

A number of ministers from the British government will also be speaking, the Rt Hon Michael Fallon MP, Secretary of State for Defence will deliver his keynote address in the East Theatre on Tuesday 15 September, and Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence will deliver a ministerial keynote in the West Theatre on Wednesday 16 September.

Seminars

The seven Seminar theatres, one in each of the six sector Zones plus the latest addition, the Global Partnerships Theatre in the North Hall, will host around 300 seminar sessions and keynotes, facilitating knowledge sharing and networking around key topics and technical areas. The seminars are organised around the overarching themes of Design (Tuesday 15), Deliver (Wednesday 16), Operations/Support (Thursday 17) and SMEs, S&T and Apprentices (Friday 18). Visitors can attend free educational sessions and technological showcases, and listen to panel and individual discussions on a wide range of subjects. In addition, there will be the DGP Innovation Challenge and Rising Stars Reception, held in the East Theatre on Friday 18 September.

International Features

Over 40 international pavilions have confirmed their presence at DSEI 2015, which will provide exclusive opportunities to network and build partnerships with companies and visitors from across the world. A number of nations are returning to this year's event, including Australia, Brazil, Chile, France, Germany, Holland, India, Israel, Italy and Switzerland. There will be several first-time appearances, too, from Malaysia, Latvia and Lithuania.

The Global Partnerships Theatre, located in the USA Pavilion, is a new addition to the DSEI world-renowned seminar programme for 2015, dedicated to exploring key growth markets, export opportunities and global supply chain best practice.

The international reach extends into the seminar programme with a strong speaker line-up, including: Admiral Carlos Ortega, Mexican Navy; Rear Admiral Jeff Harley, Assistant Deputy Chief of Naval Operations (Operations, Plans and Strategy), USA Navy; Lt Gen Alexander Schnitger, Commander, Royal Netherlands Air Force, and Rear Admiral Tony Dalton, Head Helicopters, Unmanned Aerial Systems and Guided Weapons Division (HUG-D), Australian Defence Organisation.

Strategic Conferences

New for DSEI 2015, four high-level conferences will take place on Monday 14 September (Day Zero) and Tuesday 15 September (Day One), and will provide opportunities for top industry professionals, academics and members of the military to discuss and debate important current topics. The conferences are focused on the future strategy of maritime defence, rotorcraft technology, front line medical services, and lessons learnt from the recent Ebola epidemic.

If you haven't arranged for a Strategic Conferences delegate pass yet, please email enquiries@dsei.co.uk.



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Official Delegation activity in plan for 2015

DSEI is renowned for the quality and strength of Domestic and International Military & Government Delegations in attendance.

Whilst DSEI 2013 welcomed record numbers of VIPs and Delegations, a number of new initiatives have been put in place for 2015 which will increase the number of attending and programmed delegations further still.

Official Government Overseas Defence & Security Delegations

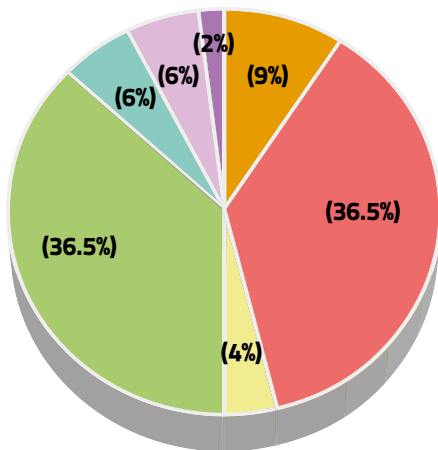
The UK Government (UK Trade and Investment Defence and Security Organisation - UKTI DSO) has issued a greater number of official invitations overseas at Ministerial, Chief of Defence Staff, National Armament Director and Service Chief Level. This will result in more countries and official representatives from each of the core sector groups of Land, Sea, Air, Security and Medical attending the 2015 event. DSEI 2013 was attended by 97 such delegations drawn from 56 countries, together with senior representatives of multinational organisations such as NATO and the UN. DSEI 2015 is on track to exceed these numbers.

popular scheme brought 2,867 VIP visitors to DSEI 2013 and more are expected to attend this year's event.

Indeed, throughout the past 22 months, the DSEI Defence Engagement team have strengthened ties with MOD and Government buyers and decision makers from the key growth markets, which will result in continued and increased international attendance from new and traditional markets including the Middle East, India, South America, South and Far East Asia, Australasia, USA and Europe.

On the domestic side, the DSEI Defence Engagement team and senior directors have met with key UK MOD and Government officials - including all UK Service Chiefs of Staff, the Minister for Defence Procurement and also the Services Procurement, Capability and Requirement Directors - where options were discussed for developing a platform at DSEI for their needs. As a result, DSEI 2015 has full collaboration and support from the UK Secretary of State for Defence and his Ministerial Team, the Royal Navy's First Sea Lord, the Chief of the General Staff of the British Army, the Chief of the Air Staff of the Royal Air Force, the Commander of Joint Forces Command and the Surgeon General. MOD Ministers and the Service Chiefs will lead the department's attendance, meeting invited overseas official delegations and engaging with UK and international exhibitors. Each of the services will have a presence at the event and a strong line-up of MOD speakers will feature in the Strategic Conference programme. DSEI 2015 is set to see the strongest levels of support ever from the UK Armed Forces.

DSEI 2013
Delegation Region of Origin



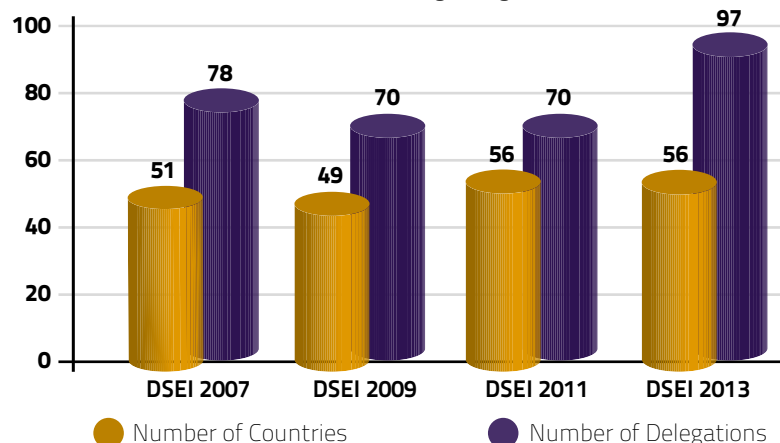
- AFRICA
- ASIA
- AUSTRALASIA
- EUROPE
- N. AMERICA
- S. AMERICA
- UNITED NATIONS

% of total number of countries represented at DSEI 2015.

Domestic and International Military VIP Delegations

Added value for exhibitors is provided by a comprehensive domestic and international VIP delegation programme which runs in parallel to the UK Government's official overseas programme. The target audience is senior officers and equivalent defence officials serving in defence equipment, together with operational appointees from Ministries of Defence across the globe. This

DSEI - Visiting Delegations



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The world comes to DSEI 2015

DSEI 2015 further strengthens its position as a global event with over 40 confirmed international pavilions, representing pioneering defence suppliers from all over the world.

The international scope of DSEI enables companies and individuals to build relationships, forge partnerships and access new markets by bringing key countries and entire

geographical regions within easy reach, all in one place. A selection of the confirmed pavilions provide updates and insight on key developments leading up to this year's event.



UK Pavilion

DSEI offers an important showcase for the UK's world-leading defence sector, and this year ADS will welcome 120 companies to the UK Pavilion to meet domestic and international delegations, potential customers and suppliers. The UK is the largest exporter of defence equipment and services in Europe and globally second only to the USA, generating annual revenues of more than £22bn and supporting thousands of skilled, high-value jobs.

To ensure the UK remains well placed to take advantage of existing and emerging opportunities, Industry and Government have joined in a unique collaboration to form the Defence Growth Partnership (DGP), to create a strategy to safeguard the industry's market-leading position. The DGP published its plan in July 2014 and Paul Everitt, Chief Executive of ADS Group Ltd, says that they are looking forward to hearing updates on how

the implementation of the plan is progressing during DSEI 2015.

One of the confirmed UK Pavilion exhibitors who have the same interest in both home and overseas defence strategies is WFEL Ltd - their rapidly deployable bridges form part of a dual-purpose solution, supporting both military and disaster relief operations, having been deployed by over 40 different armed forces. "Although WFEL attend several military exhibitions throughout the year, DSEI with its wide range of international delegations is of significant importance to us," said a spokesman for WFEL. "Being based in the UK Pavilion ensures that we will have the opportunity to meet delegations of senior military personnel from around the world, including those from countries that already use our bridges and those that wish to procure the very best dual use rapidly deployable systems that 100 years of WFEL engineering has to offer."



USA Pavilion

hosted by the Navy League of the United States

The USA Pavilion for DSEI 2015 is on pace to be the biggest one yet; already larger than the last two editions, more companies are expected to sign up over the next few weeks. With new initiatives for the event as a whole and a focus on delivering a stronger experience to the exhibitors, the pavilion has received support from industry, government and association/media partners.

of this show to launch new products and showcase emerging technologies to our valued global customers."

The Navy League of the United States are the lead supporting association and several media partners such as Forecast International, Small Arms Defense Journal and Defense News will also be present.

New exhibitors to the pavilion, including Leidos, Bell Helicopter/Textron, 707 Tactical Gear, Flame Enterprises, and Aeronix, will join companies such as Harris, Datron, Caterpillar, Polaris Defense, Sekai and Ultralife. Susan Lyne, Regional Managing Director for Europe at Harris Corporation says, "Harris highly values DSEI, and frequently takes advantage

The Global Partnerships Theatre, located next to the pavilion, will host senior US Government speakers discussing upcoming programmes and opportunities, as well as being the centerpiece for presentations on regional procurement opportunities in new and established markets such as South America, Asia, Middle East and Europe.





German Pavilion

The German Pavilion benefits from guidance from the Group for Defence Technology Fairs (GWM), which formed in 1996 to focus on demonstrating

the capabilities of the German defence technology industry at major international trade fairs. GWM presents a great opportunity, particularly for SMEs, to both

keep their individuality whilst retaining a unified front. The German Pavilion has expanded for this year's event, reflecting the greater focus on international trade.



French Pavilion

Over 20 exhibitors are already confirmed as part of the French Pavilion this year, an increase on the 2013 event with more to follow. TEXELIS, one of the confirmed Pavilion exhibitors, are excited about participating at DSEI. "We have specifically chosen this show for the launch of our brand new range of modular axles: Tango Modular and

the seven-tonne Independent Wheel Suspension System T700. DSEI gives us a great opportunity to introduce innovative and important new products to major defence players from around the world."

DSEI now has a strategic partnership with Business France, a prominent

French export promotion agency that is encouraging overseas sales and focusing on the security side of the French defence industry. They will be running a series of meetings with companies to help their businesses prosper and expand into further markets; the French Pavilion this year promises a stimulating and profitable outcome.



Korean Pavilion

KDIA, the promoter of the South Korean Pavilion, is a non-profit civilian organisation working for the Ministry of National Defence (MND) to promote the Korean Defence Industry. Their involvement

this year has already seen an increase in the Pavilion's area from DSEI 2013. Influential names will once again make an appearance, including Hyundai Heavy Industries, Kangnam, Vitrozcell and TCK

Textiles. South Korea's major advances in technology over the past couple of years mean that visiting the Korean Pavilion is the perfect opportunity to discover state-of-the-art solutions from this country.



Team Defence Australia

DSEI is the perfect platform for the Australian defence community to join together and showcase their capabilities. Australia's military operating environment is amongst the most challenging in the world, bordered by three of the world's great oceans. The Australian Defence Force (ADF) operates in a broad range of

environments; their equipment needs to be effective in high heat and humidity, the fluctuating temperatures of the arid deserts, cold Antarctic waters, and a vast littoral warm water environment.

Team Defence Australia (TDA) promotes Australia's innovative defence and

security technologies, engaging the leaders, operators and capability experts of the ADF and the technical expertise of Australian industry. Global customers benefit from the sustainable industry expertise within the Australian defence community, and TDA will bring thriving companies to DSEI 2015.

International Pavilions include:

Australia

Austria

Belgium

Brazil

Bulgaria

Canada

Chile

Cyprus

Czech Republic

Denmark

Estonia

Finland

France

Germany

Greece

Holland

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Japan

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GLOBAL PARTNERSHIPS SEMINAR AND BRIEFING PROGRAMME


Tuesday 15 September

EUROPE

1000	<p>Globalization of Supply Chain and its Impact on Offsets Thought Leadership Panel</p> <p>Moderator: Dr Kogila Balakrishnan, Principal Fellow at WMG, University of Warwick</p> <p>Panelists: Prof Ron Matthews, Professor of Defence Economics, Cranfield University Defence and Security</p> <p>Brinley Salzmann, Director, Overseas & Exports, ADS Group Ltd</p> <p>Fabrizio Harley, Defence and Security Industrial Engagement Policy, Defence Equipment and Support</p> <p>George D. Ballingall, Principal Manager, Contracts & Compliance, Rockwell Collins UK Limited</p>
1100	<p>Lancaster House Treaty - Defence Cooperation</p> <p>Peter Watkins CBE, Director General Security Policy, Ministry of Defence</p>
1130	<p>KEYNOTE ADDRESS</p> <p>Held in Naval Theatre</p> <p>Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of Staff of the Royal Navy</p>
1200	<p>The Orange Book: Implementation of Single Source Contract Regulation</p> <p>Charly Wason, Head of Single Source Advisory Team, DG Commercial, MOD</p>
1230	<p>KEYNOTE ADDRESS</p> <p>Held in West Theatre</p> <p>Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence</p>
1300	<p>Independent, Fair, Transparent: Regulating Single Source Defence Procurement</p> <p>Marcine Waterman, Chief Executive, Single Source Regulations Office (SSRO)</p>
1330	<p>Engaging with French Procurement and French Defence Industry</p> <p>Patrick Roynette, VP Business Development, IRTS</p>
1400	<p>Doing Business with Spain and the Opportunities in the Current Spanish Defence Sector</p> <p>General D. Luís Manuel López Gonzalez, Chief of OFICAEX, Spanish Ministry of Defence</p>
1430	<p>UK Defence Solutions Centre (Defence Growth Partnership) Session</p> <p>A New Way of Innovating & Collaborating</p> <p>Steve Brittan, CEO, UK Defence Solutions Centre, DGP</p> <p>A Partnering Opportunity</p> <p>Andrew Radcliffe, Chief Executive Office, UK Defence Solutions Centre, DGP</p> <p>Setting the Conditions for Collaborative Delivery</p> <p>Paul Burt, Executive Director, Programmes, UK Defence Solutions Centre, DGP</p> <p>Innovation: A Solutions Route</p> <p>Paul Winstanley, UK Defence Solutions Centre, DGP</p> <p>Steering towards Export Success</p> <p>James Allibone, DGP</p>

Wednesday 16 September

AMERICAS, MIDDLE EAST & AFRICA

1000	<p>Government's vision for the SA Aerospace and Defence Sector</p> <p>Industry Overview, Opportunities & Incentives</p> <p>Janine Fredericks, Deputy Director (Aerospace and Defence - Investment), Department of Trade and Industry, South Africa</p>
1030	<p>MINISTERIAL KEYNOTE ADDRESS</p> <p>Held in East Theatre</p> <p>The Rt Hon Michael Fallon MP, Secretary of State for Defence UK</p>
1100	<p>The Broad Based Black Economic Empowerment Framework within the Defence Industry.</p> <p>Nomkhosi Magwaza, Divisional Manager: BEE, ARMSCOR</p>
1130	<p>KEYNOTE ADDRESS</p> <p>Held in East Theatre</p> <p>General Sir Nicholas Carter KCB CBE DSO ADC Gen, Chief of the General Staff of the British Army</p>
1200	<p>The Evolving Global Defence Trade and the Middle East</p> <p>Ben Moores, Senior Analyst, IHS Jane's</p>
1230	<p>SME How to do Business with Saudi: Risks, Challenges & Practicalities</p> <p>Brigadier (Retired) Jim Tanner, AEI Saudi</p>
1300	<p>Hosted by LAAD</p> <p>Chief of Staff, Chilean Armed Forces</p> 
1330	<p>KEYNOTE ADDRESS</p> <p>Held in Security & Special Forces Theatre</p> <p>General Sir Richard Barrons KCB CBE ADC Gen, Commander, Joint Forces Command UK</p>
1400	<p>Purchasing Process on Internal and External Market</p> <p>General Adalmir Manoel Domingos, Director of Material, Army's Logistics Command - COLOG, Brazilian Army</p>
1430	<p>Growth Market in America</p> <p>Laurie Hays, International Trade Specialist, US Department of Commerce</p>
1500	<p>Investing in the US</p> <p>Gus Franklyn-Bute, Senior Regional Investment Advisor, US Department of Commerce</p>

GLOBAL PARTNERSHIPS SEMINAR AND BRIEFING PROGRAMME

Thursday 17 September

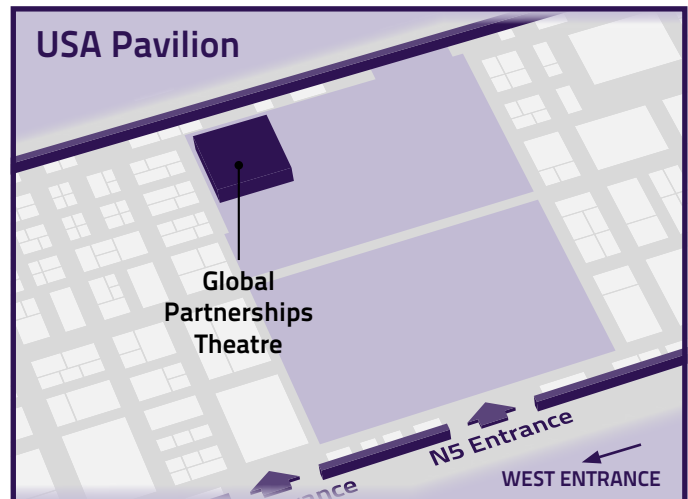
ASIA PACIFIC

1000	Opportunities in Asia Ed Hobbs, Director, Hawk Information
1030	Delivering Australian Defence Force Capability Warren King, Head Team Defence Australia Delegation
1100	Opportunities & Acquisition of the Republic of Korea Defence Capabilities Jae-ik Lee, Deputy Minister for Contract Management Agency, Defense and Programme Administration
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC, Chief of the Air Staff of the Royal Air Force
1200	Working with the Japanese Defence Industry
1230	Doing Business in India: Defence Procurement Procedure 2015 Colonel (Retd) AK Sharma, Editor, South Asia Defence & Strategic Review
1300	Doing Business with India: Opportunities Lt Gen Anil Chait (Retd), Former Chief of Integrated Defence Staff, MOD India
1330	Doing Business in India: Processes and Bottlenecks Colonel (Retd) Prabudh Sharma, Associate Editor, South Asia Defence Strategic Review
1400	The Malaysia Defense Industry and the New Industrial Collaboration Programme (ICP) Policy Wan Mohd Asraf bin Wan Salleh, Undersecretary, Defence Industry Division, Ministry of Defence Malaysia
1430	Delivering Capability to the Singapore Armed Forces Mr Tan Peng Yam, Chief Executive, Defence Science and Technology Agency, Singapore (DSTA)
1500	India

Friday 18 September

EXPORTS

1000	The European Defence Industrial Landscape Professor Trevor Taylor, Professorial Research Fellow, Defence, Industries and Society Programme, RUSI
1030	US Export Control Reform Michael Vaccaro, Director, Office of Strategic Industries and Economic Security, Bureau of Industry and Security, US Department for Commerce
1100	Export Controls on Military and Dual Use Goods Tim Morris, Senior Policy Adviser, HM Revenue and Customs
1130	DSEI Rising Stars Reception Held in East Theatre The Rising Stars Reception offers great networking and learning opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.





