

INSIDE DSEI

News, views and insight from the award winning DSEI

Issue 8 / June 2015

www.dsei.co.uk

DSEI

15 - 18 September 2015

The World Leading
Defence & Security Event

ExCeL, London www.DSEI.co.uk

What's New

GLOBAL PARTNERSHIPS

New theatre launches to host briefings by leading experts

INTERNATIONAL PAVILIONS

Focus on Turkey, U.S. and Malaysia

DEBUT EXHIBITORS

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Welcome to the eighth issue of **INSIDE DSEI**



Issue 8 / June 2015

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Inside DSEI brings you the latest news from the defence and security industry, offering focused feature areas, product launches and updates. This issue also offers the opportunity to look ahead to September's DSEI and the importance of such an international event in what is set to be a crossroads year for the global defence and security industry.

In this issue we focus on some new additions to the event, including the Global Partnerships Theatre, the Ebola Learning Exploitation Conference, and the SME Showcase. There is a feature exploring some of the International Pavilions, and the Product Focus pages in this issue look at key sectors including: Night Vision & Imaging, Medical & Medivac and Communications.

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Record number of first-time exhibitors



It gives me great pleasure to welcome you to this edition of Inside DSEI and to have the opportunity to update you on some of the important developments that will help to make DSEI 2015 the best event yet.

DSEI is a valuable forum for learning, not just about the latest products, systems, technologies and services, but also about world markets and how to access them. This year we are launching the Global Partnerships Theatre which throughout DSEI will host briefings by leading experts on key markets - established and emerging - and how to do business there. The regions concerned are Africa, Asia Pacific, Europe, Latin America, Middle East and North America. On the last day of DSEI the theatres will stage events focused on small and medium enterprises and apprentices.

Still on the international front, joining 40 other countries, Lithuania, Latvia, Poland, Malaysia and Greece will be mounting international pavilions for the first time at DSEI.

The UK Armed Forces will again have a major presence, bringing high level decision makers from the procurement and operational communities to the event. Their plans include a Royal Air Force Air Capability Industry Day. The aerospace dimension of DSEI has grown strongly in recent years, with leading prime contractors and their supply chain members using the event as a platform to reach international markets.

Security is another growth area: this year the Security and Special Forces Zone will be bigger than in 2013 and include a cyber security zone, reflecting the paramount importance of countering the cyber threat. A record number of first-time exhibitors will be showcasing their capabilities covering a broad spectrum of security and counter terrorism disciplines.

While maintaining its strong focus on its 'four pillars' - aerospace, land systems, maritime and security - DSEI continues to spotlight significant new areas of capability. Launched at the last DSEI in 2013, the Medical Innovation Zone will feature products and technologies with applications in humanitarian as well as military domains. A highly topical medical issue, exploiting the learnings from the Ebola outbreak, will be the subject of a high level strategic conference to be held in ExCeL London on Day One of DSEI, Tuesday 15 September.

I look forward to bringing you more news about DSEI in the coming weeks.

Duncan Reid
DSEI Event Director

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A window on future developments

Companies of all sizes will present their solutions for a broad range of requirements in the DSEI Land Zone.

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

close relationship with its industrial partners, seeking out innovative and relevant solutions as part of the DGP and exploiting mutually beneficial agendas to defeat those who threaten our security."

The exhibitor list for land systems features companies involved in the heartland of MOD programmes, including Lockheed Martin, which is currently delivering upgrades and enhancements as part of the Warrior Capability Sustainment Programme and will deliver nearly 500 vehicles from 2016-17 onwards.

Other major companies exhibiting include BAE Systems, Denel, GD, Iveco, Jankel, Nexter, Patria, Raytheon, Streit and Supacat as well as a number of SMEs who will be able to display their innovations on a global platform.

Confirmed Exhibitors in the Zone include:

- Aeroglow
- Alpha Home
- AMSAFE
- Avon Protection
- Bear Arm
- BETH EL
- British Army
- Cortman
- CS - Force Company
- Davall Gears
- English Braids
- Genquip Groundhog
- HESCO
- HiTek-Ltd
- Isotrex Manufacturing FZE
- JPA Armouring
- Milbrook Proving Ground
- MIRA
- National Army Museum
- Quickbuild
- Spafax Int.
- ST Kinetics
- Steelcore Designs
- Stream Enviro
- Supacat
- Viking Arms
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“Seek out innovative and relevant solutions”

Lt Gen Mark Poffley, OBE, Commander Force Development and Capability, commented, "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



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The full spectrum of maritime defence and security

An impressive international flotilla is just one element in a Zone that takes on fresh importance.

Confirmed Exhibitors in the Zone include:

- Analox Military Systems Ltd
- Cammell Laird Ship repairers & Shipbuilders
- Colfax Fluid Handling
- Delta Power Group
- Griffon Hoverwork
- Hydrasearch
- Juliet Marine Systems, Inc.
- LRAD Corporation
- Marine Specialised Technology
- Paradigm SRP
- Roodberg Trailer
- Royal Navy
- SAPA Extrusion
- Scot Seats Marine
- Seatronics
- Shockwave Seats
- SOS Medical Group
- Stirling Dynamics
- SubSea Craft
- UK Maritime Mission Systems
- Versadock International
- Vestdavit AS

The Obama administration's recent strategic 'pivot' to Asia, away from the Middle East, and the increased naval spending by key players in the region such as Japan and China, has highlighted the continuing relevance of naval forces and the importance of maritime security - not only for this region but throughout the world. It is critical for nations to maintain security over trade and energy supplies.

The Royal Navy's First Sea Lord will host the Maritime Conference at DSEI which will explore the latest strategic

thinking on maritime issues and innovative opportunities for the use of maritime forces.

The Conference will provide an important component of the maritime element of DSEI that will once again include a showcase of prime contractors, technology providers, visiting warships and waterborne demonstrations, in addition to a dedicated seminar theatre. With the facilities available at DSEI, exhibitors will be able to showcase their products, technologies and services in the environment in which they are intended to be used.

“The latest strategic thinking on maritime issues”



Influencing future thinking

This year's Air Zone highlights interconnectivity between different technologies to maximise effectiveness.