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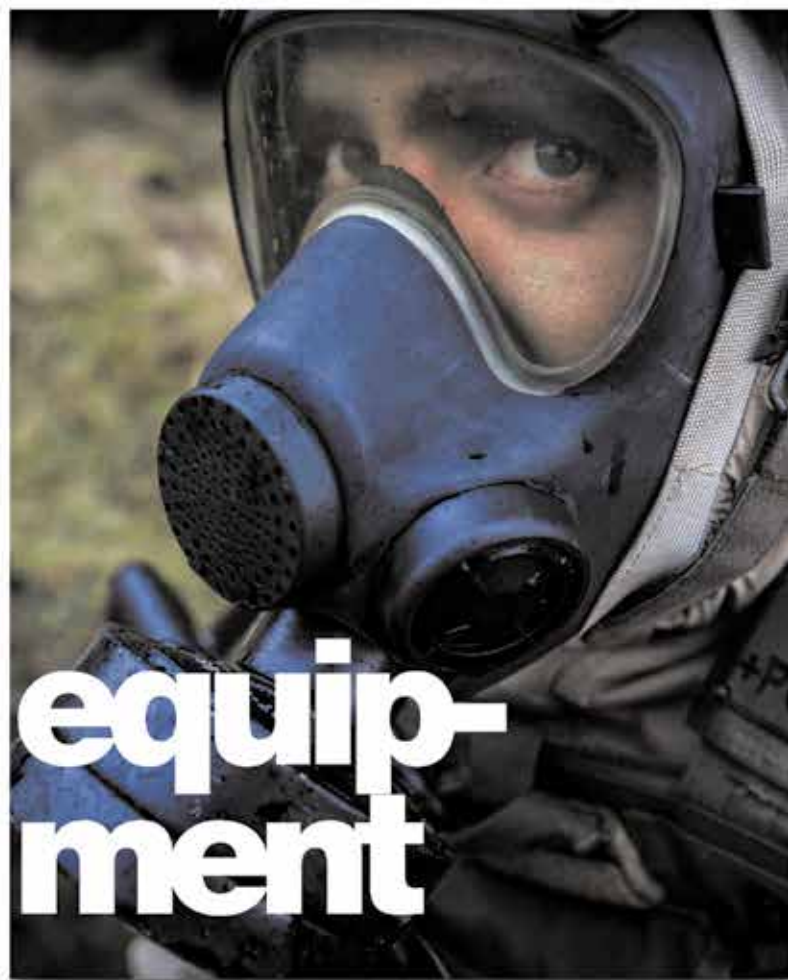
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Facing the present, shaping the future

DSEI 2015 will be the year's leading event where visitors can access the entire land systems supply chain.

Confirmed Land Exhibitors include:

- | | |
|-----------------------------|--------------------------------|
| Aeroglow | JCB Government & Defence |
| AES Defence | JPA Armouring |
| Air-Seal Products | Land Rover |
| Aireshelta | Lifeline Fire & Safety Systems |
| AMSAFE | Lockheed Martin |
| Automotive Tools | Milbrook Proving Ground |
| Avon Protection | Miltech Hellas |
| BA Blades | MIRA |
| BAE Systems | National Army Museum |
| Bear Arm | Noricum |
| BETH EL | Oh-Concepts |
| Brolis Photonics Solutions | OSEC |
| British Army | Patria Oyj |
| Burgess Consulting | Quickbuild |
| Caged Steel | RADIA s.r.l. |
| Caparo | Rheinmetall |
| Counter Measure Systems Ltd | SABRE |
| Cranfield University | Sliding Systems |
| CS - Force Company | SPA Design |
| Davall Gears | Spafax Int. |
| English Braids | ST Kinetics |
| Fortress GRP | Steelcore Designs |
| General Dynamics | Stream Enviro |
| Genquip Groundhog | Supacat |
| HDT Global | TR5 |
| HESCO | Viking Arms |
| Hiremasters | Vital Seating |
| HiTek-Ltd | Webster Drives |
| Interpump Hydraulics | Wurth |
| Isotrex Manufacturing FZE | ZA Defence Ltd |
| Jankel Armouring | |

The land systems component of DSEI will showcase the latest innovations from manufacturers from around the world, providing a window on developments in policy and the shape of the strategic challenges to be faced in the future.

Over 700 land-focused exhibitors are expected at DSEI, and the dedicated Land Zone will be the largest to date, with more suppliers, content and diversity, significantly expanded to accommodate around 100 international exhibitors, ranging from prime contractors to niche specialist suppliers.

One of the driving forces behind the expansion is the enhancing and rebranding of the land static display area, which will demonstrate the latest capabilities from major vehicle manufacturers in the defence industry. This area will provide both visitors and exhibitors with the perfect platform for networking, building relationships and viewing the latest advancements in technology.

Iveco are planning to bring three vehicles to the 2015 Land Zone, and Supacat will launch a new product range. First time exhibitors Isotrex Manufacturing FZE and CS - Force Company are also launching new products at the event, with the latter also presenting three prototype vehicles on its stand.

A new feature for DSEI 2015 is the Future Soldier Systems, where exhibitors will present

state-of-the-art current and future capabilities and solutions. It will be an opportunity to discuss new technologies, trends in combat clothing, tactical requirements for national soldier systems and other key issues.

The East Theatre, situated within the Land Zone, will feature high level speakers debating and discussing key topics and issues, giving an excellent opportunity to gain insight into the future of the international land sector.

Commenting on the British Army's expanded presence at DSEI 2015, Gen Mark Poffley, OBE, Commander Force Development and Capability, stated, "Recent events have highlighted the need for an integrated and persistent security response across a wide spectrum of operations. The British Army is reconfiguring to meet the challenges of the contemporary security environment. An important part of this adjustment is establishing a close relationship with its industrial partners, seeking out innovative and relevant solutions".

The exhibitor list for land systems features companies involved in the heartland of MOD programmes, including Lockheed Martin. Other major companies exhibiting include BAE Systems, General Dynamics, Jankel Armouring, JCB Government & Defence, Land Rover, Patria Oyj, Rheinmetall and Supacat.



Getac unveils rugged and secure mobile hardware – inside and out



Getac

Military environments often require end users to battle harsh environments while needing access to extremely sensitive data. That is why at DSEI Getac is launching its latest secure tablet which combines Getac's unparalleled physical ruggedisation with hardware security from an industry-leading encryption partner.

Getac's market-leading 11.6" F110 Windows tablet, certified to MIL-STD-810G, has been modified to integrate a CESG-certified secure 2.5", 7mm Solid State Disk (SSD). The modification allows the tablet to hold, process and protect classified data up to and including Top Secret. The small form factor, coupled with the secure SSD, means true mobility for end users working with highly classified data, while in precarious physical and security environments. The new F110 means that users who previously had to carry a laptop now have access to a fully rugged yet low-profile secure tablet solution.

- **Helyx** – geospatial (location-based) information systems and their management, information exploitation and capability management support
- **Becrypt** – Windows and Android software encryption solutions, up to and including Top Secret
- **Phoenix** – Electronic Flight Bag (EFB) platform integration

Getac has supplied militaries worldwide with fully rugged computing devices since 1989, when the firm was founded as a joint venture between GE Aerospace and MiTAC to supply electronic products to the defence industry. These include the new T800 thin and light fully rugged 8.1" tablet, the X500 fully rugged mobile server, and the 7" Z710 Android tablet – all of which will be available at DSEI for evaluation.

Today, Getac is a subsidiary of the \$30bn MiTAX-Synnex Group and supports militaries and defence agencies across the globe, including the US Army and the UK Ministry of Defence.

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All partners and products are available to view at Stand S9-207

In addition to the F110 with secure SSD, Getac will be joined on the stand by a range of industry partners. Getac collaborates closely with experts in both the hardware and software solution space, resulting in truly unique products and solutions that fit exactly with customer requirements.

Getac's partners at DSEI are:

- **Centerprise International** – End-to-end supply chain IT management service in secure data environments
- **Serbus** – experts in commercial and defence communication solutions with Cryptify, providing secure voice calls and secure messaging, worldwide

X500 Fully Rugged Mobile Server

The X500-G2 Fully Rugged Mobile Server combines the highest level of mobile performance without compromise. Designed for military use with MIL-STD-810G certification and rated to IP65, the X500 has been designed to survive critical working environments without any compromise on performance. Communication is handled seamlessly

through best-in-class networking interfaces, including standard Dual Ethernet, Intel® Dual Band Wireless-AC 7260 and Bluetooth (WiFi Combo BT4.0). Optional SiRFstarIVTM GPS Gobi™ mobile broadband functionality can also be specified.

The X500 also operates on Windows Server 2012, which allows server

clustering to protect against failure and deliver continuous high-performance operational up-time. This includes load balancing by distributing workloads across connected units which maximises performance levels while enhancing availability, and fault tolerance, which prevents downtime and allows continuous device operation.



EAST THEATRE SEMINAR AND BRIEFING PROGRAMME

Tuesday 15 September

LAND FORCE DEVELOP

1000	The Future Army Lieutenant General Mark Poffley, Deputy Chief of the General Staff, Ministry of Defence UK
1030	The Army's Modernisation Agenda Major General Nick Pope, Director Capability, Ministry of Defence UK
1100	Australian Army Modernisation Brigadier Ben James, Director General Modernisation, Australian Army
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of Staff of the Royal Navy
1200	Military Capability Planning - Continuous Improvement Air Marshal Sir Stephen Hillier, Deputy Chief of Defence Staff (Capability), Ministry of Defence UK
1230	KEYNOTE ADDRESS Held in West Theatre Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence
1300	Supply Chain Integration to Deliver Operational Complexity Paul Kettle, Business Development Director Defence, TVS Supply Chain Solutions
1330	Scalable GroundBased Link 16 Air Defence System Philip Yanni, Architect, Rockwell Collins Global Joint Forces
1400	Wargaming Approaches for Analysis and Operations Jeremy Smith, Head of Simulation and Analysis, UK Defence Academy, Cranfield University
1430	Dismounted Soldier Battle Management - Net Enabling Small Arms Matthew Millwards, VP UK, Europe & North Africa, Systematic and Warren Downing, Director Colt Advanced Systems at Colt Canada Corporation
1500	The CBRN Threat - Lessons Learnt from Syria & Iraq for Future CBRN Policy & Capability Hamish de Bretton-Gordon, Managing Director CBRN, Avon Protection
1530	Understanding Future Operation Challenges: EW Support to the Littoral and Land Environment Major General David Hook CBE, EW Business Development Executive, L-3 TRL Technology
1600	Transforming the Armed Forces in the Digital Age - The Life Cycle of Defence John Stokoe CB CBE, Head of Strategic Development, Dassault Systèmes EuroNorth

Wednesday 16 September

LAND FORCE DELIVER

1000	Two Unforeseen Wars: A Military Analysis of the Conflict in Ukraine and the Campaign Against ISIS Brigadier (Retired) Ben Barry OBE, Senior Fellow Land Warfare, International Institute for Strategic Studies (IISS)
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP, Secretary of State for Defence UK
1100	Presentation by Defence Growth Partnership
1130	KEYNOTE ADDRESS Held in the East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen, Chief of the General Staff of the British Army
1200	Defence as a Platform in the Land Environment Major General Richard Semple CBE, Army Chief Information Officer, Army HQ David Lynam MBE, Director Service Development, Information Support Systems (ISS) Industry Speaker TBC Q&A
1330	KEYNOTE ADDRESS Held in Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen, Commander, Joint Forces Command UK
1400	Air Commodore Simon Moss
1430	Developing Innovative Support Solutions and Reducing Logistic Demand Major General Mark Gaunt, Director Support Army HQ, Ministry of Defence UK
1500	An Approach to Bringing Innovation to Support and Acquisition Major General Paul Jaques CBE, Director Land Equipment DE&S, Ministry of Defence UK
1530	How Industry Works in Delivery with the Army and DE&S as its Agent Alan Lines, Vice President and Managing Director, Lockheed Martin UK
1600	Q&A

EAST THEATRE SEMINAR AND BRIEFING PROGRAMME

Thursday 17 September

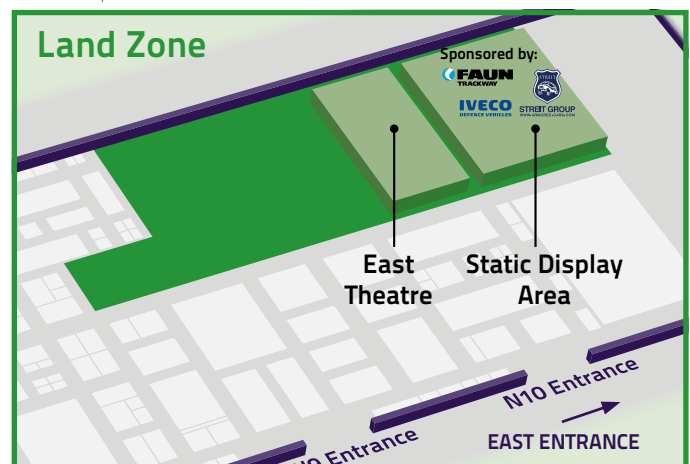
LAND FORCE GENERATE/OPERATE

1000	Brigadier Jon Brittain , Policy Head, Assistant Chief of the Defence Staff (Logistic Operations)
1030	Transforming the UK Defence Supply Chain Andrew Cannon-Brookes , Director Support Enablers Operating Centre, Ministry of Defence UK
1100	Future Logistics IS Steve Glass MBE , Head of Support Chain Information Services, Support Enablers Operating Centre, Ministry of Defence UK Dave Madigan , Boeing Defence
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force
1200	Transforming the UK Defence Support Chain Roger West , Director, Logistics Delivery Operating Centre, Ministry of Defence UK
1100	The Army Reserve in an Integrated Force Representative of Deputy Commander Land Forces , Ministry of Defence UK
1300	UK MOD Workshop: Land Open Systems Architecture and the Land Technical Authority (LOSA/LTA) Stand-Up A series of short presentations describing the progress on the Land Open Systems Architecture and the Land Technical Authority by the key DE&S personnel involved. Opening Address 'LOSA and the LTA' Simon Christoforato , UK Defence Solutions Centre 'Developing LOSA, The Story so Far' Chris Preston , DE&S Technology Office
1400	KEYNOTE ADDRESS Held in East Theatre Lt Gen Sir Christopher Deverell , Chief of Materiel (Land), DE&S, Ministry of Defence UK
1430	British Army Workshops Generic Vehicle Architecture: 'Where we are and where we want to be' Keith Smith , GVA Office, DE&S LEOC Generic Soldier Architecture: 'Where we are and where we want to be' Ian Burch , Open Systems Assistant Head, DE&S LEOC Progress on Standing-up the LTA Ian Burch , Open Systems Assistant Head, DE&S LEOC

Friday 18 September

SMES, S&T & APPRENTICES

1000	Defence Growth Partnership (DGP) Innovation Challenge The Defence Growth Partnership (DGP) is a unique collaboration between UK Government and leading companies from UK Defence Industry. It has been formed to meet the challenges of increased international competition for defence business, and has created a collaborative environment to enable the UK to offer the very best solutions, tailored to meet international customer needs, including the Ministry of Defence. In March 2015, the DGP launched its UK Defence Solutions Centre. The UKDSC is an independent body that has the mandate to lead the strategic planning and development for the UK Defence Industry, promoting growth in defence exports for the UK. At the launch of UKDSC, the MOD announced that it was investing £10million to fund the DGP's first Innovation Challenge. The themes presented in the DGP Innovation Challenge have been informed by studies already conducted by the DGP to identify the most attractive future export markets for defence solutions, and also engagement with MOD to understand a range of its future key requirements. In partnership with DSTL / CDE, the UKDSC has scoped a range of challenges that focus on persistent surveillance, autonomy and training to UK industry, and are seeking innovative proposals from a diverse range of companies, including non-defence sector, to meet the Challenges. This session will: <ul style="list-style-type: none"> • Give an overview of the UK DSC and highlight recent activities and future opportunities • Overview of the first phase of the Innovation Challenge and winners • Announce the opening of the competition for the second phase of the Innovation Challenge Steve Brittan , UK Defence Solutions Centre, DGP Paul Winstanley , UK Defence Solutions Centre, DGP
1130	DSEI Rising Stars Reception Held in East Theatre



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Air industries put innovation at forefront

This year's Air Zone builds on the success of the previous DSEI and highlights the importance of the supply chain.

The Air Zone at DSEI this year will be notably larger than previous editions of the event, highlighting the interconnectivity between aircraft and aerospace equipment and technologies and their counterparts in the land and maritime sectors.

The Zone will include an area dedicated to rotorcraft and a capability area dedicated to the aerospace supply chain, with a comprehensive seminar programme reinforcing the event's broader themes of procurement, training, export maximisation and SME support.

Air Cdre R D Mason OBE said, "The Joint Helicopter Command is very much looking forward to attending DSEI 2015 and the Rotorcraft Strategic Conference. The event comes at a time when the Command is adjusting to face contemporary challenges after more than a decade of hard campaigning. The JHC's Future Capability Strategy, which provides a roadmap for the development of Air Manoeuvre capability over the next three decades, will soon be implemented and DSEI provides a great opportunity to discuss emerging opportunities with our industrial partners."

An outdoor display area will provide the aerospace and rotorcraft industry with a forum in which to showcase their latest innovations to current and prospective customers. The display of fixed and rotary wing military aircraft is likely to surpass the 2013 edition, with static displays expected to include a Sea King helicopter, Merlin, Wildcat, and Eurofighter Typhoon multi-role combat aircraft, amongst others.

The Air Theatre will provide an opportunity for visitors from the industry and across the globe to meet and discuss key issues, including the delivery of effective air power.

Exhibitors offering solutions in the air domain will include Airbus Defence & Space, Bell Helicopters, Saab AB, Lockheed Martin, Boeing and Northrop

Grumman. In addition, there will be a host of global supply chain providers such as Aero Tec Laboratories, Copper and Optic Terminations, Helmet Integrated Systems, IA Technology, Linwave, Lyra, Metis Aerospace, Mototok International GmbH and PPG Aerospace.

The breadth of innovation has been met with unprecedented approval from the RAF, who will be bringing a large contingent to DSEI 2015.

Air Vice-Marshal Malcolm Brecht, Chief of Staff Air Capability, said: "DSEI 2015 enables us to highlight themes that will influence future UK air capability, and we will continue to pursue the excellent opportunity that DSEI 2015 provides to engage in high-level industry briefings and bilaterals."