Confirmed Exhibitors in the Zone include:

- 2D3 Sensing
- Aero Tec Laboratory
- Air & Marine Products
- ASE
- Copper & Optic Terminations
- Ex-Eltronics
- Helmet Integrated Systems
- IA Technology
- Keysight Technologies UK
- Line-X
- Lyra
- METIS Aerospace
- Mototok International
- MPI Limited
- PPG Aerospace
- Skymasts
- TCM
- The Pandect Group
- Tritech Group
- Wallwork Heat Treatment

The only dedicated defence aerospace forum in the UK, the Air Zone and Static Vehicle Display will be notably enlarged at DSEI 2015. Aircrafts, platforms and other aerospace equipment and technologies are working closer than ever with land and maritime technologies to maximise mission effectiveness.

DSEI 2015 will feature a new capability area dedicated to the aerospace supply chain; a comprehensive seminar programme that will reinforce the event's broader themes of procurement, training, export maximisation and SME support. An outdoor display area will provide the aerospace industry with a forum in which to showcase their latest innovations to current and prospective customers.

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 provides to engage in high-level industry briefings and bilaterals."

Exhibitors offering solutions in the air domain will include SAAB, Northrop Grumman, Lockheed Martin, Airbus, Rafael, Finmeccanica and Rolls Royce.



Following their participation in DSEI 2013, the Royal Air Force will stage an Air Capability Industry Day this year, focusing on themes that will influence the UK's air power in the future.

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Military innovation displaying vital signs

The advances in technology and skills in military medicine has resulted in improving casualty survival rates.

Confirmed Exhibitors in the Zone include:

Celox
Defence Medical Services
Jarvis Manufacturing
Laerdal
Navistar
Phillips
Prometheus
Ryozo

The Medical Innovation Zone is a dedicated showcase featuring the latest industry innovation, alongside seminar content, for medical personnel within the armed forces.

It will provide a forum of presentations, demonstrations and debates that focus on the advances of technology and skills of military medicine that increase survivability within the battlefield; the importance of military assistance within disaster relief and humanitarian situations; and an opportunity to discuss best practice and network with medical personnel from around the world.

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.

“ Important developments continue to take place within military healthcare ”



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 under discussion will be how the military can work alongside civilian organisations in the short and long term since a disaster has been 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.

Widening the scope in security

A record number of first-time exhibitors will be showcasing their equipment in the Security and Special Forces Zone.

Confirmed Exhibitors in the Zone include:

- Barret Communications
- BeaverFit
- Bergans
- Ceia
- DMM
- H.Henriksen REBS
- International Armored Group
- Kowa Optimed Europe Ltd
- RFA Security Services Ltd
- Rolatube Technology
- Taskmasters UK
- The Hacking Team
- Vislink
- Whitby & Company

The Security Zone has more than doubled in size since 2013, and is located at the centre of the hall, underlining its increasing importance for DSEI. Features include a cyber security zone and a dedicated seminar theatre.

A record number of exhibitors 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 and camera equipment and personal protective equipment.

“ Showcasing the latest equipment and technology ”

This year, the seminar programme will address key technological developments, challenges within the security sector including areas such as games science; night vision; fibre-acoustic sensing; and communication attacks. Other areas of discussion will be the increasing movement towards interoperability, and synergies between defence and civilian reflecting the increased co-operation and partnership 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; leading companies will present their responses 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.



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A new element in tactics and strategy

One of the key areas for innovation and discussion at DSEI 2015, the use of unmanned systems in defence and security is set to grow considerably in the future.

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 years and offering visitors the opportunity to see the latest innovations in a dedicated feature area.

(UAVs), and Unmanned Ground Vehicles, and other examples of ground-breaking equipment. Unmanned displays and demonstrations with air, naval and ground applications will take place across the exhibition hall and on the dockside.

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

Confirmed Exhibitors in the Zone include:

- AIE
- Airware
- CES
- DOK-ING
- ELI Military Simulation
- Galleon EC
- HDT Global
- IAT 21
- Linwave Technology
- Milrem
- Northwest UAV
- Planet Ocean
- Reamda
- Rotron Power
- Spectracom
- Velodyne
- Wolfstone



The Unmanned Theatre will host leading companies discussing key topics including non-lethal warfare in the information age, cyber security, interoperability - challenges of tri-service communications, the internet of things, digital warfare and rapid reaction force - improving efficiency. There will be demonstrations of Unmanned Aerial Vehicles

The unmanned content offer will focus on Maritime UAVs, Unmanned Ground Vehicles, Micro UAVs and the regulation of remote-piloted vehicles.

Seeking out new alliances

Joining the existing portfolio of theatres at DSEI, the Global Partnerships Theatre will explore new opportunities for growth.

For 2015, DSEI is introducing a seventh theatre to its world renowned seminar programme. The Global Partnerships Theatre is dedicated to exploring key growth markets, export opportunities and global supply chain best practice, making it an internationally focused platform for SMEs, primes and the military.

Alongside the other six theatres at DSEI, the Global Partnerships Theatre programme will span across the four-day exhibition, each day focusing on a different area: Day One, Europe & North America; Day Two, Latin America, Middle East & Africa; Day Three, Asia Pacific; Day Four, SMEs & Apprentices.

Each day at the theatre will see engaging presentations and panel discussions from international military personnel, key associations and leading figureheads of industry. Topics will range from export control to procurement and acquisition opportunities, through to best practice when doing business in specific countries such as India and Saudi Arabia.

DSEI 2015 will host over 40 international pavilions, with Latvia, Lithuania, Poland, Malaysia and Greece making their debuts and other key players returning, highlighting the event as the place to do business in the global defence and security market. The Global Partnerships Theatre will give visitors and exhibitors the opportunity to network and connect directly through a globally focused programme. It will highlight business opportunities, the best working practices and offer practical advice on how to tackle new markets.

The Global Partnerships Theatre is located in the North Hall next to the U.S. Pavilion.

“DSEI is clearly the place to be if we want to do business worldwide. It's made of customers meeting and incredible new contacts that would not be possible without it.”

Ludovic Le Toquin,
European Marketing Manager,
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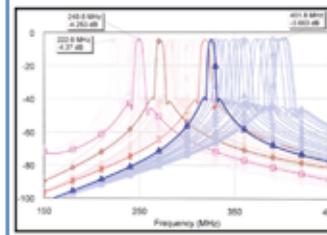
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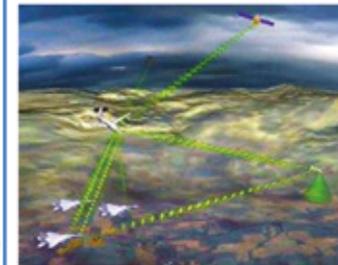
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Centre for Defence Enterprise SME Showcase

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 an introduction to CDE opportunities, before hearing first hand from approximately 12 SMEs, who will briefly introduce their companies and their innovations. The presentations will be followed by a complimentary lunch and further networking opportunities. Presentations will take place on Thursday 17 September.

You will be able to learn more about CDE competitions as well as find out more about 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.

For more details please contact Stephanie Searle at stephanie.searle@clarionevents.com.

The Centre for Defence Enterprise SME Showcase will take place on Thursday 17 September, in the West Theatre.

New high-level conference to review Ebola response

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.

Building on the success of the Strategic Conferences in 2013, DSEI 2015 will stage four new high-level conferences, one of which focuses on the lessons learnt from the recent Ebola epidemic.

The keynote speech by Dr Jennifer Cole, Senior Research Fellow from the Royal United Services

Institute (RUSI) 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.

The Ebola Learning Exploitation Conference is part of the DSEI 2015 Strategic Conferences, and will take place on Tuesday 15 September, from 10am to 5.30pm. Attendees to the Ebola Learning Exploitation Conference may also be interested in visiting the Medical Innovation Zone, where DSEI 2015 will host a Medical Innovation seminar theatre.

Registration is now live at www.dsei.co.uk/registration.



U.S. Pavilion and the support of Commerce



The United States Commercial Service (USCS) has joined forces once again with Clarion Events to promote opportunities for U.S. companies to feature in the dedicated international pavilion at DSEI. The USCS is the promotion arm of the U.S. Department of Commerce's International Trade Administration in charge of fostering trade. The USCS supports American businesses with integrated governmental and trade promotion activities from 128 commercial offices located in U.S. Embassies and Consulates in more than 75 countries, providing services such as market intelligence, advocacy and commercial diplomacy.

Opening a European and global business gateway is a key opportunity for U.S. security and defence companies and the U.S. Pavilion will provide an ideal platform at DSEI 2015. Given encouraging signs of a recovering U.S. defence sector, there is no doubt that DSEI 2015 will offer unique networking opportunities with the many international visitors that will be in attendance. DSEI provides an unsurpassed forum for networking, cultivating relationships, and presenting technologies to key decision-

makers in the military, defence and security markets.

Paul Menner, a Commercial Specialist for the defence, aerospace and transportation sectors at the U.S. Embassy, said, "The partnership between Clarion Events and the U.S. Commercial Service proved to be a great success at DSEI 2013.

"This year's DSEI is shaping up to be the best yet, and if you are in the defence and security business, it is an event that you do not want to miss."

U.S. Commercial Service Defence and Security Specialists were able to provide one-on-one counselling to U.S. exhibitors who were looking to expand their market share and increase their global exports. The Specialists were also able to provide market research and make introductions to key business contacts. Looking forward to DSEI 2015, the partnership between Clarion Events and the U.S. Commercial Service will expand. This year we will be centring our efforts on facilitating pre-scheduled business-to-business meetings

between U.S. exhibitors and defence officials, other exhibitors and show visitors. We will also be increasing our export education at this year's Show by holding a series of industry-led briefings on how best to engage within the prime contractor supply chain. This year's DSEI is shaping up to be the best yet, and if you are in the defence and security business, it is an event that you do not want to miss."

DSEI has featured a U.S. Pavilion for seven editions and this year it is set to increase in size again, plus major U.S. companies exhibiting elsewhere in the halls. The entire U.S. defence and security supply chain will be represented by exhibitors including: Lockheed Martin, Northrop Grumman, General Dynamics, L-3 and Boeing, Aerojet, Datron, Exelis, ITT Corp, Polaris Industries, Revision Military, Ultralife and US Ordinance. DSEI 2015 has also attracted a number of first-time exhibitors. These include RGB Spectrum, DSS NA, CAST Perimeter Lighting, Research Electronics International, Trident Research, Meritor, and Navistar (who are returning to the show as a supporting sponsor of the Medical Innovation Zone).



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DSEI 2015 to showcase key defence capabilities for Asian markets

The platform, systems and technology suppliers exhibiting this September at DSEI have solutions that meet the needs of major procurement programmes being staged by Asian nations.

This fact is evidenced by Malaysia, where the Army has plans for new light observation helicopters, together with light attack and transport models. DSEI 2015 exhibitors include AgustaWestland, which has seen worldwide success with its AW139 light utility helicopter, as well as its AW159 naval helicopter and AW101 heavy support helicopter. Also exhibiting is Boeing, manufacturer of the Chinook heavylift and Apache attack helicopters.

Malaysia regularly contributes to UN peacekeeping missions and is developing its expeditionary forces. The Malaysian Government is committed not only to the acquisition of new assets but also realising the maximum return on existing ones, stressing the need for backwards compatibility with existing equipment and an evolutionary approach to growth. Consequently support, maintenance and upgrade programmes are a priority.

A programme is also underway to build 250 8x8 Armoured Personnel Carriers. This programme will be extended, providing opportunities for additional sub-suppliers. Leading armoured fighting vehicle (AFV) primes contractors, such as BAE Systems, General Dynamics and Iveco will all be exhibiting at DSEI 2015, all having experience in both wheeled and tracked AFVs. Armament producers at DSEI will include CTA International, which designs and manufactures the revolutionary 40mm case-telescoped ammunition cannon for the British and French armies, and Nexter Systems, which produces cannons and light turrets for a wide range of users.

In the maritime sector, the procurement and production of a second batch of frigates is in progress, but there are requirements for smaller OPVs, as well as auxiliaries. Options for supply chain and sub-systems in all of these projects are open to suppliers.

“The Malaysian Government is committed not only to the acquisition of new assets but also realising the maximum return on existing ones”

BAE Systems, on the back of a recent order for offshore patrol vessels (OPV) from the UK Royal Navy, is looking to maximise its export options in this class area, while ROK based Daewoo Shipbuilding and Marine Engineering will be showcasing its growing successes in naval design and manufacture. This includes the supply of corvettes, frigates and submarines to customer nations around Asia.