Confirmed Air & Rotary Exhibitors include:

- | | |
|-------------------------------|----------------------------|
| 2D3 Sensing | Lyra Ltd |
| Aero Tec Laboratories Ltd | METIS Aerospace |
| Air & Marine Products Ltd | Mototok International GmbH |
| Airbus Defence and Space | MPI |
| ASE Corporate Eye Care | Northrop Grumman |
| Bell Helicopters | Pandect |
| Boeing | PPG Aerospace |
| Copper and Optic Terminations | |
| Ex-Eltronics (UK) Ltd | |
| Exel UK | |
| Gentex Corp. | |
| Helmet Integrated Systems | |
| Hemisphere GNSS Inc. | |
| IA Technology | |
| Keysight Technologies UK Ltd | |
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AIR THEATRE SEMINAR AND BRIEFING PROGRAMME

Air Theatre Sponsor:

Tuesday 15 September

AIR DEVELOP

1000	RAF Presentation Team
1030	Innovation and Development of Capabilities Air Commodore Simon Rochelle , ACOS Capability Development, Royal Air Force
1100	Science & Technology: Innovation in Practice, Exploiting Disruptive Capabilities Dennis Fryer , DSTL
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS , First Sea Lord and Chief of Staff of the Royal Navy
1200	The Future of Air and Missile Defence in Europe Horst Boljahn , Senior Representative Air and Missile Defence, MBDA Deutschland
1230	KEYNOTE ADDRESS Held in West Theatre Philip Dunne MP , Minister of State for Defence Procurement, Ministry of Defence
1300	Air Power in the Cyber Environment Group Captain Martin Johnson , Director National Air Defence and Space Operations, Royal Air Force
1330	Space Policy, Capability and Future Group Captain Martin Johnson , Director National Air Defence and Space Operations, Royal Air Force
1400	Future Air & Space Representative from DCDC
1430	Unmanned Evolution/Being a Leader in Future Capabilities Scott Winship , Vice President, Program Management, Northrop Grumman Aerospace Systems
1500	RAF Presentation Team
1600	Royal Australian Air Force Modernisation Air Vice Marshal Mel Hupfeld , Acting Chief Capability Development Group, Royal Australian Air Force

Wednesday 16 September

AIR DELIVER

1000	RAF Presentation Team
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP , Secretary of State for Defence UK
1100	The Future of the Global Aerospace & Defence Supply Chain Peter Smith , CEO and Chairman, Nasmyth
1130	KEYNOTE ADDRESS Held in East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen , Chief of the General Staff of the British Army
1200	A400M Air Commodore David Lee , ACOS Capability Delivery AM & AE, Royal Air Force
1230	The Power of Airborne Networking/5th Gen Innovation Northrop Grumman Thought Leadership Panel Moderator: Andrew Tyler , Chief Executive, Europe, Northrop Grumman Corporation (CE) Panellist: Greg Jones , Director, Global Business Northrop Grumman Information Systems (IS)
1330	KEYNOTE ADDRESS Held in Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen , Commander, Joint Forces Command UK
1400	RAF Presentation Team
1430	The Lightning Programme Air Commodore Lincoln Taylor , ACOS Capability Delivery CA & ISTAR, Royal Air Force
1500	DE&S: Supply Chain Challenge
1530	Time for Change: Industry Providing Munitions Management & Supply Solutions Miles Lalor , Business Development Manager, BAE Systems

Thursday 17 September

AIR OPERATE/SUPPORT

1000	RAF Presentation Team
1030	Synthetic Rotary Training David Marsh, Training Solutions Manager, CAE
1100	RAF Reserves/Industry
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force
1230	Air Battlespace Training Centre (Synthetic Training) Group Captain Martin, Royal Air Force
1300	The Challenges for Airborne ISR in the Information Age Air Commodore Ian Gale , ACOS Capability Delivery C2 ISTAR, Royal Air Force
1330	RAF Presentation Team
1400	Science & Technology: Next Generation Training Hash Hassan, DSTL
1430	Sustainability and Modernization for a Changing World Cathy Gridley, Northrop Grumman Technical Services
1500	RAF Presentation Team
1530	UK Operational Approach to Training - A New Paradigm Ed Frankland, UK Defence Solutions Centre, DGP

Friday 18 September

SMES, S&T & APPRENTICES

1000	Transforming the UK Defence Support Chain Andrew Cannon-Brookes , Director Support Enablers Operating Centre, Ministry of Defence UK
1030	Supplier Performance Management and the State of the Global Supply Chain Richard Dickson , Business Director, Verify Europe
1100	SME Supplying to the First Tier Suppliers: F-35 Simulation and Training Ron Stiles , Business Manager, Stirling Dynamics
1130	DSEI Rising Stars Reception Held in East Theatre The Rising Stars Reception offers great networking and learning opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.





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DSEI's location at ExCeL London gives visitors a chance to see exhibitors in the halls and demonstrations on the water.

DSEI is recognised by defence procurement agencies around the world as a key opportunity to evaluate the full spectrum of maritime defence and security products, technologies and equipment. DSEI 2015 will encompass an inclusive showcase of prime contractors and smaller technology providers, covering every aspect from the latest ships and craft design to advanced new systems for surveillance, communication, weapons, sensors and navigation.

Following on from the strong showing at DSEI 2013, this year's maritime element will include a record number of visiting ships showcasing a greater range of capabilities. On specially conducted tours, key industry representatives will be able to see the latest developments in naval ship design and equipment in its natural environment, demonstrated by experienced members of the crew.

The dock adjacent to ExCeL London provides the stage for DSEI's extensive waterborne programme, encompassing current and future threats to maritime security and naval warfare. There will be around a dozen vessels undertaking demonstrations, likely to include high-speed craft for tackling piracy and terrorist threats, unmanned underwater vehicles and much more.

The Naval Theatre remains the main meeting point for knowledge sharing and networking directly on the exhibition floor. The seminar programme across the four days will be led by naval staff, prime contractors and SMEs to provide visitors with the opportunity to listen to the full spectrum of issues.

Key exhibitors in the Naval Zone at DSEI 2015 include MST, Startpoint (UK Maritime Mission Systems), Griffon, Vitavox, Analox, Roodberg Trailer, Royal Navy and Cammell Laird. Exhibitors on display outside include Teledyne Marine Systems, C-Truk, James Fisher Defence, ThyssenKrupp, Navantia, Lurssen, Wartsila and Drumgrange, and many more.

Confirmed Maritime Exhibitors include:

- | | |
|---|--|
| Analox Military Systems Ltd | Roodberg Trailer |
| Cammell Laird Ship Repairers & Shipbuilders | Royal Navy |
| Colfax Fluid Handling | SAPA Extrusion |
| C-Truk | Scot Seats Marine |
| Delta Power Group | Seatronics |
| Drumgrange | Shockwave Seats |
| Griffon Hoverwork | SOS Medical Group |
| Hydrasearch | Startpoint (UK Maritime Mission Systems) |
| James Fisher Defence | Stirling Dynamics |
| Juliet Marine Systems, Inc. | SubSea Craft |
| LRAD Corporation | Teledyne Marine Systems |
| Lurssen | ThyssenKrupp |
| Marine Specialised Technology | UK Maritime Mission Systems |
| Navantia | Versadock International |
| Paradigm SRP | Vestdavit AS |
| | Vitavox |
| | Wartsila |

“ This year's maritime element will include a record number of visiting warships ”

Ships confirmed so far include a Type 23 frigate, a minehunter and an offshore patrol vessel from the Royal Navy, a K130 class corvette from the German Navy, and a brand new offshore patrol vessel from the Belgian Ready Duty Ship Programme. The Indian Navy is planning to send a frigate that is part of an Indian squadron visiting Europe.



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- IN SERVICE SUPPORT & OBSOLESCENCE MANAGEMENT
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NAVAL THEATRE SEMINAR AND BRIEFING PROGRAMME

Tuesday 15 September

MARITIME DEVELOP

1000	Forging the Future Navy Rear Admiral James Morse, Assistant Chief of the Naval Staff (Capability), Royal Navy
1030	Developing the Post-Levene Royal Navy Rear Admiral Malcolm Cree, Chief of Staff (Integrated Change Programme), Royal Navy
1100	Royal Navy Presentation Team: Outlining the Enduring Relevance of a Modern Naval Service Commander Richard Moss, Commanding Officer Lieutenant Alexandra Head, Events Co-ordinator
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of Staff of the Royal Navy
1200	Waterborne Demo
1230	KEYNOTE ADDRESS Held in West Theatre Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence
1300	Maritime Innovation: From S&T to Ships at Sea Rear Admiral James Morse, Assistant Chief of the Naval Staff (Capability), Royal Navy Rear Admiral Mathias Winter USN, Chief of Naval Research for the US Navy Richard Brooks, Delivery Director at the UK Defence Science and Technology Laboratory
1400	Ghost: A New Concept in High Performance Patrol Vessels Joseph Curcio, VP of R&D, Juliet Marine Systems Inc.
1430	Australia's Future Submarine Programme David Gould, Consultant and formerly General Manager Submarines, DOD Australia
1500	Australia's Anti-Ship Missile Defence Captain Warren Bairstow, Royal Australian Navy
1530	Waterborne Demo

Wednesday 16 September

MARITIME DELIVER

1000	Role of an SRO and the T26 Programme Rear Admiral Alex Burton, Assistant Chief of the Naval Staff (Ships), Royal Navy
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP, Secretary of State for Defence UK
1100	Delivering the Type T26 Programme Commodore Paul Methven, DE&S Ships Acquisition, Ministry of Defence UK
1130	KEYNOTE ADDRESS Held in East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen, Chief of the General Staff of the British Army
1200	Waterborne Demo
1230	Carrier Strike Rear Admiral Keith Blount, Assistant Chief of the Naval Staff, (Aviation, Amphibious Capability & Carriers), Royal Navy
1300	Continuous Amphibious Readiness - Guarding Against an Uncertain Future Major General Martin Smith, Commandant General Royal Marines
1330	KEYNOTE ADDRESS Held in Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen, Commander, Joint Forces Command UK
1400	Integrity Assurance for Naval Platforms Jim Gorton, Lead Specialist, Naval Ships, Marine Business Development and Innovation, Lloyds Register
1430	Maritime Autonomous Systems Commander Steve Prest, Fleet Robotics Officer, Royal Navy
1500	Centre for Maritime Intelligent Systems (CMIS) Paul Winstanley, UK Defence Solutions Centre, DGP
1530	Waterborne Demo
1630	Royal Navy Presentation Team: Outlining the Enduring Relevance of a Modern Naval Service Commander Richard Moss, Commanding Officer Lieutenant Alexandra Head, Events Co-ordinator

NAVAL THEATRE SEMINAR AND BRIEFING PROGRAMME

Thursday 17 September

MARITIME SUPPORT

1000	Sustaining the Submarine Enterprise Rear Admiral John Weale , Assistant Chief of the Naval Staff (Submarines), Royal Navy
1030	Challenges of Equipment Support Rear Admiral Richard Stokes , Assistant Chief of the Naval Staff (Support), Royal Navy
1100	Royal Navy Presentation Team: Outlining the Enduring Relevance of a Modern Naval Service Commander Richard Moss , Commanding Officer Lieutenant Alexandra Head , Events Co-ordinator
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force
1200	Waterborne Demo
1230	Strategic Rebalance? Global Security Shifts & the Shape of Naval Force Structures Dr Lee Willett , Editor, IHS Jane's Navy International
1300	Cooperation and Integration of Civil-Military Maritime Patrol (CMMP) Components: Scalability and Value for West African Countries
1400	Royal Navy Presentation Team: Outlining the Enduring Relevance of a Modern Naval Service Commander Richard Moss , Commanding Officer Lieutenant Alexandra Head , Events Co-ordinator
1430	Delivering Future Task Group Support Andy Kimber , BMT Group Rob Steel , BMT Group
1500	Theatre Maritime Sustainment Captain Max Rance , NAVY LOG INFRA-STRAT CAP DACOS, Royal Navy
1530	Waterborne Demo

Friday 18 September

SMES, S&T & APPRENTICES

1000	Innovation in Training Captain Jerry Pett , Deputy Assistant Chief of Staff, Maritime Training Acquisition, Navy HQ, Royal Navy
1030	Royal Navy Presentation Team: Outlining the Enduring Relevance of a Modern Naval Service Commander Richard Moss , Commanding Officer Lieutenant Alexandra Head , Events Co-ordinator
1130	Waterborne Demo
1130 - 1330	DSEI Rising Stars Reception Held in East Theatre The Rising Stars Reception offers great networking and learning opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.
1400	Waterborne Demo

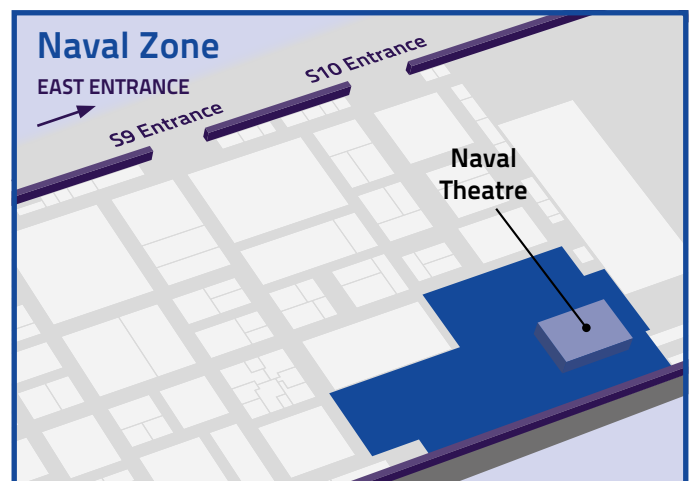


Tuesday 15 September

Building the Supply Chain

A new initiative to help prime contractors and SMEs meet each other at DSEI.

Opportunities to engage with key industry personnel in prime contractor organisations are one of the most valuable interactions a supplier can have. Therefore, at DSEI 2015 the seminar theatres will include an afternoon session called 'Building the Supply Chain', which aims to provide support to SMEs to help them meet with key prime contacts. With a series of presentations followed by networking drinks, the session will give SMEs and primes the chance to discuss collaborative opportunities within the supply chain.





Enabling Battlefield UAV SWaP-C Reduction: Ground Systems ↔ C4ISR ↔ Tactical Airborne ↔ Airborne Command

K&L Microwave

Ultra Miniature UB Series Lumped Element Filters:

K&L Microwave introduces their new UB Series of ultra-miniature lumped element filters providing reduced size and weight while affording ultimate flexibility. Bandpass, lowpass, highpass and bandstop filters are available within the frequency range of 300 to 3000 MHz in extremely small size, surface mount packages. UB Series offers power handling of 1 Watt CW with available bandwidths (for bandpass structures) of 5% to 50% of center frequency. Typical size: 0.45" to 0.65"L x 0.25"W x 0.14"H.



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Dow-Key Microwave Superior Lightweight Waveguide Switches:

Dow-Key Microwave has been manufacturing switches for 70 years; supplying to military, commercial and space industries. With vast expertise, Lightweight Waveguide Switches have been accurately and carefully engineered for both ground based and airborne applications, where size and weight are critical. The lightweight series offers latching WR28 to WR112 transfer waveguides weighing only 300 grams (500 grams for the WR112) making it over 50% lighter and a smaller footprint than previous models. It is designed with a minimum life of 200,000 cycles and can operate in extreme environments with temperatures ranging from -54°C to +85°C (-65.2°F to +185°F). It is offered with 28V operating voltage with transient suppression diodes and options between cover or choke flange.

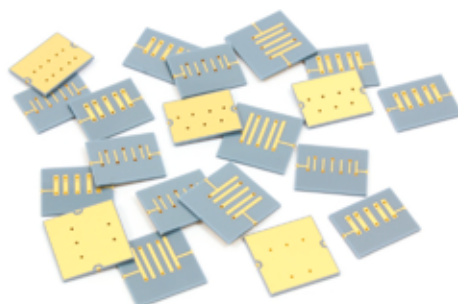


www.DOWKEY.com

BSC

Small, Lightweight Thin Film Filters:

UAV's require lightweight, small footprint solutions. To that end, BSC are using unique high K ceramic substrates that enable these custom filters to be realized many times smaller than traditional ceramic resonator or air dielectric based structures and with far improved temperature stability. Thin film structures exhibit SAW style miniaturization operating to 18 GHz with much greater bandwidths. High resolution 3D EM modeling combined with accurate substrate characterization and tight control of the manufacturing process ensure high levels of repeatability without any requirement to tune the devices. High temperature stability and extremely robust structural integrity make these devices ideal for the demanding environment seen in UAV applications.



www.BSCFILTERS.com

Pole/Zero

Powerful Cosite Solutions for UAV Applications:

Pole/Zero's newly redesigned ERF-5W™ filters provide significant SWaP-C reduction while maintaining 5W average in-band power handling and covering the entire military tactical radio tuning range of 30-520 MHz. ERF-5W™ filters are available in both single and dual channel configurations.

Pole/Zero fits its powerful cosite solutions into the palm of your hand. The ICE1006 provides 5-10 Watts of filtered Tx output power from 30-512 MHz for frequency hopping applications. The unit also features radio controlled tuning and Rx low noise amplification in a form factor under 8 ounces – perfect for UAVs.



www.POLEZERO.com

Meeting the demands of an evolving world

The Security & Special Forces Zone continues to grow in size and importance, reflecting technological and strategic advances.

The Security & Special Forces Zone has more than doubled in size compared to 2013, and this year it is located at the centre of the hall, underlining its increasing importance for DSEI and its status as the 'fourth pillar' of the event.

A record number of first-time exhibitors are included in an impressive list of companies who will showcase their latest equipment and technology, alongside a range of prime contractors. The products and services will range from security and special forces training, tactical equipment, perimeter security, covert & overt surveillance, camera equipment and personal protective equipment.

“Addressing all the key technological developments and challenges within the security and special forces sectors”

This year, the seminar programme will address all the key technological developments and challenges within the security sector including games science; night vision; fibre-acoustic sensing; and communication attacks. Other areas of discussion will include system advancements given the increasing movement towards interoperability, and the increased co-operation between large security companies and defence primes.

In addition, future security procurement requirements, particularly in light of the shift from long-term to short-term interventions, will also be under discussion by senior military personnel and special civilian forces. Leading defence companies will present their latest innovations and technologies as a response to these challenges.

One of the hottest topics in the industry continues to be cyber security, and this will be reflected in the Security & Special Forces Theatre and the Cyber Zone. Content will include the latest on cyber defence strategies, the most recent forms of attack and future threats, enabling access to the latest information, and recovering from cyber attacks. The Cyber Zone itself will contain an array of innovative and ground breaking companies.

The Security & Special Forces Zone is an essential visit for cyber warfare units, homeland security personnel, paramilitary, and visitors from police and gendarmerie units.

Confirmed Security & Special Forces Exhibitors include:

- Aglaya
- Armour Comms
- Barret Communications
- BeaverFit
- Bergans
- Canon
- Ceia
- DeTect
- Garlita
- International Armored Group
- Nine 23
- The Hacking Team
- Vislink



PROSpike The first efficient and safe vehicle stop system.

PROCentrum Equipment designed a new innovative mechanical spike system (police stinger) that stands out from competitors through focus on safety and efficiency.

Visit PROCentrum Equipment at DSEI booth number N7-460

Our Spike system shows its value in various tactical applications such as:

- Vehicle check points,
- Road blocks,
- Forced stop of suspect vehicles,
- Border control.

Forced vehicle stop

The remote control enables the operator to use the spike strip without putting himself in harm's way. By creating a safe distance between the suspect vehicle, the operator eliminates the chance for the suspect to target the operator and secure a clear path.

Check points / border control

By adding distant operating capabilities, the operator can place himself in a protected position while maintaining full control over the situation.

The PROSpike offers the following unique advantages:

- Easy to use instructions,
- Fast deployment/retraction,
- Reusable design,
- Ever ready charging system,
- Up to 100 m operating reach,
- Standard length spike strip 5.5 meters
- Remote control operational up to 100 meters distance
- Easy replacement of used hollow spikes makes the system quickly reusable
- Includes standard mini compressor that can be connected to the cigarette socket
- LED indicator lights and pressure gauge provide a clear picture of operational status also by night time
- Cover on front and shielded main switch secure safe environment for operator and bystanders
- Maintenance free
- Standard colours 'traffic yellow', or tactical black
- TÜV and CE certified
- Warranty under normal use 24 months

For further information please contact us via info@prospike.eu or visit our website at www.prospike.eu to find your local distributor.

Retail price € 2.200 ex VAT and shipment.