DSEI Event Director Duncan Reid said, “DSEI continues to grow year on year in terms of both exhibitors and visitors. The importance that senior procurement and operational decision makers from Asian nations attach to DSEI underlines the fact that this is a truly international forum for defence and security”.

Confirmed International Pavilions

-  Australia
-  Austria
-  Belgium
-  Brazil
-  Bulgaria
-  Canada
-  Chile
-  Czech Republic
-  Denmark
-  EDEN (industrial cluster of companies from France)
-  Estonia
-  Finland
-  France
-  Germany
-  Greece
-  Holland
-  India
-  Israel
-  Italy
-  Japan
-  Jordan
-  Latvia
-  Lithuania
-  Malaysia
-  Norway
-  Poland
-  Portugal
-  South Africa
-  South Korea
-  Spain
-  Sweden
-  Switzerland
-  Turkey
-  UK
-  U.S.



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Have you registered?

With DSEI 2015 just a few months away, it's time to make sure you have completed your registration.

Registration for DSEI 2015 is now live, and until 30 June, it is possible to register at the lowest rate available of £30 + VAT. From 1 July, the rate will increase, and then continue to rise towards the start of the event, so it really pays to book your ticket early.

Registering in advance will aid the verification process. DSEI is a secure event, so all registrations must be verified and this procedure will be thorough. If you leave your registering late, it is possible that there will be some confusion over your registration status.

“It pays to book your registration early”

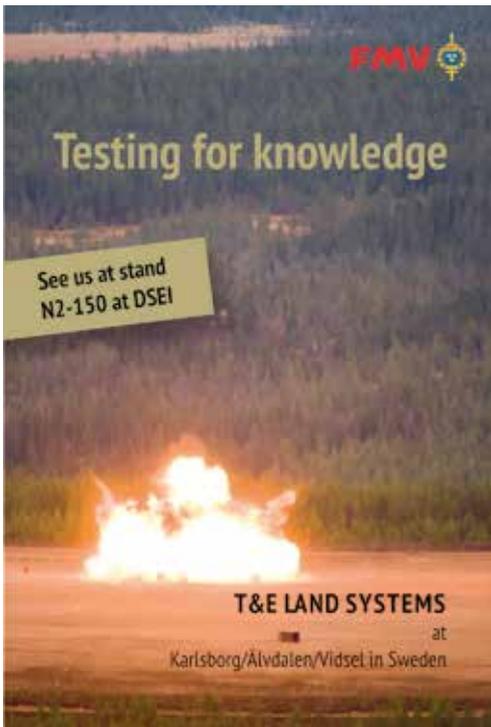
Another benefit of early registration is that you have first pick on booking a meeting room at ExCeL or the DSEI dining room to host your functions, so make sure you have the space you need for any event you might host.

The new DSEI Community, due to go live soon, enables registered visitors to book in meetings with exhibitors; early registration means that you will have a wider selection of exhibitor and a better choice of time.

As well as registering early, you can arrange your travel plans ahead of time by taking advantage of the preferential rates offered by DSEI's Concierge Service, Zibrant. To make your DSEI 2015 experience run smoothly, Zibrant have selected different facilities that you may need during your stay in London. These recommendations range from accommodation to theatre bookings, Oyster cards and mobile phone rental.

You can view all of Zibrant's services by visiting www.dsei.co.uk/DSEI-Concierge or email dsei@zibrant.com for more information.

With all the benefits for early registration, it makes sense to book yourself in early so make sure you visit www.dsei.co.uk/registration today.

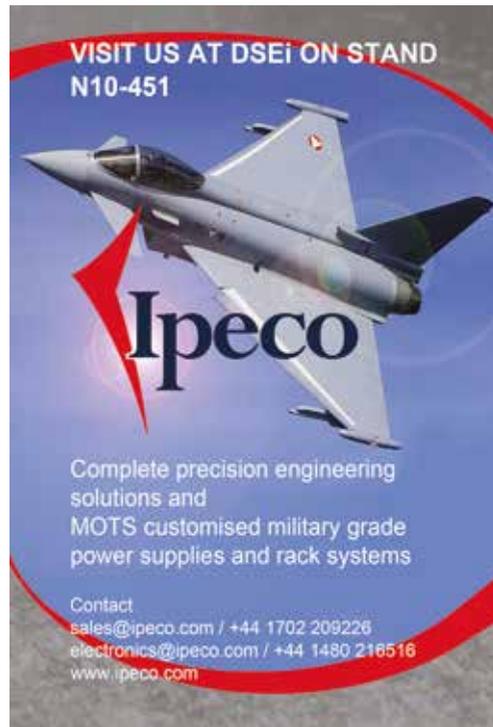


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Wireless electronic locking solution

Abloy have recently launched Optima, a wireless, electronic, ready-to-use locking solution for easy and effective access management. The wireless connectivity and the remote system is simple to install and does not require re-wiring or on-site refitting. Access rights are easier to manage as programming and re-programming of individual credentials can be done at once. Designed to be compatible with other Abloy locking systems, Optima can also operate with mechanical keys alongside card access. It is available in four different options: Stand Alone, Offline, Update on Card and Wireless.

Ergonomic and stable weapon

Czub will be showcasing their CZ P-07 polymer compact pistol at DSEI 2015. The frame is mechanically and thermally stable glass fibre reinforced polymer, ensuring dimensional stability as well as a resistance to rough handling, mechanical damage and adverse conditions. The Omega trigger mechanism has been retained in this model allowing an easy selection of the safety features of the weapon - the safety levers are ambidextrous and the improved ergonomics of the design mean there are no sharp edges.




LIVE FIRE TESTING & TRAINING

BY LAND

BY SEA

STAND N5-185 USA PAVILION

TRIDENT RESEARCH



Affordable training and testing

Trident Research's mission is to make weapons, crew and forward observer training and testing affordable and simple to use. Trident will be launching a low-cost unmanned surface vehicle (USV), designed to be deployed in an array in broad ocean areas, providing a persistent over-water test range. The accuracy of the USV in delivering quick results will mean faster weapon testing cycle times and will minimise the environmental impact of offshore testing. The cost of the technology means that nations that do not have a significant test-range infrastructure or budget can utilise the instrumentation of Trident Research.

DeltaCore®

TURNING ANY KIND OF WATER INTO DRINKING WATER



STAND N8-274

DeltaCore at DSEI 2015 premiere introduces **WLS700 Mobile Water Purification Station** engineered to deliver outstanding water purification results, with cutting edge technology and a superior level of efficiency and applicability. WLS700 turns microbiologically and chemically affected water source into drinking water. It is the most technologically advanced, reliable, easy to use and cost effective mobile water treatment system on the market.

WATER LIFE SAVER

The WLS 700 is a system of interconnected filters in an easily portable case that can be transported by vehicle or placed manually at the point of use. It is quickly operative and mobile, low weight (77 kgs) and low energy consumption. The system is built to work in remote areas, extreme conditions and can use different power sources. It provides high quality drinking water in a second without the use of chemicals. The self-cleaning filters ensure unhindered operation even when water sources are very contaminated. The system is able to eliminate all contaminations larger than 0,01 microns from the affected water, while retaining all the minerals. It physically removes pathogens, particulates and turbidity from virtually any water source, including rivers, lakes, streams, ponds, shallow wells and springs.

By using only solar power WLS700 can produce **up to 700 litres** of drinking water from microbiologically and chemically affected water sources in an hour. In emergency situations it can satisfy **daily needs of drinking water for 4.850 people**.

Note: Max. capacity with energy combinations up to **17.000 liters/day**

WLS700 works on various power sources: solar energy / 12-24Vdc - vehicle inlet / 90-270Vac (40-60Hz) - inlet



DeltaCore **WLS700** IS YOUR SOLUTION FOR:

- Disaster response
- Humanitarian aid
- Remote communities
- Remote industry & exploration
- Emergency preparedness
- Military field applications
- Mobile kitchens and hospitals
- Travel expeditions

TESTS AND CERTIFICATIONS

WLS700 was tested for Microbiological and Chemical Effectiveness at the National Laboratory of Health, Environment and Food in Novo mesto, Slovenia (under SISTEN ISO/IEC 17025LP-019). Test reports showed excellent results (virus removal: 99,99%, bacteria removal: 100%, parasite removal: 100%).

NATO Stock Nr.:
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- Self priming pump
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- The system is placed in the PELI case, quick connectors, hoses storage inside,
- Water proof controller disegned to work under extreme conditions

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New family of headset protectors

The MEL Group has recently produced a range of electronic headsets for military and heavy industry use, designed to protect users from damage to their hearing, including temporary and permanent hearing loss and tinnitus. The ConnIE range of level dependent hearing protectors are designed to improve situational awareness while reducing the effects of harmful noise levels in extreme environments such as airfields and battlefields. Digital ambient sound enhancement ensures essential communication can be achieved while excluding harmful noise. This allows service personnel and workers to continue with their jobs while severe background noise persists. Manufactured in Britain, the ConnIE SA1 headset is the first product in what will be a family of headset protectors.

Fresh military apparel from Tactical Gear

707 Tactical Gear, Inc will be launching a new line of lightweight military boots, performance polo shirts, and belts in the forthcoming months. Recent additions to the range include seven different models of US-made Cordura upper boots, a tactical shirt (patent pending) and lightweight T-shirts. 707 Tactical Gear is dedicated to designing and manufacturing innovative and advanced tactical and military apparel and footwear. It can design specific products according to request and manufactures them out of US-made materials. Based in Miami, 707 Tactical Gear are planning to open a new distribution centre in their native city.

Innovative rotary engine design

AIE (Advanced Innovative Engineering) is an engineering company based on the outskirts of Birmingham, England, specialising in the development of innovative UAV rotary engine and wing technologies. They have recently launched the 40hp 225CS Wankel-type rotary engine for tactical, medium unmanned aerial vehicles. It has been designed to operate for extended periods of time in demanding environments and integrates the patented Compact SPARCS liquid cooling system. AIE produce other sizes of engine, including the compact 40S - 5BHP Wankel rotary engine which at 2kg has a high power-to-weight ratio and is therefore ideal for small unmanned vehicles and as a range extenders for electric vehicles. Other variants of the Wankel-type rotary engines will be made available later in 2015, including the 20hp 125CS and the 120hp 650CS engines.



Keeping contents waterproof

Plastica Panaro will be launching four new waterproof accessory boxes in the MAXgrip series, which are certified in accordance with the IP67 testing parameters and are able to be submerged under one metre of water for up to 30 minutes. Originally designed to hold fishing gear, these boxes are suitable for a wide array of sectors and applications and can be used to contain all sorts of equipment in different environments. The MAXgrip series offer protection from water, dust and impacts as they are built to be shockproof as well. Plastica Panaro have also recently brought out the MAX1100, the new waterproof and dustproof gun case which measures 1177mm x 450mm x 158 mm high.



Helping your risk management

Harquebus Ltd are consultants for risk management and crisis management, and intelligence and security training, with broad experience at governmental, multinational and national agency level. They consider crisis management to be essential to any organisation from government level down, and should include regular reviews of plans and procedures. Constructing an effective strategy with relevant and tested plans to handle a crisis event will improve recovery, mitigate damage and preserve life, infrastructure and reputation. Harquebus implements tailored intelligence and security measures to influence and control their clients' operating environments.

Flexible and protective bomb disposal suit

Morgan Advanced Materials will be launching the new Silverback 4020 bomb disposal suit at DSEI 2015. Currently re-branding from Ergotec, the Silverback 4020 is described as the world's most flexible high protection bomb disposal suit and features a range of new patented technologies. Its lightweight ergonomic construction provides the user with the vital operational flexibility for EOD assignments including crouching and climbing. The quick release technology means that the suit can be removed by the user in less than 20 seconds, without compromising protection. The textile components of the suit combines specialist materials with leading engineering to provide the highest levels of protection, with seams constructed to resist both ruptures and blasts and the Meta-aramid outer skin providing water resistance and fire protection. The streamlined helmet integrates scratch resistant glass, a built-in heated visor and a balanced battery pack to provide the user with unrestricted vision and high-level protection.