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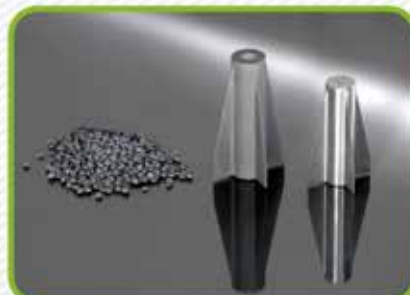
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SECURITY & SPECIAL FORCES SEMINAR PROGRAMME

Tuesday 15 September

INFORMATION SUPERIORITY

1000	The UK Government Approach to Cyber Security UK Government Representative
1030	Threat Intelligence: Setting the Cyber Scene Adrian Nish , Head of Cyber Threat Intelligence, BAE Systems
1100	Know What You Are Protecting Pamela Warren , Director, Government & Defence Initiatives, Palo Alto Networks
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS , First Sea Lord and Chief of Staff of the Royal Navy
1200	Security for Manufacturing Paul Hingley , Business Manager - CMR & SA, Siemens
1230	KEYNOTE ADDRESS Held in the West Theatre Philip Dunne , Minister of State for Defence Procurement, Ministry of Defence
1300	L-3 TRL Technology Thought Leadership Panel: Cyber Defence at War Moderator: Steve Mason , Chief Technology Officer, L-3 TRL Technology Panellists: John Rigby , Director IMS Cyber Security, AlixPartners LLP Professor Roy Isbell , International Advisor on Cyber, and Visiting Professor and Founder of the De Montfort University Cyber Security Centre Dave Woodfine , Cyber Security Consultant, Partner and Director of Cyber Security Associates LLP, and MD of Cyindus Ltd.
1400	techUK Cyber Panel Discussion: Collaborate to Protect: The Future of UK Cryptography and Encryption Panellists: Henrik Kiertzner , techUK Defence & Security Board Member John Davies , techUK Cyber Security Group Executive Committee Member Nicky Tabram , Information Assurance, Integrated Systems Julius Caesar , CEO, SPQR Consulting
1500	Defense Computing Meets the Internet of Things Vincent Chuffart , Product Manager, Avionics Transportation Defense, Kontron AG
1530	Panel Discussion Organised By: Cyber Security Export Team, UK Trade & Investment Defence & Security Organisation (UKTI DSO) Tackling Cyber in the Military - Collaboration with Industry for Effective Security Panellists: Representatives from Government and Industry

Wednesday 16 September

WARFARE IN THE INFORMATION AGE

1000	Online Targeting: Cyber Threats from the Middle East Terry Pattar , Senior Consultant, IHS Aerospace, Defence and Security Consulting
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP , Secretary of State for Defence
1130	KEYNOTE ADDRESS Held in the East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen , Chief of the General Staff of the British Army
1200	Northrop Grumman Thought Leadership Panel Cyber-The Importance of Resilience to the Battle Space Moderator: Vern Boyle , Director, Technology, Northrop Grumman Information Systems (IS) Panelist: Gavin Johnson , Senior Cyber Technologist, Northrop Grumman (IS)
1300	Joint Forces Command Session: Warfare in the Information Age Introduction Philip Dunne , Minister of State for Defence Procurement, Ministry of Defence
1330	KEYNOTE ADDRESS: Warfare in the Information Age Held in the Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen , Commander, Joint Forces Command UK
1400	Joint Operations In The Information Age Air Vice-Marshal Stuart Atha , Chief of Staff (Operations)
1430	Understanding In The Information Age Major General James Hockenull , DCIB, Joint Forces Command UK
1500	The Information Age Mike Stone , Chief Digital & Information Officer, Joint Forces Command UK
1530	Foundations of The Joint Force In The Information Age Vice Admiral Duncan L Potts CB , Director General Joint Force Development and Defence Academy
1600	Logistics In The Information Age Major General Angus Fay , Assistant Chief of the Defence Staff (Logistic Operations)



Thursday 17 September

SECURITY, COUNTER-TERRORISM & FORCE PROTECTION

Hosted by Security & Counter Terror Expo (SCTX)

1000	How Government Works with UK Security Sector and Supports Exports Paul Mott , Deputy Director for Security Industry Engagement, Office for Security and Counter Terrorism (OSCT), Home Office Simon Everest , Director Business Strategy & Senior Security Adviser, UK Trade & Investment Defence & Security Organisation (UKTI DSO)	
1100	Title TBC Dr Mark Stroud , Centre for Applied Science & Technology (CAST), Home Office	
1130	KEYNOTE ADDRESS - Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force	
1200	Using Arabic Social Media to Understand Security Challenges Amira Galal , BBC Monitoring Journalist Mohanad Hashim , Media Analyst, BBC	
1230	The Challenges of Home Grown Terrorism and Deradicalization	
1300	Focal Construct Technology Prof. Keith Rogers , Professor of Materials/Medical Science, Forensic Institute, Cranfield University	
1330	Learning Lessons from Afghanistan to Counter the Future Insider Threat Ryan Meeks , Senior Human Factors Engineer, Frazer-Nash Consultancy	
1400	Requirements for Active Shooter Training Andy Patterson , Streit Group FZE	
1430	UK MOD workshop: Generic Base Architecture: At the Heart of Revolutionising Expeditionary Infrastructure Presentations: <ol style="list-style-type: none"> Combing Spaghetti: Rationalising from Many and Disparate to Modular and Scalable Expeditionary Accommodation Colonel Chas Story, Late RE, AD Mil Eng, CD CS, Army HQ, Ministry of Defence UK Whole Force Approach and the Total Support Force Colonel Nigel Allison, Late RLC, AD Log Pol/Plans, Army HQ, Ministry of Defence UK What has Standardisation Ever Done for Us: the Benefits of GBA Matt Whittington MBE, Chief Engineer, Operational Support Programmes Open Forum Individual Sessions between Industry and a MOD Team with Reps from Army HQ (Mil Eng and Log Pol/Plans) and DE&S (OSP) 	

Friday 18 September

SMES, S&T & APPRENTICES

1000	Defence Cyber Protection Partnership: Working Together to Protect the UK Defence Supply Chain Malcolm Carrie , Global Head of Strategy & Architecture, BAE Systems Daniel Selman , Cyber Industry Team Leader, DSAS, ISS, Ministry of Defence
1030	Horizon 2020 - Secure Societies Helen Almey , Horizon 2020 National Contact Point for Secure Societies & support for SME Instrument, Innovate UK
1130	DSEI Rising Stars Reception Held in East Theatre The Rising Stars Reception offers great networking and learning opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.

Security & Counter Terror Expo (SCTX)

19-20 APRIL 2016 | OLYMPIA LONDON

Security & Counter Terror Expo (SCTX, 19-20 April, 2016, Olympia London) is the event for any professional tasked with protecting assets, business, people and nations from terrorism. It brings over 9,000 attendees from across the globe together to see the latest technology, hear about the latest developments, share best practice and ensure that their threat mitigation strategies are effective.

The free-to-attend exhibition features over 300 leading suppliers, showcasing some of the most technologically advanced solutions in preventing terrorism. Running alongside the exhibition are several free-to-attend conferences and seminar areas, focusing on key areas such as the increasing cyber threat, policing and law enforcement, transport and security capabilities. High-level strategic paid-for conferences also sits alongside SCTX, attracting hundreds of senior security, police, government and military professionals. Thought leading speakers present on some of the most pressing issues we are currently facing.

Find out more about Security & Counter Terror Expo at www.counterterrorexp.com.

A new element in tactics and strategy

The Unmanned Zone gives visitors the chance to see the latest innovations in a dedicated feature area.

Given the reluctance of politicians and the public to allow modern conventional militaries to commit 'boots on the ground', coupled with the growing intelligence challenges to current, prevalent threats, unmanned systems play an ever-increasing role in contemporary military tactics and strategy. As a result, the Unmanned Zone at DSEI 2015 has taken on a greater importance, growing significantly from previous events and offering visitors the opportunity to see the latest innovations in a dedicated feature area.

The West Theatre will host a series of presentations across Tuesday and Wednesday dedicated to exploring the latest capabilities, technologies and innovations within the unmanned environment.

There will also be demonstrations of ground-breaking unmanned systems taking place outside on the dock edge across the week.

The Unmanned Zone attracts a great deal of interest from the media and visitors who are able to watch troops react to different threats, using unmanned systems to respond and control the situation, in a unique environment.

“ Unmanned systems play an ever-increasing role in contemporary military tactics and strategy ”

One confirmed event in the West Theatre in the Unmanned Zone is the Centre for Defence Enterprise (CDE) SME Showcase; the CDE is part of the MOD Defence Science and Technology Laboratory (DSTL) which funds innovative research that could lead to a cost-effective capability advantage for UK armed forces and national security. During this session at DSEI, CDE will showcase a selection of the best research ideas it has funded, delivered by small and medium-sized enterprises.

This session will be an opportunity to hear an introduction to the CDE, their competitions and challenges. There will be presentations from around 10 companies demonstrating their innovations – a useful insight into innovative defence research and a chance to find out more about up-and-coming SMEs.

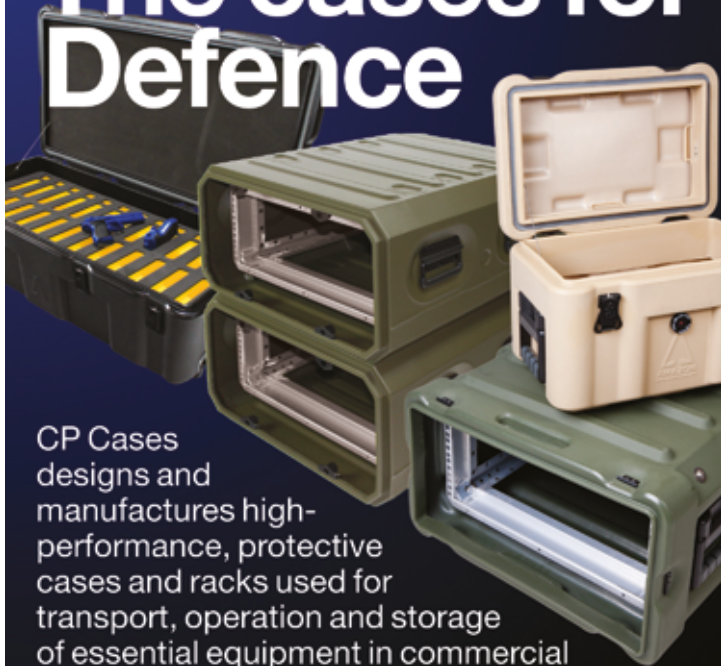
For more information please visit page 58.



Confirmed Unmanned Technology Exhibitors include:

- | | |
|-------------------------|---------------|
| AIE | Linwave |
| Airware | Milrem |
| AUVSI | Northwest UAV |
| B & W | Panvion |
| Cella-Energy | Technology |
| CES | Planet Ocean |
| Cybaero | Proxdynamics |
| DOK-ING | Reamda |
| Elbit | Rotron Power |
| ELI Military Simulation | SAMA |
| ETLG Ltd | Spectracom |
| EW Electronics | Superwinch |
| Galleon EC | Trimble |
| HDT Global | Thales |
| High Eye | Uvision |
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| IEEE | WB Electronic |
| Insitu | Wolfstone |

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WEST THEATRE SEMINAR AND BRIEFING PROGRAMME

Tuesday 15 September

In association with

UNMANNED AIR SYSTEMS



	Chairman: Air Marshal Philip Sturley CB MBE
1000	Challenges Presented by Unmanned Air Systems; A Government Perspective Phil Williams, Risk Assessment and Incident Response Team, Department for Transport
1030	Cross Government RPAS Working Group 1 Paul Cremin, Head of UK Aviation Operational Safety & Emerging Technologies, Department for Transport
1100	UAS Test and Evaluation Procedures - Current Challenges / Future Requirements 1 Peter Downer, Air Strategy, FMC - Weapons, Evaluation & Capability Assurance, UK MOD
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of Staff of the Royal Navy
1200	Hosted by UAS 2015: Regulation Updates for Remotely Piloted Air Systems (RPAS) 2 Major Mark Britton, MAA Reg CAw3 CAM, Military Aviation Authority
1230	KEYNOTE ADDRESS Held in West Theatre Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence
1300	Presentation by Defence Growth Partnership
1330	Hosted by UAS 2015: Next Generation Air Dominance: Unmanned and Beyond Thought Leadership Panel 2 Moderator: Dr Kate Gill, 1st Secretary Defence Science and Technology, British Defence Staff, British Embassy, Washington DC Panellists: Brig Simon Humphrey Capt. Clark Troyer, Commander, Office of Naval Research Global
1430	Current Challenges & Requirements National Offender Management Service
1500	Counter UAV Operations Paul Taylor, Business Development, Enterprise Control Systems Ltd
1530	Northrop Grumman Thought Leadership Panel: Harnessing the Potential of Unmanned Systems Moderator: Mary Petryszyn, Sector Vice President, International, Northrop Grumman Aerospace Systems (AS) Panellists: Scott Winship, Vice President, Program Management, Northrop Grumman Aerospace Systems
1630	GPS Denied UAV Navigation Research: A Vision Based Approach 3 Dr Nabil Aouf, Reader, Head of Unmanned Autonomous Systems Laboratory, Centre for Electronic Warfare, Cranfield Defence and Security

Wednesday 16 September

UNMANNED LAND & MARITIME SYSTEMS

	Chairman: Andrew Drwiega, DefenceWorX Ltd
1000	Embedded Intelligence in Defence Applications
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP, Secretary of State for Defence UK
1100	Wideband Unmanned Operational Dimension Shai Palti, CEO, Commtact Ltd
1130	KEYNOTE ADDRESS Held in East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen, Chief of the General Staff of the British Army
1200	Future Trends in Autonomy Dr Julia C Richardson, Director, Stellar Research Services Ltd
1230	UAV -K-MAX Unmanned Multi-Mission Helicopter Major John Norton, US Marine Corps
1300	Unmanned Aircraft Cargo Operations: Emergency Procedures Professor Antonios Tsourdos, Director of Research, School of Aerospace, Transport and Manufacturing, Cranfield University Julian Hasinksi, Airbus Defence and Space
1330	KEYNOTE ADDRESS Held in Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen, Commander, Joint Forces Command UK
1400	ISTAR - UAS from a Tactical & Capability POV Speaker to be Announced, 1st Brigade
	3 Chairman: Dr Simon Harwood, Director of Defence and Security, Cranfield University
1430	US Navy Unmanned Programmes: Capabilities Now and Looking Forward Michael Sears, Assistant Program Executive Officer Unmanned Aviation and Strike Weapons, International Programs, US Navy
1500	Future Norwegian Unmanned MMCM Concept Morten Nakjem, R&D Program Manager for MCM, FFI (TBC)
1530	Protector®USV - Integrating Combat Systems with Autonomy Noam Brook, Rafael Advanced Defense Systems Ltd
1615	Customer Ready: The UK Defence Growth Partnership One Year On - Open for Business Philip Dunne MP, Minister of State for Defence Procurement, Ministry of Defence, The Rt Hon Anna Soubry MP, Minister for Small Business, Industry and Enterprise, Department for Business, Innovation & Skills Steve Wadey, DGP Co-Chair and CEO, QinetiQ Group Plc

Thursday 17 September

TRAINING & SIMULATION AND
SME INNOVATION

	Chairman: Neil Stewart , Chairman ITEC 2016
1000 4	Hosted by ITEC: Reskilling for the 21st Century: An Enterprise Approach Paul Appelquist , Head of Future Business, Babcock International Group
1030 4	Hosted by ITEC: UK MOD Defence Simulation Centre Corinne Jeffery , Director, UK MOD Defence Simulation Centre
1100 4	Hosted by ITEC: Collective Training: Concepts and Future Challenges Cdr Paul Newall , UK MOD
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force
1200	UK Centre for Defence Enterprise SME Showcase and Networking
1400	Building the Supply Chain Joint Supply Chain Accreditation Register (JOSCAR) - Building an Accredited Supply Chain Tim Martin , Head of Defence, ADS Group Simon Tomlinson , Head of Procurement, QinetiQ Colin Maund , CEO, Heliios Information
1500	Women in Engineering: Defence and Security Chair: Angela Owen , PA Consulting Group Panellists: Colonel Lorna Swinyard , Assitant Director Training Development, Army Headquarters Ms Brooke Hoskins DPhil , Director Applied Intelligence Laboratories Group Captain Mark Hunt , Station Commander RAF Cosford and Commandant Defence School of Aeronautical Engineering

1 West Theatre

In association with **UASCDC**

This year's UAS programme is, once again, being supported by the Defence Unmanned Air Systems Capability Development Centre (UAS CDC). The UAS CDC continues to address emergent issues such as the opportunities afforded by off-the-shelf UAS, through to likely infrastructure and resource requirements for future UAS T&E. The UAS CDC's relationship with industry remains vital and this year's presence seeks to build on the extraordinary engagement in DSEI 2013.

Friday 18 September

SMES, S&T & APPRENTICES

	Chairman: Professor Ian Wallace , Pro-Vice-Chancellor, Cranfield Defence and Security
1000 3	Dual Use Technology Exploitation Chris Owen , Project Executive - Value Chain Competitiveness (VCC), UK Defence Solutions Centre, DGP
1030	Systems Engineering Masters Apprenticeship Programme Charles Critchett , UK Defence Solutions Centre, Defence Growth Partnership
1100 3	Developing Professional Career Paths for Next Generation of Defence Technology Specials Professor Ian Wallace , Pro-Vice-Chancellor, Cranfield Defence and Security
1200	DSEI Rising Stars Reception Held in East Theatre

2 Hosted by UAS 2015

www.uas-event.co.uk

UAS 2015 (1-2 December, Twickenham, UK), now in its fourth edition, will explore the use of autonomous systems within the military domain. UAS 2015 will return to its defence and security roots to address the latest requirements, developments and deployments across the services and security agencies. The programme will expand to embrace land, air and maritime systems, and look at the development of unmanned systems across all three services.

3 West Theatre Academic Partner:

Cranfield University is pleased to be partnering with Clarion Events to help to focus discussions in the Unmanned Seminar programme on the critical issues currently facing the UAS industry, and would welcome opportunities to partner with to find innovative solutions to address emerging challenges.

4 Hosted by ITEC 2016

www.itec.co.uk

ITEC, taking place 17-19 May 2016, is an annual forum for representatives from the military, industry and academia to connect and share knowledge with the international training, education and simulation sectors. Established for over 25 years, ITEC offers a world-class exhibition (free to attend) and conference showcasing the very latest products and services from leading organisations, as well as unique networking opportunities.



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PHILIPS

A revolution in medical care

DSEI presents a dedicated showcase featuring the latest industry innovation, alongside seminar content, for medical personnel within the armed forces.

Since 2001, the level of preventable deaths that occur in modern conflict has decreased significantly. The introduction of focused combat training courses and medical combat innovation has led to an ever-improving casualty survival rate. The important developments that continue to take place within military healthcare will be highlighted at DSEI 2015.

The Medical Innovation Zone will provide a forum of presentations, demonstrations and debates that focus on the advances in clinical care from the point of injury and illness through the entire treatment to rehabilitation.

The Zone will include capability demonstrations that focus on the advances in concepts, organisation and technology in military medicine that have increased survivability from combat injury. This will cover aspects from first aid, through advanced care on the helicopter to surgery

in the field hospital. There will also be an opportunity to discuss how advances in trauma care can be transferred into civilian healthcare systems, including humanitarian and disaster relief.

There will also be a forum for networking and debating with international medical leaders and industry experts who have developed advances in combat casualty care and highly infectious disease management. In light of the recent Ebola outbreak in West Africa, there will be timely demonstrations for managing personal safety while treating the critically ill within an Ebola virus treatment unit.

The Medical Innovation Theatre will feature an exclusive panel, including individual sessions from domestic and international military, medics and industry to discuss the latest best practices and innovations. One area of debate will be how the military can work alongside civilian organisations in the short and long term following a disaster being declared; this includes lines of communication, equipment and services required dependent on circumstances. The Theatre's programme will contain analysis and discussions from both military and industry.