Mobile water treatment unit

Deltacore WLS700 Mobile Water Purification Station is described as “the most technologically advanced, reliable, easy to use and cost effective mobile water treatment system on the market.” It can be used for disaster response and humanitarian aid; in remote communities and remote industry and exploration; mobile kitchens and hospitals; and military field applications. By using only solar power, the WLS700 can produce 700 litres of drinking water per hour from microbiologically and chemically affected water sources – without the use of chemicals. In emergency situations, this means that nearly 5,000 people can be provided with their daily drinking water.



New RWS Tower from NonLethal

NonLethal Technologies have made a new RWS Tower configuration for mounting their 38mm IronFist™ and 40mm Cobra40™ weapon systems on Remote Weapon Stations as a less lethal complement to weapons such as the M2HB and M249 machine guns. This added firepower gives Special Operations or Military Police units the ability to face threats in urban operations with one weapons platform. The 38mm IronFist™ vertical towers can fire CS, Impact or White Smoke munitions up to a range of 150m, and the 40mm Cobra40™ vertical towers can fire any low velocity HE rounds up to 400m.



Lockable weapon bracket

Toci Production & Engineering, an Estonian manufacturer of profiled and sheet metal products for the engineering industry, has recently launched the new lockable Weapon Bracket, designed for securing firearms inside vehicles, ATVs and boats. This design of weapon bracket was developed in collaboration with Norwegian Armed Forces, to safely secure both new and older firearms to armoured and non-armoured vehicles, heavy equipment and vessels. The rear bracket is a locking clamp and the front bracket is designed for mounting all types of weapons – so the brackets can be used with firearms of different lengths.



Stuart Caldecourt,
Chairman &
Managing Director,
Wavestore

Wavestore wins two Queen’s Awards

Wavestore, a UK manufacturer of open platform video recording and management solutions, has been presented with two Queen’s Awards for Enterprise, for both International Trade and Innovation. The accolades are awarded to organisations with outstanding performance in international trade, innovation and sustainable development. Wavestore won the Queen’s Award for Innovation for its open platform, scalable and future proof Video Management Software (VMS), which is designed to bring together audio, data, video, and images from the ‘any source’ up to the latest ultra-high definition and 360° fish-eye cameras. This makes integration between disparate third-party technologies simple, unlocking a host of business intelligence and operational benefits to create a much more powerful and effective total security solution. The Queen’s Award for International Trade was awarded after Wavestore achieved a 323% growth in export earnings over the past three years. “We are immensely proud to be recognised with two Queen’s Awards which reflect the hard work and ingenuity of all those who work at Wavestore,” said Stuart Caldecourt, Chairman & Managing Director of Wavestore.

Esterline acquire Barco Aerospace

Esterline has announced its recent acquisition of the aerospace and defence display business of Barco N.V. and both companies will be represented on their own stands at DSEI 2015. Esterline Corporation is an aerospace and defence industry manufacturer that specialises in three core areas: avionics & controls, sensors & systems, and advanced materials. Curtis Reusser, the CEO of Esterline said the acquisition of strategic Barco product lines adds “improved market strength and global coverage as well as key capabilities in an important complementary product category”. Barco’s visualisation solutions utilise world-class display technologies for a variety of demanding applications and the sale of its defence and aerospace division is part of its strategy to streamline its business portfolio.

Eco friendly bore cleaning



TCM Gun Cleaners will be launching their Solventless Tank & Artillery Bore Cleaning System this year, a new device designed to replace the conventional artillery cleaning systems currently available. This environmentally friendly system boasts no hazardous waste, no residue or mess, and no recycling of used chemicals. It uses silicon-carbide grit impregnated on a nylon bristle brush to clean the bore in less time, with fewer personnel using less expendable materials at a quarter of the cost of a typical proving-ground cleaning process, and covers all calibres from .50 Cal to 215mm.

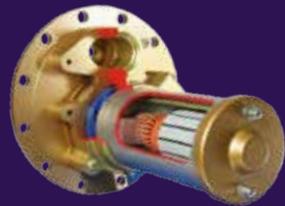


New DDU delivers at speed

This year sees Subseacraft launch a new type of surface/subsurface diver delivery craft - the DDU, which can cross the surface at speed and then transition to a submersible craft offering speed, depth, payload capacity, distance and stealth. A wide range of modular systems and accessories are available, which means the DDU is reconfigurable for a variety of roles including covert submerged surveillance, customs and drug enforcement, anti-piracy missions and homeland security. The DDU is deployable from a surface ship, using a crane, davit, a-frame or moon pool; from fixed-wing platforms using low-height / velocity extraction; or under-slung from a medium-lift helicopter. A patented hull configuration provides inherent stability both on the surface and sub-surface.

Rapid 3D prototypes

Founded in 1971, Malcolm Nicholls Ltd (MNL) has established itself as one of the most prestigious rapid prototyping companies in Europe. MNL offers concept models through to fully operational working prototypes, utilising hi-tech methods coupled with traditional skills. This year, they will be adding 3D printing machines to create extra capacity and faster response times. They have created a range of aerospace models, including sections from a Jet Trainer for an aircraft manufacturer and recently completed a 6ft model of a Type 45 Destroyer.



High power microwave modules



TMD Technologies are making further developments in solid state microwave power modules (MPMs), and high power density TWT-based MPMs; particularly in higher frequencies up to Ka band. The PTXM range of Travelling Wave-Tube (TWT)-based MPMs are being developed to respond to the requirements of the Defence and Aerospace markets for higher frequency and power in the smallest and lightest package possible - requirements that are especially important for UAV environments. The PTS6900 solid state MPM provides high power and performance for EW applications in the 2-6GHz range and is also ITAR free.

Portable water purification system

Water-Gen, a pioneer in air-to-water technology and a leader in water purification across the globe has announced the launch of Spring, its portable, battery operated, water purification system, for civil use. Spring provides safe and readily available drinking water in off-grid locations where no pure drinking water or electricity supply are available. The system can provide safe and clean water supply for an entire village, filtering 100 litres per hour, working during the day and recharging the battery overnight. It can filter any water source, including agricultural irrigation (usually drain water), ponds and rivers.