Confirmed Medical Innovation Exhibitors include:

- | | |
|------------------|------------|
| Blatchford | MMP |
| Medical Services | Philips |
| Celox | Prometheus |
| Deltacore | Weinmann |
| Exmed | |
| Jarvis | |
| Manufacturing | |
| Laerdal | |



MEDICAL INNOVATION SEMINAR AND BRIEFING PROGRAMME

Tuesday 15 September

Wednesday 16 September

PRE-HOSPITAL CARE & DAMAGE CONTROL

RESUSCITATION & TREATMENT

1000	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1100	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)
1130	KEYNOTE ADDRESS Held in Naval Theatre Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of Staff of the Royal Navy
1200	Military High Altitude Capability & Research Surgeon Commander Ade Mellor, Consultant Anaesthetist, Defence Medical Services
1230	KEYNOTE ADDRESS Held in East Theatre Philip Dunne, Minister of State for Defence Procurement, Ministry of Defence
1300	Fertility Preservation Dr Jackson Kirkman Brown MBE, Birmingham Women's Hospital
1400	Pre-hospital Care/Emergency Medicine Anthony Hudson, Consultant Emergency Physician, NHS UK
1430	Military Wound Ballistics at Cranfield University  Debra Carr, Senior Lecturer in Impact & Armour Ian Horsfall, Professor of Armour Systems, Centre for Defence Engineering, Cranfield University
1530	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1630	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)

1000	Virtual Reality Dr Charlotte Small
1030	MINISTERIAL KEYNOTE ADDRESS Held in East Theatre The Rt Hon Michael Fallon MP, Secretary of State for Defence
1100	Mental Health and Healthcare in the Armed Forces Surgeon Captain John Sharpley, Royal Navy, Defence Consultant Advisor in Psychiatry
1130	KEYNOTE ADDRESS Held in East Theatre General Sir Nicholas Carter KCB CBE DSO ADC Gen, Chief of the General Staff of the British Army
1200	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1300	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)
1330	KEYNOTE ADDRESS: Warfare in The Information Age Held in Security & Special Forces Theatre General Sir Richard Barrons KCB CBE ADC Gen, Commander, Joint Forces Command UK
1400	Military High Altitude Capability & Research Surgeon Commander Ade Mellor, Consultant Anaesthetist, Defence Medical Services
1430	Transfusion Matters Col Heidi Doughty, Consultant Hematologist, NHS Birmingham
1530	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1630	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)

Thursday 17 September

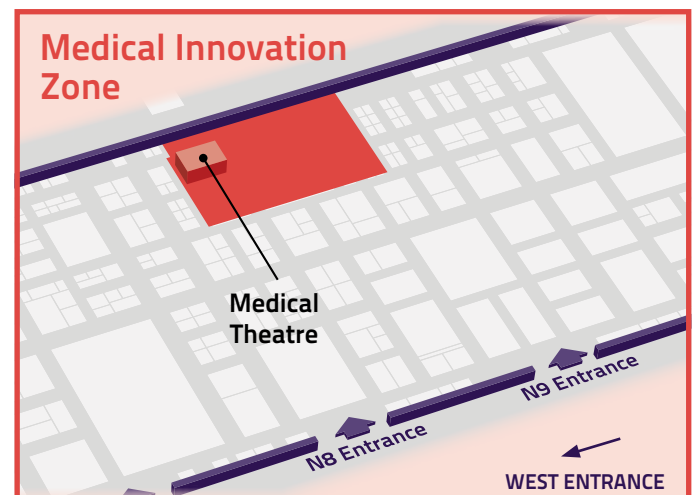
REHABILITATION, RESEARCH & INNOVATION

1000	CBRN Medical Training Surgeon Commander Steven Bland , Consultant in Emergency Medicine, Defence Specialist Advisor in CBRN Medicine & Medical Director, Defence CBRN Centre
1030	Mental Health and Healthcare in the Armed Forces Surgeon Captain John Sharpley , Royal Navy, Defence Consultant Advisor in Psychiatry
1100	Medical Research Dr Hannah Jarvis , Defence Medical Rehabilitation Centre (DMRC) Headley Court
1130	KEYNOTE ADDRESS Held in Air Theatre Air Chief Marshal Sir Andrew Pulford KCB CBE ADC , Chief of the Air Staff of the Royal Air Force
1200	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1300	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)
1330	Military High Altitude Capability & Research Surgeon Commander Ade Mellor , Consultant Anaesthetist, Defence Medical Services
1400	UNIFY: A Military Strategy in order to confront Fracture Non-Union Surgeon Captain Sarah Stapely , Defence Professor of Trauma and Orthopaedics, Defence Medical Services
1430	Lightweight Battlefield Fragment Protection Technology Katrin Freier , Bluecher
1500	Open Innovation - A Snapshot of Healthcare Solutions of the Future Philips
1530	MEDICAL DEMONSTRATION 1. Point of Wounding 2. Rehabilitation & Mental Health
1630	MEDICAL DEMONSTRATION Ebola Virus Disease Treatment Unit (EVDTU)

Friday 18 September

FUTURE OPERATIONS

1030	Integration of the TA into Active Medical Assignments Major Theresa Lewis , Infection Control Nurse, 335 Medical Evacuation Regiment
1130	DSEI Rising Stars Reception Held in East Theatre The Rising Stars Reception offers great networking and learning opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.



Medical Innovation Zone

demonstrations

The activity programme in this Zone features key capability demonstrations and industry stage presentations.

The Medical Innovation Zone at DSEI demonstrates the latest advances in patient care from the point of injury or illness through the entire treatment pathway to rehabilitation. In the Zone there will be thematic areas that will illustrate this pathway through the different stages of patient care for onlookers to experience.

Battlefield Advanced Trauma Life Support (BATLS)

The appropriate response in the 'platinum' 10 minutes following a trauma event has been shown to dramatically improve/increase survivability. Instructors from the Defence College of Healthcare Education and Training (DCHET) will demonstrate how military medics are trained to provide the care in the most demanding of circumstances.

Resuscitation

The Medical Innovation Zone Resuscitation Demonstration Area will be coordinated by an Emergency Medicine consultant and staffed by a trauma team that will demonstrate working in a lightweight and mobile configuration.

Medical Emergency Response Team (MERT)

Significant medical advances were made in the provision of pre-hospital emergency care during the Afghanistan era. The Medical Emergency Response Team provides a consultant-led emergency medicine response for seriously injured patients, during transit of the patient to a field hospital. The MERT stand will demonstrate how they have developed into a world-class emergency medicine response to injured personnel on operations, by projecting SMEs forward to the point of wounding.

Military Mental Health

There will be poster displays to highlight 100 years of military mental healthcare, a decade of military mental health research (i.e. the advances during Iraq and Afghanistan conflicts and the through-life cycle of military mental health). In addition the stand will demonstrate innovative mental health support with the demonstration of the 'Big White Wall' and 'SilverCloud' online support systems, plus a demonstration of TRiM - Trauma Risk Management. There will be video material of mental health promotion in the Armed Forces and a demonstration of Trauma Focused Psychotherapy with an Eye Movement Desensitization and Reprocessing (EMDR) light box on hand for practitioners to explain and demonstrate its functionality.

Lightweight and Manoeuvrable Equipment

Integral to any field hospital are the Radiography and Pathology departments. Vital equipment will be on display, in a lightweight and extremely portable format.

Radiography: There will be a demonstration of the portable lightweight DR Go Digital Radiography equipment which produces high quality direct digital radiology imaging almost anywhere. Its compact lightweight generator and rugged case can be packed in to a Bergen, allowing rapid imaging to take place away from medical facilities, improving the quality of care within emergency medicine. The system will be set up on a mobile lightweight stand for ease of use.

Biomedical Scientist (BMS): 'BMS and a Bergen' is an innovative approach taking the diagnostic expertise to the casualty as far forward on the battlefield as possible. Utilising compact, portable, and robust equipment packaged together in a one-man portable packing solution carried by the BMS, it provides flexible and adaptable diagnostic support wherever required. This concept delivers both the equipment and skilled individual closer to the casualty, allowing more effective diagnosis and management enabling reduced casualty evacuation, prolonged field care and improved medical force protection.



Rehabilitation

The key objective is to demonstrate the full potential of Role 4 Rehabilitation in a complex trauma theme, and highlight lessons learnt from recent operational experience, up-to-date and evidence-based clinical care and new research available supporting the function of complex trauma rehabilitation.

High Altitude Military Medicine Research Stand

Mountainous terrain provides sanctuary for hostile forces, particularly terrorist organisations. Many military operations require the rapid deployment of troops to these mountainous regions. However, rapid ascent of un-acclimatized troops to high (>1200m) mountainous environments causes debilitating effects on fighting capabilities (physical and cognitive work performance) and force health status (altitude sickness). The high altitude stand will showcase current research in this area.

Research

The DMS Research Strategy underpins research in the Defence Medical Services (DMS). Examples of current research will be on display in poster format.

Ebola Virus Disease Treatment Unit

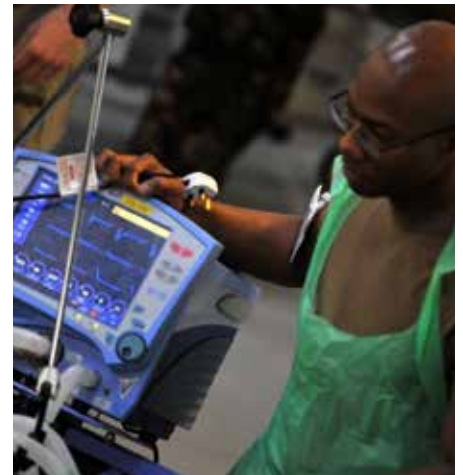
There will be demonstrations of the military support to the Ebola Virus Disease outbreak in West Africa, including a particular focus on the work of the Army Medical Services Training Centre, who will demonstrate how they trained their military and non-military staff in preparation for deployment.

Chemical, Biological, Radiological and Nuclear Medicine (CBRN)

There will be a demonstration of the medical treatment responses to a number of chemical, biological, radiological and nuclear threats.

Surgical Simulation

There will be a demonstration of the use of a synthetic torso, which is used by Defence Medical Services (DMS) surgeons for training. The simulated torso provides the entire operating theatre team with a realistic medium on which to train.



Barrett leading the field in communication

Barrett Communications have a strong background in the provision of HF and VHF radio communications to both military and civilian markets and have leveraged their knowledge of these markets to develop the Rapid Field Deployment System (RFDS) which they are showcasing at stand N7-160.

The RFDS, which has both HF and VHF variants, provides a complete turn-key communications system in a single easily transportable case, including radios, various power options, cabling, lighting and external connections. It is designed to be simple to set up and to operate: "All you have to do is connect it to an antenna, switch it on and it works", says Cameron Berg, Barrett Marketing Manager. It is based on radios from the family of Barrett transceivers which are field proven in over 150 countries, on every continent and in all environments, and includes the Barrett Crossgate which enables connection between HF and VHF networks.

"All you have to do is connect it to an antenna, switch it on and it works"

Linking HF and VHF RFDS together will provide a local VHF communications network with long-haul reachback over HF, either to a fixed infrastructure or to other RFDS-based networks.

The RFDS is an ideal solution where speed of set-up and ease of operation are paramount. Some possible typical scenarios include:

- The initial deployment of a military force into an operations area. Manpower is likely to be limited and transport and facilities at a premium, but reliable communications both locally and back to the main body will be vital for the advance party. This might include a tactical headquarters to support the commander, whose ability to exercise effective command and control at an early stage could influence the entire campaign. The RFDS will enable this.
- The move of a headquarters whilst maintaining command and control. This requires a comprehensive communications capability that can be easily deployed with the 'step up', set up quickly in the new location, and support the advance staff while the main headquarters closes up. With the RFDS the 'step up' HQ can be up and running within minutes of arrival at the new location.
- In disaster relief operations speed is of the essence if aid and succour is to be provided to the maximum number of people when they may have lost everything. Without coordination, humanitarian relief operations will be far less effective, when all the local communications architecture may have been destroyed. The RFDS can provide a self-contained communications system with a small logistical footprint, so resources which could otherwise be used to support the relief operation are not expended on command and control.

The Barrett display at DSEI will include their full range of radios and ancillary equipment.



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Solutions



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Photo: Gregor/NSH/M3D

Additional technology focused zones to showcase the solutions that matter

With technology focused zones specifically created to direct visitors and delegations to the solutions that matter to them the most, DSEI is increasingly being seen as the place to do business in the global defence and security market.

Motorsport to Defence Showcase Area

The MIA's Motorsport to Defence (M2D) Initiative was created in 2007, by Rt Hon Lord Astor of Haver and Rt Hon Lord Drayson of Kensington to help UK motorsport companies engage with the defence industry to maximise the business opportunities which exist between them.

The MIA has successfully worked with defence companies and trade shows to find ways of introducing its members and the motorsport industry at large to this sector. Showcases have taken place at Thales, Lockheed Martin, General Dynamics, Abbey Wood, BAE Systems, Bovington and MIRA.

February 2014 saw the MIA appoint Nick Wills OBE as Defence Development Director. Awarded an OBE in 2005 for services to the army, Nick spent the last 10 years of his 30-year army career focusing on the process and delivery of research and development, including trialling and acquiring land-based equipment and vehicles.

Interaction between the two industries has been mutually beneficial, enabling the defence sector to utilise a separate set of expertise to find fast solutions to its engineering problems, whilst also granting Motorsport Valley® seasonally-variable revenue streams.

“UK motorsport companies engage with the defence industry to maximise the business opportunities”





The Tri-Service Zone

The Tri-Service Zone is designed to provide defence and security companies with a platform to display their products and capabilities to Air, Land, Naval and Security customers. The Zone delivers an opportunity to present a broad range of solutions and hosts some of the most innovative technologies and creative concepts within the DSEI event.

Exhibitors within the Tri-Service Zone include VIASAT, MKU, Sioen, Invisio Communications and Resource Group.



The Communications Zone

There can be no doubt that a robust Command, Control, Communications, Computers and Intelligence (C4I) system is the backbone of any defence and security operation. Classically the speed and reliability of communications has dictated the tactical, operational and strategic tempo, but over the last twenty years, as we have entered the age of networked operations, the speed, reliability, and capacity of the network has become key. Even as the importance of the network has increased, the relevance of communications bearers has not

diminished. Reliability, resilience, and redundancy are especially vital today as technological advances give advantage to attackers and defenders.

DSEI recognises that the Command, Control, Communications and Computer (C4) aspects of this dimension or our defence and security architecture has both an equipment and service provision element. Companies operating in this arena offer unique game changing technologies and innovations. The number of established and new providers of equipment and services across the spectrum of C4 activity is increasing, and to promote interaction between this key aspect of the defence business and its customer base, DSEI 2015 is launching a new Communications Zone. The Zone will bring together all those engaged in this critical, exciting, and fast paced aspect of defence technology.

The Communications Zone encompasses all aspects of the defence and security environment and features companies such as Klas Telecom, Paradigm Communications Systems, Avanti Communications Group, Speakersbus Technology Limited, Brugg Cables, Fern Communication, Kinetic Six, and Karl Storz Industrial Endoscopy.



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N5-276

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Specialised Workshops and Showcases for 2015

Running alongside the Seminar programmes are a series of specialised Workshops and Showcases, offering additional opportunities for further learning, discussion and debate.

The Centre for Defence Enterprise SME Showcase will highlight a selection of the best research ideas it has funded, with brief introductions from some of the successful SMEs, as well as the opportunity to learn more about CDE competitions.

Gain powerful insight into the training and education industry in the T&EA(L) workshop, with presentations to discuss valuable

improvements to training experience and operational performance, and how to implement these new strategies effectively.

Also, taking place in the East Theatre, the Rising Stars Reception will be held for the second time after its great success at DSEI 2013, uniting industry leaders with the younger generation who are hoping to further their careers in the industry.

Centre for Defence Enterprise SME Showcase

Date: **Thursday 17 September 2015**

Time: **1200 - 1400**

Location: **West Theatre, Unmanned Zone**

The Centre for Defence Enterprise (CDE), part of the MOD's Defence Science and Technology Laboratory (Dstl), funds innovative research that could lead to a cost-effective capability advantage for UK armed forces and national security.

During this session at DSEI, CDE will showcase a selection of the best research ideas it has funded, delivered by small and medium-sized enterprises (SMEs) who have been successful in CDE competitions.

The two hour session will include the chance to hear an introduction to CDE opportunities, before hearing first hand from 10 SMEs, who will briefly introduce their companies and their innovations. The presentations will be followed by further networking opportunities.

You will be able to learn more about CDE competitions as well as some of the innovative research ideas that have received MOD funding. Recent CDE themed competitions have covered topics ranging from cyber defence, medical sciences and information processing, to space-based capabilities, highly robust ground platforms and additive manufacturing, plus many more. There is also a CDE enduring challenge competition, which is open to all innovations that could have a big impact on defence.

The session will be very useful for those with an interest in innovative defence research and an interest in learning more about up-and-coming SMEs, who have been funded as part of the CDE supply chain.



T&EA(L) Workshop

Date: **Thursday 17 September 2015**

Time: **1430 - 1630**

Location: **North Gallery**

Introduction

Simon Pearce, Project Leader, Training & Simulation Systems Programme

The Training & Education Architecture (Land) (T&EA(L)) is focused on the user's experience of training and education and consequent benefits to operational performance. T&EA(L) will achieve this by improving the delivery and sustainment of current and future regular and reserve force Training and Education (T&E) capabilities. Your views are therefore vital to T&EA(L)'s development and this event at DSEI will present tangible evidence of how the benefits can be secured.

“ This event at DSEI will present tangible evidence of how the benefits can be secured ”

The Problem

Major Jez Giles, Senior Requirements Manager, Training & Simulation Systems Programme

There are more than 100 separate training systems in service across the Land Domain (excluding education systems). They are stove-piped in the way they were acquired and developed throughout life.

Although these systems meet a wide array of different but often closely related T&E needs, they adopt diverse and predominantly incompatible business and technical approaches for their delivery, as well as separate support and commercial contracts.

Systems inevitably require modifications and upgrades throughout life, generating significant complexity.

The T&EA(L) Solution

T&EA(L) will improve the training experience through greater integration, common approaches, faster and more frequent updates, all leading to improved operational performance while reducing T&E acquisition and through life support costs. T&EA(L) is aligned to the aims and structures of the wider Land Open Systems Architecture (LOSA), the Defence Training and Education Capability (DTEC) rules and is governed by the Land Technical Authority (LTA).

QinetiQ

- Keynote Address

Lockheed Martin

- An Industry Perspective (1)

Thales

- An Industry Perspective (2)

Prolinx

- An Industry Perspective (3)

BAE Systems

- An industry perspective (4)

Vodafone UK

- Plenary, Discussion and Questions

Rising Stars Reception 2015

Date: **Friday 18 September 2015**

Time: **1130-1330**

Location: **East Theatre**

Dress Code: **Business attire**

After its successful inauguration at DSEI 2013, the Rising Stars Reception will be held again in the East Theatre on Friday 18 September 2015. The Reception aims to bring together the leading people in the industry with the young generation who are starting their careers.

It will kick off with a panel discussion composed of distinguished thought leaders encouraging the next generation to network & learn from senior military and leading industry figureheads, followed by networking drinks in the Land Zone bar.

“ Bringing together the leading people in the industry with the young generation who are starting their careers ”

Last year's speakers included:

- **Air Vice-Marshal Mike Lloyd**, Air Officer Commanding No 22 (Training) Group and Chief of Staff Training, Royal Air Force
- **Rear Admiral C J Hockley**, Flag Officer Scotland, Northern England & Northern Ireland and Flag Officer Reserve Forces, Royal Navy
- **Major General Kevin Abraham**, Director General for Army Reform, British Army in addition to a Defence Academy

This year we will once again host representatives from the military across the services, as well as academia and industry.

Who should attend?

The Rising Stars Reception offers great learning and networking opportunities for recent graduates and apprentices who want to further their careers or are just starting their careers in the defence industry. They will be able to receive first-hand information and experiences from industry stakeholders and also have the opportunity for Q&As.

For companies, this is a great chance to seek out the next generation of talent and show graduates and potential apprentices the opportunities that they have to offer for their development and future careers in this thriving industry.

For any further details and if you are interested in attending please contact: sitara.webster@clarionevents.com.

New high-level conferences

Reflecting the increased level of content for 2015, DSEI will stage four new high-level conferences.

Focused on the future strategy of maritime defence, rotorcraft technology, front line medical services, and lessons learnt from the recent Ebola epidemic, the one-day Strategic Conferences will take place on Monday 14 September (Day Zero) and Tuesday 15 September (Day One).

DSEI's Strategic Conferences will be open to the entire international defence and security community with complimentary attendance for members of the military and accredited media.

To register for the Strategic Conferences please contact enquiries@dsei.co.uk.

“DSEI attracts a top quality audience of more than 30,000 visitors to ExCeL London. We are focused on growing this number for DSEI 2015 and are targeting over 100 official delegations, reinforcing the event's position as the global hub of defence and security expertise. The expanded scope of the pre-DSEI conferences will provide a valuable additional opportunity for visitors to learn about and discuss developments within three crucial areas of technology.”

Duncan Reid, DSEI Event Director



The First Sea Lord/RUSI International Sea Power Conference



Date: Monday 14 September 2015 (Day Zero)

Time: 0930 - 1800

Keynote: Admiral Sir George Zambellas KCB DSC ADC DL FRAeS, First Sea Lord and Chief of the Naval Staff of the Royal Navy

The 21st Century has been described as the Maritime Century due to the increasingly vital nature of international trade by sea and the resurgence of maritime power most evident in Indo-Pacific Asia.

With renewed strategic and political focus on international maritime affairs at a time of accelerating geopolitical complexity, uncertainty and technological advancement,

the conceptual demands placed upon governments and the leaders of naval forces are, in many ways, unprecedented.