New actuators and Hexapod

Olsen Actuation have recently launched their Subsea Electric Linear and Rotary Actuators, available in either stainless or Monel, and rated 300Bar. The linear actuators offer up to 55kN, and the rotary actuators up to 40kNm, underlining the market's move away from hydraulic systems to all electric to reduce maintenance issues and improve flexibility in terms of control. Olsen are also planning to launch their new motion platform, the 6DOF Hexapod, which will be used in simulators. The Hexapod's rotary turret allows much better yaw simulation for use in helicopter applications.

Deployable localisation systems

Microflow AVISA is a Dutch company which develops accurate and reliable gunshot and artillery localisation systems based on its Acoustic Particle Velocity Sensor Technology. Its core product is the Acoustic Multi-Mission Sensor (AMMS), which can be deployed on all sorts of carrying platforms, such as unattended ground sensors, vehicles, helicopters and unmanned aerial vehicles (UAV). Their latest developments will be shown at DSEI 2015, including the first Acoustic UAV payload which automatically locates artillery and sniper fire positions, a Forward-Flown AMMS and a Vehicle-based AMMS (V-AMMS) which has already been fielded with Dutch Special Forces.





Detecting snipers

Cilas has developed a pre-shot sniper detector, the SLD500, to protect critical infrastructure or sensitive areas such as military bases, government buildings, troops or VIPs. The system sends an invisible laser beam that detects and locates the sniper's rifle scope before he shoots, and can also detect any kind of optical device such as scopes or camera lenses. The system can be operator-controlled or set to full automatic detection for 24/7 surveillance with video recording and pictures. When a threat is detected, the SLD500 will provide the anti-sniping team with the GPS position and exact distance immediately.

Lightweight thermal imaging



Miltech will be exhibiting their thermal imaging aiming devices at DSEI 2015. They have developed the MLT-IRS-35, a lightweight, rugged thermal weapon sight for tactical operation day or night, in clear or obscured atmospheric conditions such as dust, fog, rain or smoke. The sight incorporates a state of the art Gen. III shutter-less infrared sensor able to detect heat-emitting bodies in the distance; it can detect a human at 1,000m away, and a tank at 5km.

Next generation of RAPSTAR

Wilcox has recently introduced the RAPSTAR-Saber (RAPSTAR-S™), the next generation in laser rangefinder technology. Retaining the proven technology of the original RAPSTAR system, the RAPSTAR-S features an applied ballistic solver for precise accuracy at extremely long ranges. The solver measures temperature, pressure, humidity, inclination, cant, heading to the target, and GPS coordinates; by using these sensor readings and over 400 custom measured bullet drag curves, the solver is capable of producing ballistic solutions that are accurate with 0.1 mils through the subsonic range of the bullet's flight.



Flexible camera installation

Revader Security's rapid re-deployable units remove the need for specialist installation, planning, training or even mains power, by combining the latest in high-quality imaging, edge storage and wireless 3G & 4G transmission. The video footage from the networked products can be remotely monitored on a Windows PC, tablet or smart phone and downloaded in high resolution for evidence purposes. The Revader product range is designed and manufactured to elite defence-level specifications - ballistics and vandal resistant, the products can function in any weather condition and even perform when fully submerged in water.



Omnisense launch new system

Based in Singapore, Omnisense Systems develop, manufacture and market advanced night vision, remote sensing and motion control systems for industrial, commercial and law enforcement applications. At DSEI 2015, they will launch their Marine Surveillance System, having recently released Ulysses II and Proteus Night Vision Systems, alongside the Sentinel Black day/night marine surveillance, which is a versatile multi-sensor thermal imaging system for marine deployment. The Sentinel not only delivers high resolution and crisp visual capability in all lighting conditions, but also the essential element of crew situational awareness.

Night vision compatible displays

Cevians, who have recently acquired the Optical Products and Displays divisions of Wamco plc, will be expanding their product offering of Permanent Night Vision solutions to the most common commercial handheld devices. Recently they have released a series of standard Night Vision-compatible TFT LCDs (Thin Film Transistor Liquid Crystal Displays) based on a unique dual mode backlight - a display that has two separate backlight systems in one display module; a high-brightness LCD that is sunlight readable and one used in dark environments that require the light to be filtered.





Combat life saving kit from Tacprogear

Tacprogear have recently launched two new product lines: Tactical Luxury, and Medical in their new BLACK division of American-made tactical gear and equipment. The Tactical Luxury line is designed for those who want the highest quality materials in military inspired travel products, from an Eyewear Case to Travel Kit. The Medical Line includes the CLS (Combat Life Saving) Bag System that includes a comprehensive range of medical supplies and sits alongside the range of existing Tacprogear Medical products. Another recent product line from Tacprogear has been the American-made Body Armour, which includes the ballistic shield, a range of rifle plates, and plate carrier vests.



Strong, stowable stretcher

QC have designed and built solutions for the British military for over 60 years. Their latest innovation is the range of Fibrelight stretchers. The Fibrelight 2 Section stretcher is lightweight, yet forms a rigid spinal support when deployed. Given its size, it can be stowed in a small space (such as the back of a car), and carried over a shoulder to the scene of an emergency. The snap-together construction allows assembly in less than ten seconds, and is fully adjustable for height. The Fibrelight 4 Section stretcher is even more compact, and can be carried within a backpack - or outside it. These stretchers will securely contain a casualty for a horizontal lift, and can carry up to 200kgs.

Virtual reality for field medics

Plextek, one of the largest independent electronics design consultancies in Europe, has recently launched its Immersive Training for Field Medics which uses the virtual reality headset, Oculus Rift. This system can accurately simulate pre-hospital care on the battlefield and allows trainees to negotiate and prioritise clinical needs. Wearing a virtual reality headset, the user can control and see through the eyes of a remote head, or forward facing camera. The result is a fully immersive virtual reality effect that requires a low latency to align the real and virtual worlds; a delay of more than a few tens of milliseconds can significantly degrade the user experience. This allows users to be able to look around with the remote camera mimicking the user's head position to maintain a realistic and immersive visual scene.



New dressing for the medical kit

Medtrade specialise in ground-breaking innovations for woundcare, and their latest product is Silvapro burn dressing, described as the only emergency burn dressing that can be used dry or wet - and in addition, it has antimicrobial properties. Silvapro is a new addition to the military medical first aid kit, and is light and compact to carry in the field.