The First Sea Lord/RUSI International Sea Power Conference will provide an excellent conceptual component to the already strong maritime element of DSEI 2015, which will include visiting naval vessels and waterborne demonstrations.

Recognising the unique opportunity for international engagement ahead of DSEI 2015, the First Sea Lord/RUSI International Sea Power Conference will provide a platform for exploring thinking from across the globe on the strategic responsibilities fulfilled by navies in the contemporary and future maritime environment.

0930 - 0945	Admin Remarks and Welcome: Royal United Services Institute (RUSI)
0950 - 1030	Keynote One: Strategic Responsibilities of Navies Chair: Professor Michael Clarke , Director General RUSI Speaker: Admiral Sir George Zambellas KCB DSC ADC DL FRAeS , First Sea Lord and Chief of the Naval Staff of the Royal Navy

Session A	
A Sea Change in European Sea Power Orthodoxy?	
1035 - 1230	Chair: Lord Mountevans (Jeffrey Evans) Speakers: Title TBC Vice Admiral Peter Hudson , Commander MARCOM, NATO Lessons from Gulf Carrier Operations Captain (CN) Olivier Lebas , French Navy

Session B	
Growing Naval Powers	
1330 - 1500	Chair: Professor Jim Bergeron , POLAD MARCOM, Associated Fellow, RUSI Speakers: Balancing National Priorities Admiral Carlos Ortega , Mexican Navy Combating Illegal Fishing Senior Brazilian Admiral

Session C	
The Great Challenges - Naval Power in the Indian and Pacific Oceans	
1500 - 1630	Chair: Dr Martin Murphy , Associate Fellow F, RUSI Speakers: HADR and Amphibious Capability Vice Admiral Otska , COS, Japan Maritime Self-Defence Force Ownership of the Indian Ocean Senior Admiral , Indian Navy (TBC) Co-operation Rear Admiral Yuan Yubai , North Sea Fleet Commander, People's Liberation Army Navy Title TBC Rear-Admiral Jeff Harley , Deputy CNO Ops, Plans and Strategy, US Navy

1715 - 1800	Keynote Two Chair: RUSI Secretary of State for Defence
1900	First Sea Lord's Reception, T23 (by invitation only)



Future of Military Rotorcraft: 2030 and Beyond

Date: **Monday 14 September 2015 (Day Zero)**

Time: **0930 - 1705**

Keynote: **Major General Richard Felton**, Commander, UK Joint Helicopter Command

Supported by: **Joint Helicopter Command**

The United States' Department of Defence (DoD) are developing their next generation of vertical lift utility and attack rotorcraft that will offer, at a minimum, significantly increased speed and range. There will be four specific areas of development: Future Vertical Lift (FVL) light, medium, heavy and ultra.

The first to be addressed is FVL medium, which is aimed at replacing the entire fleet of UH-60 Black Hawks and AH-64 Apaches across all services. The process is already underway, with Bell Helicopter

and the Boeing/Sikorsky teams both developing Joint Multi Role (JMR) technology demonstrators that will fly in 2017.

The morning session of the conference will address the requirements needed to develop the next generation of vertical lift rotorcraft. It will include presentations from serving military, both from the USA and the UK, and agencies involved in the creation of the DoD's next generation of vertical lift.

The afternoon session will focus more on the present day and look at the transition

of military forces to new vertical lift technology and the difficulties that such a transition poses. It will take examples from those who have conducted or are currently managing transitions within their fleets.

There will also be an examination of the constant changing face of technology and the implication of its continuing rapid development on both the design and structure of new rotorcraft, as well as the changing role that mission systems will bring to future rotorcraft.

0830 - 0925	Registration, Tea and Coffee
0930	Chairman's Opening Address Andrew Drwiega , DefenceWorX Ltd
0935	Welcome and Introduction - Strategy Brief Major General Richard Felton , Commander, Joint Helicopter Command, UK Ministry of Defence



The Joint Helicopter Command is very much looking forward to attending DSEI 15 and the Rotorcraft Strategic Conference. The JHC's Future Capability Strategy, which provides a roadmap for the development of Air Manoeuvre capability over the next three decades, will soon be implemented and DSEI provides a great opportunity to discuss emerging opportunities with our industrial partners.



Air Commodore Richard Mason OBE MA,
Joint Helicopter Command

Addressing Requirements to Develop the Next Generation Vertical Lift Rotorcraft

1100	MOD Overview of the Rotary Challenge up to 2030 Air Commodore Simon Moss , Director Helicopters, Defence Equipment & Support
1120	The Future of US Army Rotorcraft Development (JMR and FVL) Richard Kretzschmar , Program Manager Improved Turbine Engine/ Future Vertical Lift, US Army PEO Aviation
1140	JMR TD - The Bell Helicopter V-280 Valor Tiltrotor Keith Flail , Program Director for Future Vertical Lift, V-280, Bell Helicopter
1200	JMR TD - The Boeing/Sikorsky SB.1 Defiant Coaxial Helicopter J. Patrick Donnelly , Program Manager, Future Vertical Lift, Boeing Military Airplane - Vertical Lift Division
1220	Future Operating Environment Challenges and Opportunities for Rotorcraft Elizabeth Quintana , Director, Military Sciences & Senior Research Fellow Air Power, RUSI
1240 - 1300	Panel Q&A

The Modernisation and Transition of Military Forces to New Vertical Lift Technology

1400	Rotorcraft Modernisation Lt Gen Alexander Schnitger , Commander, Royal Netherlands Air Force
1440	Rotorcraft Modernisation: The Australian Defence Force Experience Rear Admiral Tony Dalton , Head Helicopters, Unmanned Aerial Systems and Guided Weapons Division (HUG-D), Australian Defence Organisation
1500 - 1530	Panel Q&A

Ensuring Better Performance in Rotorcraft: 2015 Onwards

1600	Technologies for the Next Generation of UK MOD Rotorcraft Pat Collins , Science Gateway to Helicopters Operating Centre, DE&S, Ministry of Defence
1620	Manned-Unmanned Teaming - The Next 20 Years Richard Kretzschmar , Program Manager Improved Turbine Engine/ Future Vertical Lift, US Army PEO Aviation, US Army PEO Aviation
1640	Through Life Support Management Phil Williams , Managing Director, UKCeB
1700	Chairman's Thank You and Closing Remarks

If you haven't confirmed your Strategic Conference pass yet and you would like to attend, please contact enquiries@dsei.co.uk



Trauma Innovation

Date: **Monday 14 September 2015 (Day Zero)**

Time: **0930 - 1655**

Keynote: **Brig. T.J. Hodgetts CBE**, Medical Director, Defence Medical Services

Trauma Innovation provides the opportunity for cutting edge trauma developments to be presented in a conference setting the day before the main DSEI Exhibition starts.

Developed in partnership with Defence Medical Services, the 2015 programme has three themes: Legacy of Conflict; Future Conflict; and Conflict Research.

Legacy of Conflict examines how key current clinical challenges are being

tackled, specifically heterotopic ossification, long term rehabilitation, noise-induced hearing loss and tinnitus.

Future Conflict considers the challenges of medical support in the future, including sustaining and improving outcomes with extended clinical time lines; striving to avoid reliance on fridges and freezers; working at altitude; the role of the International Red Cross; and the future clinical environment on a military helicopter.

Conflict Research is an opportunity for academic institutes, at the very forefront of clinical advances, to present their latest research developments in trauma.

In the main DSEI exhibition (15-18 September), the area of clinical care and recovery has increased in importance this year. The Medical Innovation Zone will host demonstrations and exhibits showcasing new developments and research in casualty/patient care.

0930	Opening Introduction Brigadier Timothy Hodgetts CBE , Medical Director, Royal Centre for Defence Medicine
0945-1020	Keynote Brigadier Timothy Hodgetts CBE , Medical Director, Royal Centre for Defence Medicine



Trauma Innovation is one of the most well thought out and presented conferences in the world today [...] From experienced physicians and emergency medical personnel to those in training, this conference has something to offer anyone who provides care to the critically injured patient.

Joseph Rappold MD, FACS, CAPT MC USN (Ret'd) and Professor of Surgery, Temple University School of Medicine, USA



Session One: Legacy of Conflict

1030	Introduction Colonel Peter Mahoney OBE , Defence Professor Anaesthetics, Defence Medical Services
1045	Heterotopic Ossification: Understanding, Treatment and Mitigation for Future Conflicts Surgeon Captain Sarah Stapely , Defence Professor of Trauma and Orthopaedics, Defence Medical Services
1105	Rehabilitation in Conflict Wing Commander Alex Bennet , Consultant Rheumatologist, Defence Medical Rehabilitation Centre
1125-1135	Questions/Discussion

Session Two: Future Conflict (1)

1205	Introduction Colonel Peter Mahoney OBE , Defence Professor Anaesthetics, Defence Medical Services
1210	Freedom from Fridges - Ensuring Resuscitation Lieutenant Colonel Tom Woolley FRCA RAMC , Defence Senior Lecturer in Trauma Anaesthesia
1225	Surgical Teams in Harsh Environments - Austerity and Altitude Colonel Paul Parker , Consultant Trauma & Orthopaedics Anaesthetics, Royal Centre of Defence Medicine, Queen Elizabeth Medical Centre
1245	Future Environments for Pre-Hospital Care Lieutenant Colonel Chris Wright , Defence Consultant Advisor, Pre-hospital Emergency Medicine
1300-1305	Questions/Discussion

Session Three: Future Conflict (2)

1405	Introduction Colonel Peter Mahoney OBE , Defence Professor Anaesthetics, Defence Medical Services
1410	New DCS/New Timelines - UK Surgeon Captain Rikard , Defence Medical Services
1430	New DCS Approaches from the USA Kirby Gross , Director, Trauma Care Delivery, USA Institute of Surgical Research
1450-1505	Questions/Discussion

Session Four: Conflict Research

1525	Introduction Colonel Peter Mahoney OBE , Defence Professor Anaesthetics, Defence Medical Services
1530	Centre for Blast Injury Studies Professor Anthony Bull , Centre Director, Centre for Blast Injury Studies, Imperial College London
1550	Cranfield Impact and Armour Group Dr Deb Carr , Senior Lecturer in Impact and Armour, Centre for Defence Engineering, Cranfield Defence and Security, Cranfield University
1610	Mental Health Wing Commander Di Lamb , Senior Research Fellow, Royal Centre of Defence Medicine
1625	DSTL Dr Emrys Kirkman , Defence Science & Technology Laboratory
1645-1700	Questions/Discussion



Ebola Learning Exploitation

Date: **Tuesday 15 September 2015 (Day One)**

Time: **1000 - 1645**

Keynote: **Jennifer Cole**, Senior Research Fellow, Resilience & Emergency Management, Royal United Services Institute (RUSI)

The Ebola Learning Exploitation conference that will take place during the first day of DSEI, Tuesday 15 September 2015, will review the Defence Medical Services role in the UK response to the 2014-15 Ebola outbreaks in West Africa, particularly Sierra Leone.

The keynote speech by Jennifer Cole from the Royal United Services Institute will set the scene by examining the reasons behind the outbreak and subsequent talks will discuss the innovative approaches taken and lessons learned from planning, training and delivering care on Operation Gritrock. Topics covered will include the rapid establishment of a bespoke training

facility, development of a novel clinical grading system, the delivery of the highest standards of intensive care in an otherwise resource-poor setting and the challenges of conducting vital research in this environment. The conference will close with a look to the future in which unplanned operations of this sort appear inevitable.

Opening Plenary Session

Chair: **Surgeon General**

0900	Registration, Tea and Coffee	1040	The Rationale for Military Involvement in the UK Ebola Response Brigadier Kevin Beaton , Commander of 2nd Medical Brigade
1000	Introduction Chair: Air Marshal Paul Evans CB , Surgeon General		
1010	The Reasons behind the Ebola Epidemic in West Africa Jennifer Cole , Senior Research Fellow, Resilience & Emergency Management, Royal United Services Institute (RUSI)	1110	Panel Questions/Discussion

Parallel Sessions

Parallel Session A - Planning and Training

Chair: **Brigadier Charlie Beardmore**

1130	Cross-Government Planning Wing Commander Sonia Phythian , HQSG
1150	The Military Plan Lieutenant Colonel Tim Steele , Commander of 2nd Medical Brigade
1210	Establishing an EVDTU - Designing and Building a New Field Hospital Paradigm Lieutenant Colonel Alison McCourt , Commander 22 Field Hospital
1230	Validation and Assurance in Training to Manage Highly Contagious Disease Major Chris Gibson , Army Medical Services Training Centre
1350	Mobilising the Reserve for a Short-Notice Operation Kath Higgins , 207 Field Hospital Manchester
1410	How did Training Prepare for Delivery? Lieutenant Colonel Dave Hinsley , DMD Op Gritrock
1430	A Training Academy for Local National Healthcare Workers Lieutenant Colonel Doug Bowley

Parallel Session B - Delivering Care

Chair: **Colonel Duncan Wilson**, DMS Professor of Military Medicine

1130	Setting the Care Standards: Clinical Lieutenant Colonel Mark Bailey , Infectious Disease Consultant
1150	Setting the Care Standards: Ethical Challenges Colonel Jeremy Henning , Critical Care Consultant
1210	A Combined Military/PHE Laboratory Lieutenant Colonel Emma Hutley , DCA Path
1230	The Enhanced Care Bundle and Impact on Outcomes Surgeon Commander Stuart Dickson , Infectious Disease Consultant
1350	Post-Exposure High Risk Cases: In Theatre Care Colonel Patrick Connor , DCA Med
1410	Aeromedical Evacuation Of Patients With Infectious Diseases Group Captain Andy Green , DCA Centers for Disease Control (CDC)
1430	Returnees: The Public Health Challenge Colonel David Ross , DCA PH

Plenary Session - Research and Continuous Improvement

Chair: **Brigadier Tim Hodgetts**

1500	Driving Continuous Clinical Improvement Brigadier Tim Hodgetts , Medical Director, Defence Medical Services	1600	The Human Impact: Analysing Impact on Mental Health Wing Commander Di Lamb , Senior Research Fellow, Royal Centre of Defence Medicine
1520	A Strategy for Ebola Research and Data Exploitation Colonel Duncan Wilson , Defence Prof Medicine	1620	Ensuring Resilience for a Future Outbreak Major Tom Fletcher , Infectious Disease Physician
1540	The Human Impact: A Personal Perspective Major Lucy Lamb , Infectious Disease Physician	1640	Summary and Close of Meeting Brigadier Tim Hodgetts , Medical Director, Defence Medical Services



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Visitor Portal: access all the event information you need in one place

The **Visitor Portal** can be accessed via www.DSEI.co.uk

The Visitor Portal is a secured area of the DSEI website which holds all the information you need for a productive visit.

It's important to be well organised before attending DSEI as the scale of the event can catch the visitors unawares. The DSEI Visitor Portal is the essential online tool to plan your time at the event, enabling you to shortlist exhibitors by country of operation and capabilities, as well as viewing the complete and most up to date content programmes. There is also

information on getting to the event, and details of the admission policy, which is vital reading before setting off to make sure your visit runs smoothly.

The Visitor Portal is a secured environment that can be accessed only by verified visitors. It will also allow visitors to network with exhibitors prior to the event and arrange meetings during DSEI.

The Portal contains the following:

Important visitor information

This will include frequently updated details for travelling to DSEI including train, air and road.

Conference and Seminars full programmes

Keep up to date with the latest additions to the content programmes.

Relevant events, receptions and workshops

Find out about relevant associated events during DSEI.

Detailed exhibitor list

Research the exhibitors before the show - refine your search using their product/services, or countries they operate in. View complete exhibitor profiles, including brochures, videos and product information.

Meetings booking facility

Network before, during and after the event with exhibitors and request and accept meetings on your online diary.

Diary

Use the easy to manage diary of conferences and events during the open days of the event to make sure you make the most of your time.

Interactive floorplan

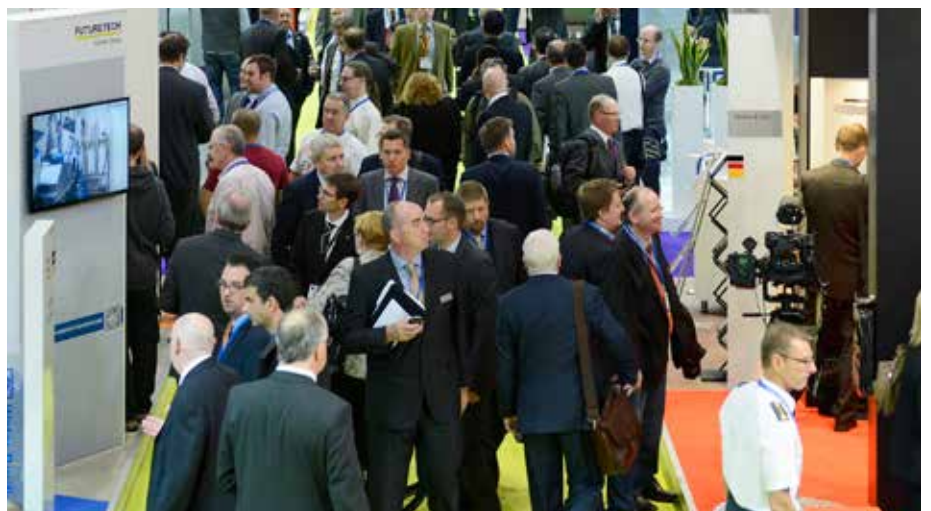
Navigate your way around the exhibition halls of ExCeL - find the stands, theatres and facilities you are looking for.

Concierge service

Book accommodation and travel arrangements and make restaurant reservations through Zibrant, DSEI's official concierge service.

Meet the Supply Chain

This facility will assist prime contractors and SMEs to connect with each other at the event.

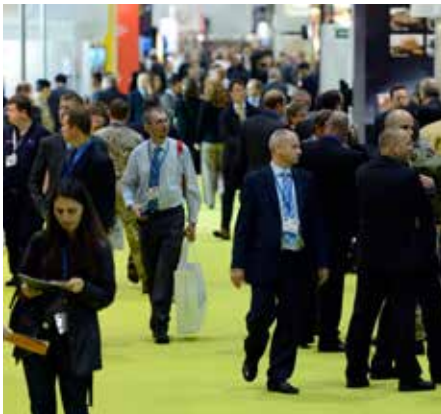


DSEI 2015 is being held at:

ExCeL London

One Western Gateway,
Royal Victoria Dock,
London, E16 1XL

With DSEI 2015 nearly here, it's essential that you have your trip well planned so you can make the most of your visit.



Badge holders

DSEI takes over the whole ExCeL - if you have received your badge before the event you can use either the East (Prince Regent) or West (Custom House) entrances. If your badge hasn't arrived before you leave for the event, you will have to collect it from the East entrance (Prince Regent).

All visitors must pre-register for DSEI, and must present a photo ID/military ID on arrival at the venue.

Travel

By air

London has six international airports, we recommend using London City Airport whenever possible due to its proximity to the venue.

Approximate travel times:

London City Airport

5 minutes (car or taxi)

15 minutes by Docklands Light Railway (DLR)

Gatwick

1 hour 15 minutes (car or taxi)

1 hour (public transport)

Heathrow

1 hour 20 minutes (car or taxi)

1 hour 30 minutes (public transport)

Luton

1 hour 20 minutes (car or taxi)

1 hour 40 minutes (public transport)

Southend

1 hour 10 minutes (car or taxi)

1 hour 35 minutes (public transport)

Stansted

1 hour (car or taxi)

1 hour 10 minutes (public transport)

By rail

London is connected by rail to all major cities in Great Britain, with main terminals at Charing Cross, Euston, King's Cross / St Pancras International, Liverpool Street, London Bridge, Marylebone, Moorgate, Paddington, Victoria and Waterloo.

Eurostar operates regular train services from Paris and Brussels to St Pancras International.

By tube / DLR

ExCeL has two entrances with DLR stations nearby - Custom House for ExCeL (West) or Prince Regent for ExCeL (East) and ICC London. The Jubilee Line is recommended for the quickest route to ExCeL - alight at Canning Town and change onto a Beckton-bound DLR train.

By road

When driving to ExCeL, follow signs for Royal Docks, City Airport and ExCeL. There is easy access from the M25, M11, A406 and A13. A map of the local roads is downloadable from ExCeL's website; under the Visiting ExCeL tab, click on the Parking/Driving icon and follow the link under 'Travel by Road'.

The AA provides information on planning your journey and 24-hour live traffic reports - call **+44 (0) 906 888 4322**, or visit **www.theaa.com** for up-to-date information.

For a map of ExCeL London's location, please visit Google Maps and search by using the postcode **E16 1XL**.

For SatNav purposes, we recommend using the postcode **E16 1DR**.

Parking information

ExCeL London offers on-site parking for 3,700 cars, with 158 disabled parking spaces available to blue badge holders only.

All onsite parking is pay and display with the exception of the Royal Victoria multi-storey car park which is located at the west end of the site. Parking can be paid for at one of the three pay points in the carpark at the end of your visit.

The other car parks are located in the Undercroft (Orange, reserved for exhibitors, and Purple) and the East Car Park.

Parking on all onsite locations is £15 for up to 24 hours - please use the correct change as no change will be given or notes returned. There is an additional tariff for the lorry and coach park areas.

Please note: if you are driving to ExCeL the car parking is at the west. If you have your badge you can enter at the West entrance. If you don't, you will then need to get the DLR from Royal Victoria station for two stops to Prince Regent station. Here you will be able to collect your badge.

By river and cable car

Thames Clippers are the leading commuter boat service on the River Thames. Departures are available from all major piers, including the O2, Greenwich, Canary Wharf, Tower Millennium, London Bridge City, Embankment and the London Eye. During peak hours there is a departure every 20 minutes.

From the O2, take the Emirates Air Line Cable Car for the short journey across the Thames to ExCeL.

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Opening Times

Tuesday	15 September 2015	0930 - 1700
Wednesday	16 September 2015	0930 - 1700
Thursday	17 September 2015	0930 - 1700
Friday	18 September 2015	0930 - 1600

Ensure your visit to DSEI runs smoothly with these helpful suggestions.

Concierge service

DSEI have appointed Zibrant as the official supplier of the concierge and accommodation service for DSEI 2015. Zibrant have made recommendations for different facilities that you may need during your stay. This includes hotels, restaurants and travelling around London to theatre trips and tourist attractions. Simply call a member of the team on **+44 (0) 8434 790015**, or email **dsei@zibrant.com**.

ExCeL business services

For all your business service needs, including photocopying, faxing, essential office supplies and a Bureau de Change, visit the ExCeL London Business Services Unit on Level 0, or telephone them on **+44 (0) 20 7069 5050**.

Information desks

Located at the East and West entrances - helpful staff are on hand to answer any questions you might have. You will also find a range of useful maps and leaflets.

Changing rooms

Military Personnel are encouraged to wear uniform. Changing facilities will be available upon request. Ask at the concierge desk on the boulevard for further details.

Cloakroom and luggage check

The main cloakroom is centrally located within the boulevard on Level 0.

ATM - Banking services

Barclays and HSBC ATMs are centrally located within the Boulevard on Level 0. ATMs on Level 0 are free to use and all bankcards are accepted. The nearest banks, including a cashier service, are located at Canary Wharf, approximately 15 minutes from ExCeL London.

Convenience stores

Whistlestop, Amigo and Capital offer a range of fresh sandwiches, soft drinks, snacks and confectionery. Essential stationery items, newspapers, magazines and cigarettes are also available. Whistlestop is located at the West entrance next to Event Hall N4 and Amigo is located between Event Halls S2 and S3. Capital Convenience and mini supermarket is located under the Capital East Apartments, on ExCeL London's dockside. A Nisa supermarket is located to the west of ExCeL on the Western Gateway. There is a Tesco Express close to the ExCeL station of the Emirates Air Line cable car.

Disabled access

ExCeL London has been purposefully designed to allow unrestricted access for disabled visitors. Disabled toilets are provided throughout the venue. Telephones are located at levels suitable for wheelchair users. Disabled parking bays are available at all car parks. ExCeL London has a limited number of manual wheelchairs available for hire. The equipment is supplied, on a first come first served basis, from the information desks located at the West and East, with a fully refundable deposit. For more detailed information please visit the ExCeL website: **www.excel-london.co.uk** or telephone: **+44 (0) 20 7069 5000**.

First aid

A fully equipped medical treatment room is available on Level 0 of the central boulevard and is managed by a nurse from 0800 - 2000 daily. They can be contacted on **+44 (0) 20 7069 5556**.



Registration

DSEI is open to official delegations, exhibitors' guests, DSEI VIPs, Ministry of Defence visitors (UK and overseas), media and trade visitors. Anyone who has been invited by an exhibitor must include the Exhibitor Guest Code, which gives permission for the inviting company to contact you with relevant event information.

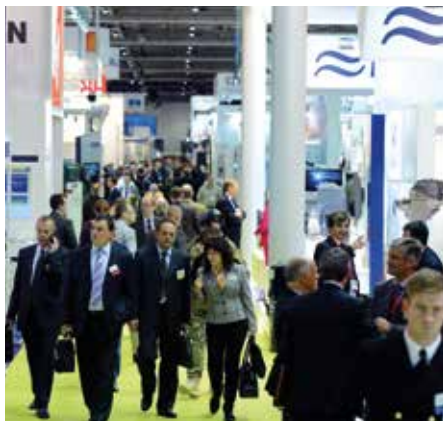
Please note: media must apply online to comply with the accreditation process, which includes photographs for badges.

During the exhibition itself, there will be a limited onsite registration facility – expect delays.

Admission is restricted to professional and business visitors who have been invited.

General

- Visitors should be engaged in legitimate areas of defence and associated industry, the government, equipment procurement organisations, defence colleges and research establishments.
- All stand personnel, visitors, guests, stand contractors and services acknowledge that only the Organiser's official admission badge, worn by the person named on it, will permit admission (as the Organiser's licensee) into ExCeL/DSEI 2015. The badge remains the property of the Organiser and has a notional value of 0.01p.
- No person named on the badge or the company, firm or business, which that person represents, may permit the badge to be worn by another person. The wearing of a badge under these circumstances will constitute appropriation, an automatic termination of such licence and will be sufficient grounds for the unauthorised individual to be removed from the exhibition. It may also lead to prosecution. Identity checks will be conducted as a condition of entry.
- All persons attending the exhibition should carry and produce on request a supporting personal photographic identity document – passport, photo-ID, military ID, driving licence, national identity document or similar.
- All stand personnel, visitors, academics, guests, stand contractors and service providers should pre-register. Their names will be subject to a security clearance process. Pre-registrations are subject to a non-refundable administration fee.
- Any person found to be registering to attend DSEI using false information or credentials or deliberately withholding information will have their application automatically denied and may be liable to prosecution.
- Without prejudice, the Organisers reserve the right to exclude any person(s).
- No photography or filming of stands and/or exhibits is allowed without the expressed permission of the stand manager.
- Closed Circuit Television Cameras (CCTV) will be in operation at all times during DSEI. The Organisers reserve the right to deliver the CCTV videotapes to the Police or other competent authority as evidence if requested to do so. The contents of such videotapes may be used as evidence in a court of law. For further information contact the Security Manager.
- The Organisers reserve the right to film/ permit approved third party filming across the show open days of DSEI. By attending the show, visitors permit the Organisers/ approved third parties to use any footage taken.
- No sponsorship, promotional, marketing, political or any article to be used for a commercial or a charitable purpose or prohibited materials may be brought into, used or displayed by any person inside DSEI without the express written permission of the Organisers. Any person in possession of non-permitted items will be refused entry to or ejected from the venue and site. Prohibited items include knives, fireworks, explosives, smoke canisters, aerosols, air-horns, noisemakers, flares, weapons, dangerous or hazardous items, illegal substances, laser devices, bottles, glass vessels, cans, poles, or any article that may compromise public safety or which may pose a hazard or nuisance to any other person.
- Visitors should be aware that the purchase, procurement or brokering of any exhibit or promoted item on display at DSEI may require the granting of a strategic export license from the relevant UK government organisation. For more information and to access a copy of the legislation please see the guide on the Export Control Order 2008 on the ECO website.
- Any visitor who at the sole discretion of the Organiser is deemed to be engaging in controlled business or activity during the exhibition and who is not in possession of relevant trade control licenses may be subject to action on the part of the Organisers including revocation of the application to attend and expulsion from the event. The ECO and other relevant authorities will be informed of any such activity, which may result in legal action being taken against the visitor by these authorities. Visitors expelled from the event will have no claim for redress against the Organisers, nor any refund for loss of fees.
- All persons attending the exhibition must wear business or service dress.
- No person under the age of 18 years, including children of exhibitors, will be admitted during the tenancy period.
- Canvassing is not permitted.
- No refunds are given to any booking fees or administration fees made for either DSEI or the Strategic Conferences.
- The Organisers reserve the right to exclude or remove anyone from DSEI and ExCeL who does not comply with this policy or who they reasonably consider are likely to break these rules.



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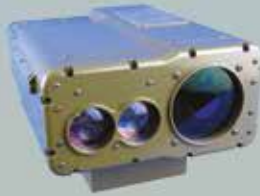


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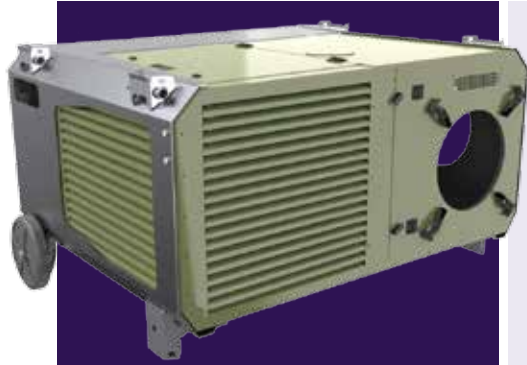


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Keeping cool on the move

Zhendre, which is celebrating its 60th Anniversary in 2015, have announced their new, patented, Mobile Air Conditioner, which has been especially designed to cool – or heat – tents or shelters. The new, modular design of the air conditioner facilitates maintenance, improves energy performance and the automated functions enable precise control. Zhendre have also recently launched the CTZ10HR2, a 10kW Tent Air Conditioner, which has been designed to run economically, with peace-keeping missions particularly in mind. Zhendre has worked with the French Army, the European Corp, and NATO as well as at least 15 other armies.

Inzpire's powerful mapping

Inzpire Ltd will launch their latest software GECO (Land) at DSEI 2015, following on from the successful GECO (Air). GECO (Land) provides powerful mapping and satellite imagery capabilities in 2D and 3D visualisations, enabling planning, execution and after-action review. The combined GECO mapping and Forsberg OPTOnav® system application provides unique tactical image-based geo-survey coordinates for tasks including precision targeting, Special Forces tasks and reconnaissance missions. The system can interface with hand held equipment including laser range finders and thermal imagers, giving GECO (Land) the ability to find targets both day and night.



Quick, lightweight masts

The SMC Group are launching the new SWIFT mast, which utilises newly developed technology and is designed to be robust in even the most hostile environments. It can range in height from four to 10 metres, with head-loads up to 10kg – perfect for use with antennas, cameras, sensors and lighting systems. The mast sections are made from aluminium tubes, so it is lightweight, easy to transport and quick to deploy. The innovative cam lever locking collars enable height adjustment for each requirement, and the new damping system means the mast can be quickly retracted.

ATLAS's new minesweeping contract

ATLAS ELEKTRONIK UK Ltd have been awarded the first phase, worth £13M, of a £28M contract by the UK Ministry of Defence to supply an Autonomous Minesweeping Capability to the Royal Navy (RN). These Unmanned Surface Vessels (USVs) will create underwater influences to detonate mines in a controlled manner. The contract will be executed over the next five years, and is built on the ARCIMS Mission System, fitted with the latest generation of minesweeping payloads.

The system will include the autonomous "Sense & Avoid" capability to enable safe operations at sea. The major benefit of the unmanned sweeping systems is that it can safely clear sea lanes from mines, therefore removing the man from the minefield. The ARCIMS mission system, based on a specially designed 11 metre vessel, can be transported easily by road, rail or military aircraft. It can be operated from shore with the minimum of support, or launched and recovered from an RN Hunt Class Mine Countermeasure Vessel (MCMV).

ATLAS ELEKTRONIK have partnered with Babcock, who will provide the equipment handling, launch and recovery systems as well as the requisite structural design, platform system integration and support to the operational safety case. The system will be integrated by BAE Systems within their Nautis command system that is installed on all Royal Navy MCMVs.

Philip Dunne MP, Minister of State for Defence Procurement said, "This contract is an important step forward in enhancing the Royal Navy's ability to defeat sea mines whilst reducing risks to our service personnel. [...] This sophisticated equipment with a range of capabilities will enable our Armed Forces to undertake consistently effective operations and mine clearance in challenging environments."



Breakthrough oxygen supply

Airborne Systems, who have over 90 years of designing, developing and making parachutes, have evolved to use advanced technology to develop a diverse range of products for all kinds of applications and missions. They have recently produced SOLR™ - the Special Operations Long Range oxygen supply - which, when used with a parachutist oxygen mask, is suitable for the most extreme High Altitude & High Opening / Low Opening missions. The system is available in 3,000psig and 4,500psig fill pressure bottles. SOLR is an important breakthrough for Airborne Systems as they are building the masks, not using outside vendors.



RUD's chains for harsh conditions

One of the largest manufacturers of chain systems and components to the Armed Forces worldwide, RUD's lifting range is vast, offering over 500 different tested and certified lifting/lashing points covering a working load capacity range from 0.6 to 200 tonne. RUD Military Technology is meeting the specific needs of the world's defence forces, on land, sea and air, through innovative products from lifting and load securing equipment to snow and traction chains.

RUD's robust technology lifting devices work under harsh conditions up to -60°C, meaning work can always be done. The advanced metallurgy of the ICE and VIP ranges of lifting and lashing chains offers the advantages of smaller lighter components with comparably higher lifting capacities. Their lashing systems for transporting military equipment meet all the relevant military standards, and the chains can operate in the toughest weather conditions whilst offering stability and security.

RUD's resilient non-skid snow and traction chains were developed to guarantee maximum traction on snow, ice and off-road. Their lightweight snow and traction chains with sturdy grip links that provide essential bite to get through deep, compacted snow and soft ground, making them an essential accessory for the unpredictable working environment of the Armed Forces.

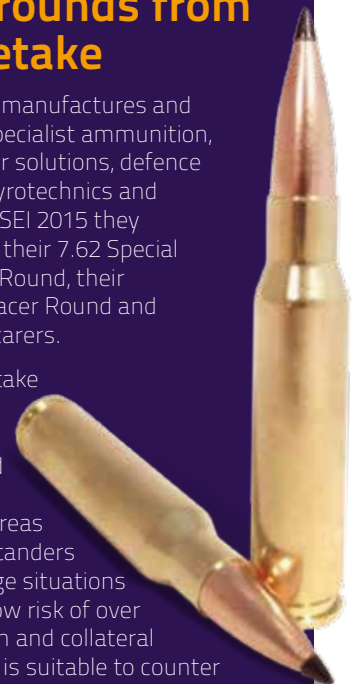


New rounds from Primetake

Primetake manufactures and supplies specialist ammunition, public order solutions, defence projects, pyrotechnics and more. At DSEI 2015 they will exhibit their 7.62 Special Purpose 2 Round, their 0.50 Cal Tracer Round and new Birdscarers.

The Primetake 7.62mm SP2 round is designed for use in sensitive areas where bystanders and hostage situations require a low risk of over penetration and collateral damage. It is suitable to counter the evolving terrorist threat of today, where the situation is often dynamic and urban-based, requiring the most effective and efficient solution. Created to defeat laminated and double-glazed windows at 100m and beyond, the new round will penetrate glass and remain accurate to achieve secondary target engagement.

The 0.50 Cal Tracer round has been specifically designed for extreme range accuracy, and is identified by its glossy red tip. The red trace has full illumination at 100m, and remains illuminated to the target at 1450m. The 0.50 Cal Tracer completes Primetake's range of .50 Cal rounds, which all have a standard accuracy of 0.5 m.o.a or better.



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Modular bridge solutions

Mabey Bridge, a leading international provider of high quality bridging and infrastructure solutions, specialises in rapid-build, pre-engineered modular bridging solutions. The modern successor to the Bailey Bridge, which was frequently used in the Second World War, is the Mabey Logistic Support Bridge (LSB). The LSB has specially developed military components to allow for quick construction, with highly adjustable variable slope ramps, ground beam assemblies and heavier transverse beam sections to handle the heaviest military loads. It is primarily used on main supply routes to replace damaged bridges and support the infrastructure.



Waterproof power conversion

Analytic Systems will display their power conversion products at DSEI, in particular a new waterproof 3Kw inverter and a 300W intelligent battery charger. The SPS3000 is the latest model in their line of pure sine wave inverters, featuring the standards as the IPS3K series but in an IP67 rated weatherproof enclosure. The IBC 320 charger has been designed for the military, commercial marine and industrial markets, and features full digital signal processor control of both the LLC power switching network and the battery charging algorithms. The charger can be programmed via laptop for almost any type of battery.



New stealth vessel

Juliet Marine Systems (JMS) will be launching their revolutionary new vessel, GHOST, to the international market at DSEI 2015. GHOST is a combination of stealth fighter aircraft and attack helicopter technologies packaged in a marine platform, and it is designed to provide a surface and subsurface platform for tracking and identifying multiple targets. JMS has solved the technical challenge of controlling small waterplane area twin hull (SWATH) vessels at high speed, and the vessel also employs active drag reduction technology to increase speed.

GHOSTs can be used to create a fleet perimeter, providing sensor and weapon platforms, allowing no surface or subsurface intrusions. The same capabilities that have made helicopters valuable to get to hard-to-reach locations fast apply to GHOST in the maritime environment. Supply runs can be made two to three times faster than craft currently in use, with fewer weather restrictions than helicopter usage.

Laser protection for pilots

Gentex will display their new Dazzle Laser Defence Eyewear at DSEI 2015. This is their latest innovative laser threat technology line and offers protection for professional and private pilots. Designed to combat the hazards of low-intensity lasers without compromising visual acuity, Dazzle Eyewear is available as visors for selected Gentex helmet systems, and as spectacles to be worn with or without a flight helmet. In addition to the eyewear, Gentex have launched the HGU-56/P Aircrew Ballistic Helmet system, the HGU-56/P Improved Rotary Wing Aircrew Helmet, and the Step-In Visor.





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Phoenix to supply Danish Forces

Phoenix Dynamics has announced that it has been successful in securing a contract to supply the Danish Armed Forces with cable assemblies. This long-term contract marks the beginning of a four-year framework agreement between the Danish Defence Acquisition and Logistics Organisation (DALO) and Phoenix Dynamics which will see the Staffordshire-based business manufacture and supply large volumes of bespoke cable and electrical assemblies that will be used in electronic systems and subjected to harsh military conditions.

The first phase of the contract will see Phoenix manufacture an estimated 10,000 cable assemblies, over a period of 24 months, as part of a large-scale vehicle upgrade programme for the Danish Army. The cable assemblies will include single and multi-core screened cables, shielded low voltage power cables and fibre-optic cables. Electrical assemblies will include signal and power distribution equipment such as distribution boxes, patch and breakout boxes.

The announcement means that Phoenix Dynamics now supplies wiring systems directly to the armed services of four NATO countries. "This is a significant contract for Phoenix Dynamics and we are proud of the fact that the Danish Defence Acquisition and Logistics Organisation has entrusted us with such a long-term project. Contracts of this length are rare in our industry, which makes this award even more significant. The substantial amount of business resulting from the contract will help to secure jobs by providing a stable business platform over several years to come, and significantly strengthens our global export position," said Carl Kirk, the Phoenix Dynamics Sales & Marketing Manager.

Outdoor case range re-launched

B&W International have completely re-launched their range of outdoor cases in the past six months, changing from ABS plastic to polypropylene. They have created a new generation of outdoor cases that have a modern design, with an improved surface and are more robust and tougher than previous models. The cases have been developed to meet the demands of the toughest conditions, and are available in various sizes.

Looking ahead, B&W's most strategically important products will be cases for different kinds and sizes of drone quadcopters, which will be used increasingly for military and research, as well as commercial purposes.