Getting connected

Paradigm Communications has recently launched the Connect100T, a low-cost, transportable, multi-service terminal developed for use on the Global Xpress service, the global network which provides users with high-speed Ka-Band satellite communications. The Connect100T is easy to assemble and deploy and provides twice the performance of other Global Xpress terminals, at half the cost. Paradigm's range of Global Xpress land terminals are designed specifically for use in tough environments and have been in demand by government, NGO and commercial organisations since shipping began in early 2015.



Robust communications for small crafts

Drumgrange's Diamond Intercom and Radio Combiner System has been developed specifically for use on small, high speed craft and incorporates a user-friendly ergonomic design for single-handed operation in high-speed transit. Diamond provides crew members with independent access to secure and non-secure communication networks, uninterrupted intercom facilities (VOX) and full control of voice-activated communication. The intuitive modular and robust design allows for simple, easy operation in the harshest of conditions and maintenance is straightforward - module replacement can be made with no need for complicated diagnostic equipment. It's an ideal solution for coast guard, small boat patrols and Special Forces.

Rugged routers from Elma



Elma Electronic, the Swiss-based global manufacturer of electronic packaging products for the embedded systems market, is launching a range of rugged routers. This range utilises Cisco's certified rugged, mobile routing

and switching along with the packaging and integration know how of Elma Electronic. As board technology advances there is an increasing demand for smaller processing and routing systems for deployed applications, and so this year they will also release a family of application-ready embedded computers for deployed and rugged applications.



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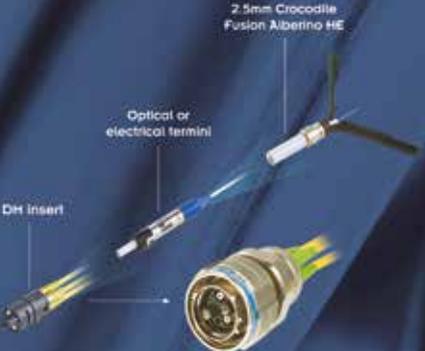
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- LEGACY SYSTEMS REPLACEMENT
- 9-11/9-11 VIRTUALIZATION
- 9-11/9-11 EQUIPMENT
- 9-11/9-11 SUPPORT LOGGING
- 9-11/9-11 ANALYSIS
- 9-11/9-11 REPORTING
- 9-11/9-11 SUPPORT LOGGING



Fibre optics in harsh conditions

Diamond SA, one of the world's leading manufacturers of high-precision fibre optic products, has created the new MIL-38999 fibre optic connector, an efficient, comprehensive and cost-effective solution for connectivity in harsh environmental situations. The MIL-38999 is based on the new Diamond Multipurpose 4 channels insert; this allows customers to assemble precision-engineered optical and electrical termini and offer an easy field termination and repair.

Radio booster

Fern Communications will be launching a new radio system at DSEI 2015, the FRW-1 Radio Repeater, which is designed to dramatically increase radio coverage both on- and off-shore by eliminating radio 'black spots' that wreak havoc with radio signals and interrupt the flow of vital radio communications. By positioning the FRW-1 strategically, communications can be maintained in confined spaces, extreme environments or on large vessels. The new model will sit alongside the FRX-1 Portable Repeater which is already used within the oil and gas industry and was used by Serco when making essential fuel tank and bilge cleaning operations on all Royal Navy vessels. Due to the steel structures of the ships and the confined spaces the crews worked in, radio signals broke down constantly, until the FRX-1 was placed mid-ship and communications between the teams improved greatly.



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FOLLOW OUR STORY:



FAUN TRACKWAY

Leith's: an outstanding catering offer at DSEI 2015

Founded by Prue Leith in 1972, Leith's create imaginative, flexible menus for all types of events, including this year, DSEI.

Leith's are catering DSEI; that's quite a logistical exercise. *Can you give us an idea of the numbers involved?*

We have a team of over 300 chefs, operators and managers, all focused on providing fantastic food and drink which helps exhibitors and visitors to achieve a great event outcome. It's quite a challenge to serve 1,500 exhibitors and 32,000 visitors in a venue the size of 12 football pitches, and one we relish! Our diverse menus and flawless service delivery require precision planning and vast preparation and cooking space. As the main production kitchen is 600m from the furthest point of the exhibition, satellite kitchens are set up

at strategic points to ensure food can be served quickly and at the right temperature.

When you prepare the menu, how much do you consult with the show organiser?

We collaborate closely to meet diverse delegate and exhibitors needs. We work together to agree menu options for each of the show areas, with options developed to ensure that exhibitors and clients will be delighted with the outcome. We jointly showcased an exciting new themed catering concept at the exhibitors' day in March, and 'The Dining Room' lunch menus will be presented by our Head Chef at a

pre-show event in May. It's all about working in partnership with the show organisers, and we look forward to bringing it all together in September, helping to connect people, create new possibilities and achieve a great event outcome.

Are there any special themed menus for DSEI?

New for 2015, the spirit of the show zones will be brought to life through food and drink with three themed bars. Innovative and delicious dishes will be served in a 'cobblers' and real ale bar in the Land Zone, a seafood and Champagne bar in the Naval Zone and a British charcuterie bar in the Air Zone - and if you don't know what a cobbler is, come and find out! For on-stand catering, we love to create bespoke menus to reflect the unique nature of each exhibitor, taking on themes such as innovation, heritage and technology, and embodying the unique culture and lifestyle of their country. 'The Dining Room', a British-themed restaurant, will be serving breakfast, two and three course lunches and afternoon tea, and is ideal for business meetings. We have also created a special



Mediterranean menu which will be served in the Tavern Restaurant at lunch times.

You are catering for a wide range of international delegates. Are there any special requirements you have to consider?

At ExCeL we welcome many thousands of international delegates every year, and this is something that we consider for all large events. We're passionate about using locally sourced produce, but always ensure that the ingredients used meet

specific requirements such as the use of Halal meat, or excluding pork and alcohol.

Do you aim to represent the range of British cooking when catering an international show, or do you try to give delegates a taste of home?

As a London based venue we're proud to present the 'best of British', but also like to give delegates an authentic taste of home. It's their choice, and whatever their preference we're ready to help deliver a fantastic experience.

"It's all about working in partnership with the show organisers, and we look forward to bringing it all together in September, helping to connect people, create new possibilities and achieve a great event outcome."

LEITH'S
EXCEL LONDON

EventShaper

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