Nexter upgrades vehicle

In February 2015, Nexter unveiled a VBCI combat vehicle fitted with the T40 modular turret. The weapon system is equipped with the 40CTAS, a revolutionary 40mm cannon developed by CTA International and recently chosen by the British Army for its Scout programme, and the French Army for its future Jaguar recce vehicle. VBCI, the combat proven standard of the 8x8 market, has already been deployed in Lebanon, Afghanistan, Mali and Central African Republic - now available with the T40 turret, fitted with the 40mm CTAS cannon and anti-tank missiles.

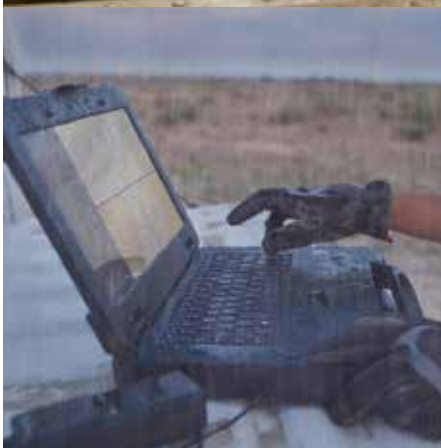
In May, Nexter presented the BATLIFT, their advanced facility for on-battlefield maintenance. It is an innovative solution to repair vehicles with workshop and service modules whilst remaining near the combat zone. The air-inflated structure can be ready to use in 12 hours, to protect sensitive systems and provide an isolated area in which to operate. The overhead crane can raise up to 10 tonnes and many repairs can therefore be carried out on site and protected from the elements.



Rugged and secure designs

Dell's aim is to provide simple, flexible and scalable solutions that meet the needs of a mobile, always-on, subscription-driven customer base. To extend that vision to support secure mobile work, they have recently released the Secure Venue 11 inch tablet, which that combines the portability of a tablet with the power of a laptop and the ability to secure data at Top Secret (UK/Canada) and Secret (NATO) accredited levels through an integrated ViaSat Eclipt® drive. Additional security features include a TPM 1.2 chip and Noble lock slot that can prevent physical theft of the device.

Dell also has a range of rugged tablets and laptops, built to survive the worst conditions. The backbone of the units is magnesium alloy, with a durable ultra polymer to absorb shocks. The rugged series are thoroughly tested, in real-life situations as well as in the laboratory; the glove-capable touch display has been engineered to reduce internal reflections and maintain contrast, even on a sunny day - without exhausting system battery life. Other advances include a backlit keyboard and a slide-shut camera viewer, whilst the universal connectivity has been retained.



CTruk start work on new centre

Work has begun on CTruk's new Advanced Composite Technology Centre on the River Colne, in Colchester. The company was boosted by the announcement in February 2015 that it had been selected to receive funding through the UK Government's Regional Growth Fund. The RGF grant acted as a catalyst for significant private investment for the project which is expected to create over 120 new jobs over the next few years, including the provision of training skills for 15 new apprentices.

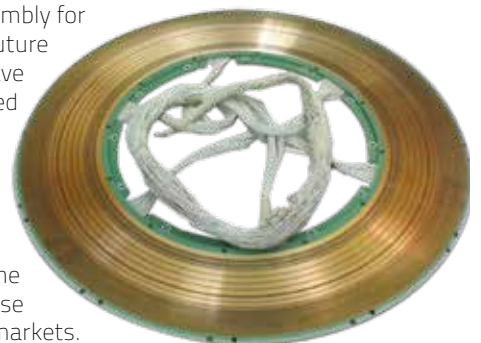
The centre will enable CTruk to build larger workboats designed to meet the complex demands of wind farms further offshore, educate the next generation of modern boat-builders and facilitate diversification into other commercial marine sectors. CTruk chairman Pete McIntosh commented, "We are delighted that our project has been selected and wholeheartedly thank all of those who supported the bid. It is our intention to continue driving UK innovation in marine vessel design and to remain competitive in a changing market. The Advanced Composite Technology Centre will enable use to diversify and grow sustainably, meeting our aspiration to be more than boat builders."

Pandect's focus on slip rings

Pandect Precision Components was formed to concentrate solely on the design and supply of sliding contact devices, and have offered customers a bespoke slip ring design and production service for over 40 years. The results of their work can be found on military equipment and industrial machinery worldwide, with applications ranging from sub-sea ROVs to the International Space Station.

A slip ring is a method of making an electric connection through a rotating assembly. Slip rings are also called rotary electrical interfaces, rotating electrical connectors, collectors, swivels or electrical rotary joints. In its most common form a slip ring assembly is a fully integrated unit with a housing, and bearings.

Pandect is planning to launch a slip ring assembly for a stabilised primary sight, mounted onto a Future Rapid Effects System (FRES) vehicle. They have recently created a slip ring package for wheeled armoured vehicles for the Asian defence market, which features Pandect slip rings in missiles, stabilised sight and vehicle turrets. Looking ahead, the Pandect Group will be engaged in the on-going production of slip ring assemblies for ground-to-air missiles. The programme will provide a solid production base for Pandect to expand to emerging defence markets.





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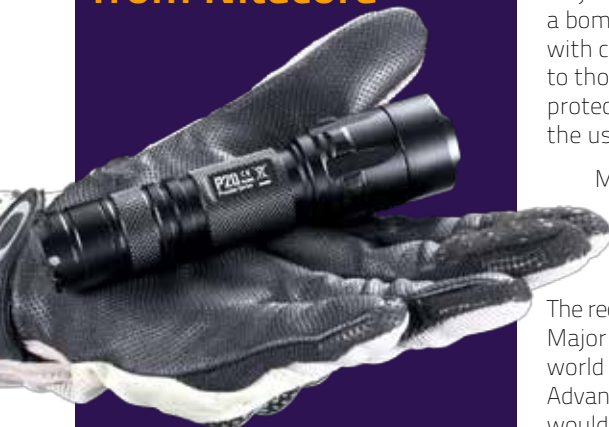


THOR built for future warriors

Savox is planning the European launch of its THOR combat helmet system, designed for the changing operational requirements of special forces. The increasing need for special forces operations and covert security to counter growing global terrorism and rising geopolitical tensions requires troops on the ground to be equipped with the best possible personal combat headgear, and THOR provides a key advantage in theatre. Already introduced to the Middle East, THOR is suited for many of the on-going future warrior programmes.

In addition to THOR, Savox are launching IMP-CH, a compact intercom system which can be used by applications on land, in B rated vehicles, and at sea, aboard smaller vessels (such as rigid-inflatable boats) as well as the largest such as destroyers and aircraft carriers. Equipping B-vehicle fleets with a C4I capability will alter the effectiveness of fighting forces through more effective logistics and re-supply on the battlefield.

Bright thinking from Nitecore



Nitecore will be exhibiting their new P20 Flashlight at DSEI 2015. This compact model, weighing just over 100g has an anti-rolling design in a solid tube of aero-grade aluminium alloy with HAIII hard-anodized finish, and toughened ultra-clear mineral glass with anti-scratch coating. It can be operated one-handed, even when wearing gloves, with a strobe-ready mode that can be accessed in any state. There are three different operational modes: tactical, law enforcement and general, which can quickly be accessed depending on the situation. The P20 utilises the Cree XM-L2 (T6) LED, with a maximum output of 800 lumens (and a burn time up to 50,000 hours), a peak beam intensity of 11,100cd and a throw distance of up to 210 metres.

Major breaks marathon record

Major Iain Church has broken the world record time for completing a marathon wearing a bomb disposal suit. The suit was supplied by Morgan Advanced Materials. Designed with cutting-edge materials technology and garment engineering, the suit was similar to those currently in service with the MOD, and is worn to give the highest levels of protection in the event of a blast whilst retaining maximum comfort and mobility for the user. Including the helmet, the suit weighed 30kg (66lbs).

Major Church's body temperature was measured by an internal thermometer that was swallowed before the event, with a team on hand to co-ordinate the speedy removal of the suit and the application of ice packs if necessary; fortunately, emergency cooling procedures were only required once, at mile 23.

The record attempt was successful, registering a time of six hours, 28 minutes and six seconds. Major Church said, "I'm absolutely over the moon that we were able to beat the previous world record by more than 27 minutes. A special thanks to my team, and to Morgan Advanced Materials for designing such an impressive piece of kit, without which none of this would have been possible." The challenge was raising money for The Royal British Legion.





Herstal's ergonomic innovations

For over 125 years, Belgium-based small arms manufacturer FN Herstal has been providing generations of military, special forces and law enforcement agencies with firearms that give them a clear advantage in any engagement. One of its recent innovations is the FN MINIMI® Mk3 Light Machine Gun, available in 5.56 cal and 7.62 cal, and featuring further enhancements on previous versions, based on feedback from actual combat experience.

The main changes to this model include an ergonomic and adjustable buttstock that can compensate for body armour and load-bearing equipment, and a hydraulic buffer that stabilises the rate of fire and reduces felt recoil. In addition, a new assembly integrates the adjustable height bipod into the shape of the handguard; the ergonomically-shaped cocking handle gives the user a better grip with the strong or weak hand, and an improved feed tray with belt retaining pawls that hold the belt correctly in position during the loading procedure. In addition there is a range of optional extras, including a heatshield that reduces the risk of inadvertently touching the barrel, and FN MINIMI® 7.62 can be converted to 5.56x45mm ammunition.

Dantherm keep their cool

Dantherm, one of the market-leading suppliers of energy-efficient climate control solutions, will be launching the HX-M100 energy saving ventilation unit for containers at DSEI 2015. The HX-M100 is designed to reduce the operating cost of climate-conditioned containers. By treating ambient fresh air before it enters the internal side of a container, the unit can save up to 50% of the power consumption used to control the climate inside the container. The unit has an operating range up to 60°C, a G4 filter fitted as standard and a simple user interface for adjusting the fresh air volume.

In addition to the HX-M100, Dantherm will also exhibit the AC-M5 MKII air conditioner for container cooling, and the AC-M18 air conditioner for tent cooling. The AC-M18 is designed for temporary or transportable buildings or tents, with ducted supply and return air. A dual filtration system is available for field hospitals where the need for filtration is higher. The unit is ideal for accommodation tents, military camps, relief camps, and is protected against corrosion with a minimum 80µm top coat, in a standard sand colour.

Avon advance with the FM53

Avon Protection have launched their FM53 multi-role Respiratory Protective Equipment (RPE) System, which has been developed specifically to address the multiple threats encountered on the modern battlefield, war on terrorism and peace keeping operations. The FM53 provides protection against traditional chemical and biological warfare agents and select toxic industrial materials (TIMs), functioning in both negative and positive pressure modes (APR, SCBA, CCBA and PAPR). The unit's mode can be switched from positive to negative pressure without loss of protection through removal of the VPU (Voice Protection Unit), which provides clear communications whilst wearing the mask through its internal microphone.

The unique chlorobutyl/silicone blend material on the FM53's face piece provides a better seal and is more comfortable to wear for extended periods, and a superior cheek-to-stock weld for weapons integration. It is available in four sizes for customised protection for all operators. The panoramic eye lens minimises visual stress and maximises field of view, providing ballistic protection and scratch resistance - and removable outserts can be added to provide additional ballistic protection, comfortable operation in sunlight and blue light filtration for sharper sighting.



Leidos: Supporting the UK Government



BG (Ret) Barbara Doornink became Managing Director of Leidos Europe, Ltd in April 2015 after the contract award of Logistics Commodities and Services (Transformation) for the UK Ministry of Defence. This is a 13 year contract that provides for procurement and inventory management of common commodity items, storage and distribution for all MOD 'non-explosive' stock items, and the development and operation of the Support Chain Integration Platform.

BG (Ret) Doornink first joined Leidos (formerly Science Applications International Corporation), in September of 2005 as Vice President, Division Manager in the Logistics and Engineering Solutions Business Unit. The challenges associated with bringing integrated solutions for logistics to the Department of Defense (DoD) customer base as well as the opportunity to support the logistics and fielding for BCTM; support to US DOT and DLA were based in her division. A major contract in her division is the Joint Logistics Integration (JLI) support to Mine Resistant Ambush Protected (MRAP) Program.

With extensive experience in supply chain support, surface deployment of US forces to Afghanistan and Iraq, and commanding the DLA Defense Distribution Center, alongside a BA in Political Science and Masters in both Information Systems Management and National Resource Management, BG (Ret) Doornink was inducted into the DLA Hall of Fame in 2007 for her major contributions to the Defense Distribution Center and the nation's security.

What will you be demonstrating at DSEI?

Leidos plans to demonstrate a wide-spectrum of innovative capabilities and technologies that are currently supporting the UK government and customers across the globe, today and tomorrow. Through new opportunities and programmes, and our existing work, we will continue to prove our commitment to improving lives and protecting the world from physical and digital threats.

Who do you hope to meet at DSEI?

At DSEI, we look forward to meeting with our customers and meeting potential customers, as well as partners and senior international military staff, major procurement officials, and other industry leaders.

What new innovative technologies is Leidos showcasing?

We will showcase a spectrum of innovative technologies. These include integrated tactical solutions for the tactical operator, such as technologies that develop and integrate systems for processing, storage, retrieval, and dissemination of data to make it highly usable for exploitation, analysis, and security at the tactical level.

We will also demonstrate safety and security products that have incredibly precise scanning technology and are currently in use in the UK to enhance safety in transportation, military, emergency response and other applications.

Stopping the damage of cyber attacks is a global imperative. Our advanced

cybersecurity solutions can help network operators to see beyond their boundaries, increase response time, and stop the threats before the damage is done.

We are also showcasing the logistic solution that will support the UK MOD's Logistic Commodities & Services Transformation (LCS[T]) programme, recently awarded by the MOD, a critical effort to enhance and improve the UK's defence supply chain.

Is DSEI a global platform for your business?

Yes - our goal is to make the world a better, safer place with innovative technology and new perspectives and insights, and DSEI is the perfect global platform for us to increase our exposure and awareness across different countries, in one location and venue.

What do you hope to get out of the event?

We hope to continue to build our brand awareness and reputation, strengthen our relationships with our customers, grow our footprint in the UK and establish new relationships that will lead to new opportunities and work.

How do Leidos' capabilities reflect the changing nature of defence and security and new challenges?

Our capabilities reflect the increased demand to provide advanced and innovative solutions, products and services to help solve the toughest challenge areas across the defence and security industry, with the necessity to get the job done.



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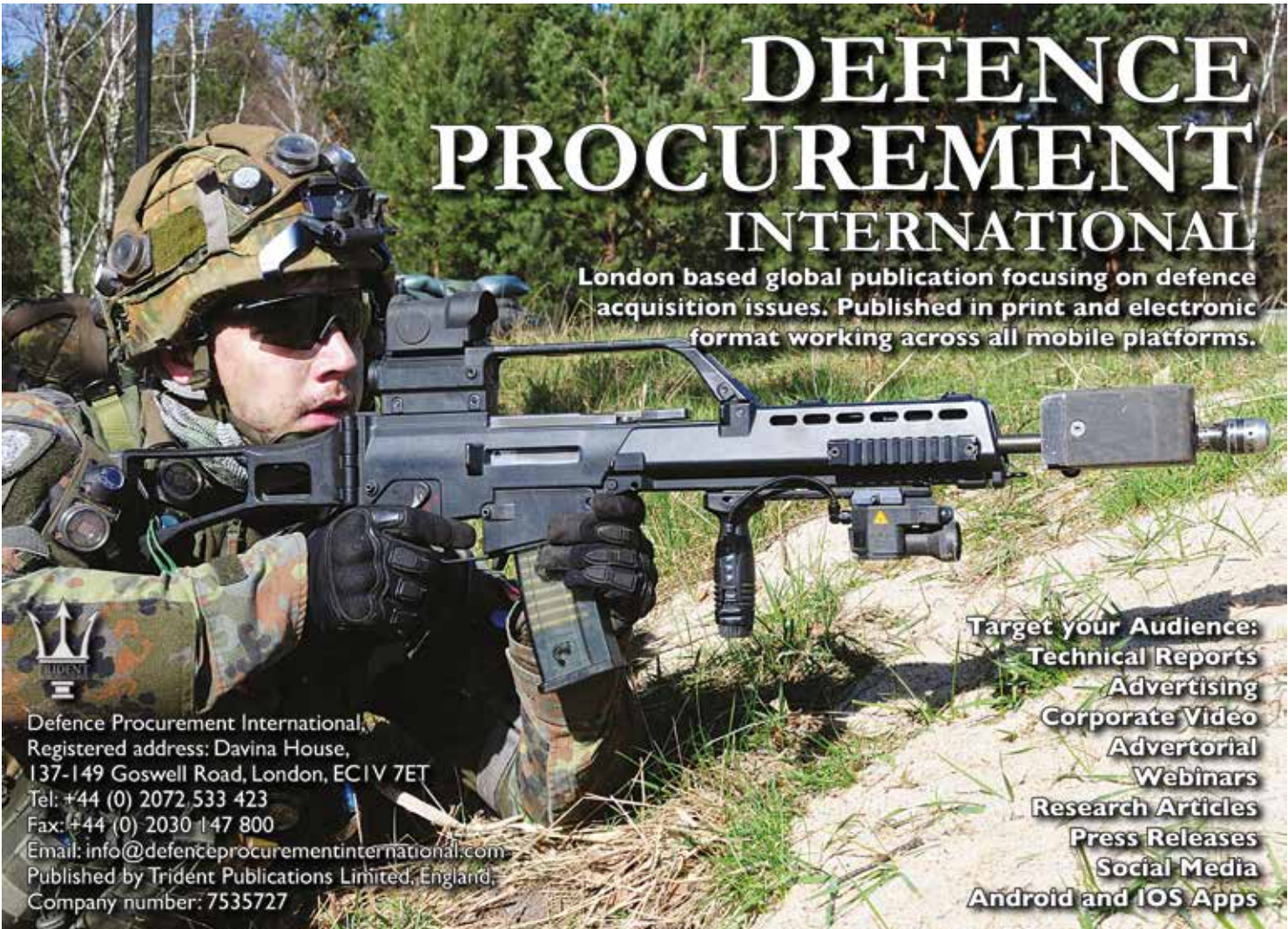
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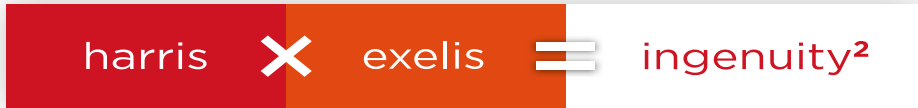
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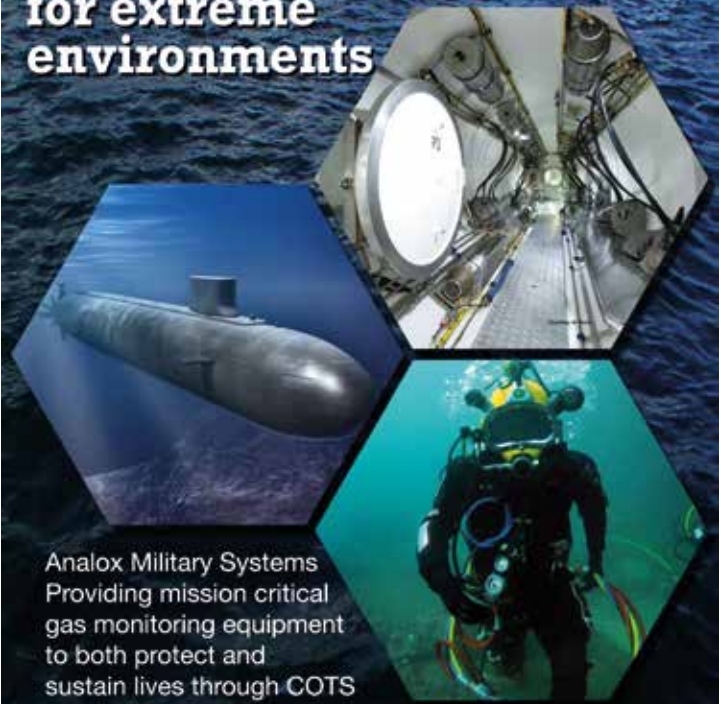


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