ENABLING LETHAL AND NON LETHAL JOINT FIRES IN A COALITION ENVIRONMENT FOR THE NEXT 10 YEARS.....

THIS EVENT IS RUN ALONGSIDE THE DEFENCE SIMULATION EDUCATION & TRAINING CONFERENCE (DSET)
- Attendees get 2 events for the price of one
- Same Venue, Same Time, 2 Streams
- Book one get both

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                  Rockwell Collins

INTEGRATE......EQUIP & TRAIN.......FIND, FIX, UNDERSTAND & STRIKE.
The Conference

The Future Indirect Fires Conference will be held at the M Shed in Bristol on the 23rd & 24th February 2016. The aim of the conference will be to examine the likely development of Joint Lethal & Non Lethal Indirect Fires during the next decade.

In a possible future conflict achieving the greatest possible effect from the fewest possible assets at the lowest possible cost will be a high priority. Efficient and effective integration of Joint and Coalition fires offers an opportunity to achieve greatest effect. During the course of the recent operation in Afghanistan many important Joint Fires lessons were learnt and implemented by the participating nations. It remains unclear how many of these capabilities will be retained within core competencies in the different nations with implications for future coalition capabilities. Furthermore the threat environment is complex with scenarios ranging from Peace Support through Counter Insurgency to High Intensity Conflict.

With an outstanding panel of international Artillery Officers and Industry experts the conference will act as a forum to review best practise for training, integrating and applying indirect fires in the future.

1 Event 2 Conferences:

The Future Indirect Fires Conference will be held in conjunction with DSET (Defence Simulation Education & Training) in the same venue at the same time. There will be two lecture theatres to host each stream and a common exhibition and catering area.

Attendees to either event will have full access to the other stream and may pick & choose which presentations they attend within the single ticket price.

DSET will cover key areas within Simulation, Education & Training, including Procurement, Standards, Training & Education Delivery.

There are many synergies between the DSET objectives and the development of Indirect Fires. Individual, crew and collective training are serious challenges within the world of Joint & Indirect Fires. By collocating these two events we are providing attendees access to both the end user need and the synthetic solutions to those needs.

Who Will/Should Attend?

The Future Indirect Fires conference will be attended by senior officers from the Artillery and Joint Fires organisations of many different nations. It will also be attended by requirements and acquisition officials from the Land Systems divisions on national procurement bodies, as well as senior Military Officers from across the world. Also present will be the senior management of the leading industry contractors providing technological capabilities.

The Event

The conference will follow Omega Conferences & Events tested format, namely 2 days of presentations interspersed with generous breaks to allow private discussion and networking. A buffet lunch will be provided each day as well as morning and afternoon refreshments. There will be a 2 hour networking drinks reception at the end of the first day’s proceedings.

Related Event - Mortar Systems Conference

Omega Conferences & Events also run an international Mortar Systems Conference, which will be held in May 2016 in London. Dates TBD.

We are offering the chance to attend both events at a discounted price. Book & pay for both at the same time and receive a 5% discount on the total price. For details of the Mortar Conference see www.omconf.com.

Venue

The M Shed is located in Bristol City Centre in the old docks area. Bristol Templemeads Station with a mainline connection from London Paddington and Cardiff Airport is nearby. Bristol Airport provides connections to some European destinations.

Address:
The M Shed
Princes Wharf
Wapping Rd
Bristol BS1 4RN

Accommodation:

Accommodation must be organised directly by delegates themselves. There is no accommodation at The M Shed itself. However, the venue is located in the middle of Bristol and ample accommodation can be found nearby. Local hotels can be found on www.yell.com. Type “Hotels” into the product/service box followed by “BS1 4RN” into the location box. A list of local hotels will be shown.

Timings & Registration

Registration will begin at 08:30hrs on Tuesday 23rd February. The conference will conclude by 17:00hrs on Wednesday 24th April.
Lead Sponsors:

**SAAB**
Saab serves the global market with world-leading products, services and solutions ranging from military defence to civil security. Saab has operations and employees on all continents and constantly develops, adopts and improves new technology to meet customers' changing needs. Saab has more than 14,000 employees. Annual sales in 2013 were around SEK 24 billion and research and development corresponded to about 28 percent of annual sales.

Associate Sponsors:

**ROCKWELL COLLINS** is a world leader in the design, manufacture and integration of advanced communications, data links and navigation systems for Armed Forces world-wide. Rockwell Collins also provides precision military targeting and weapon laying systems, and is a market leader in the supply of integrated targeting capabilities. The Rockwell Collins FireStorm Joint Fires system enables Joint Tactical Air Controllers (JTAC) seamlessly to integrate with airborne assets, has seen highly successful operational deployments in both Iraq and Afghanistan and is now providing combat-proven cat 1 targeting capability to the armed forces of a growing number of NATO and allied nations.

**Microflown AVISA**
Microflown AVISA’s mission is to provide a complete 3D acoustic situational awareness by detecting, localizing and classifying the full range of audible battlefield threats, such as:

- Small Arms Fire
- Rockets/Artillery/Mortars
- Engine driven platforms (helicopters, UAVs and ground vehicles)

Enabler is the Microflown, the world’s first and only acoustic sensor that measures acoustic particle velocity instead of the well-known sound pressure. The core product is the Acoustic Multi-Mission Sensor (AMMS), incorporating various directional Microflown sensors, a DSP and a wind cap. An AMMS is passive, cannot be jammed, requires no line of sight (darkness, fog, dust) and also works under adverse weather conditions (heavy rain).

The AMMS is low Size, Weight and Power (low SWaP). Therefore a future artillery acoustic target acquisition system could consist of a mix of AMMSSs, deployed:

- as conventional unattended ground sensors next to the artillery battery
- on multi copters flying the unattended ground sensor to the ground position of a forward observer
- on a fixed wing UAVs circling the area

Such an acoustic target acquisition system is able to work autonomously, but is also able to exchange data with radar systems of optical systems.

Cubic Defence UK Ltd is a subsidiary of Cubic Global Defence. Since 2001 Cubic has delivered for the UK MOD the Area Weapon Effect Simulation system for ground Instrumented Live Training at the British Army Training Unit Suffield (BATUS) Canada, and Defence Training Estate Salisbury Plain (DTE SP).

**Instro Precision Ltd.** based in the UK is a recognised leader for the provision of target acquisition, surveillance and precise distance measurement technologies. Offering both standard and custom solutions to meet particular customer requirements, Instro sensors and sensor support systems combine industry leading technology with field proven reliability, making them the ‘system of choice’ in a number of global markets.

Exhibitors:

**TRUESTRIKE™ – Hitting the Targets that Matter**
The Ultra TRUESTRIKE system, is a globally sourced solution which brings together the best technology for use with ground and airborne forces in dismounted, mounted and HQ centred joint fires targeting roles. Ultra’s philosophy centres on partnering with global technology leaders in order to provide interoperable, proven equipment that is underpinned by open architectures and software definable features. Flexible and scalable, TRUESTRIKE can be deployed with additional tools and equipment to meet a given scenario and take advantage of continuous developments in technology.
DAY ONE – TUESDAY 23rd FEBRUARY

09:00 Chairman’s Opening Remarks

LtCol (Retd) Andrew Tate, Former Ground Indirect Fires Officer, United States Marine Corps.

Lt Col (Retd) Tate was a career Artillery Officer in the United States Marine Corps with extensive experience of Indirect and Joint Fires. During his staff appointments LtCol Tate worked closely with the US Army and the US Air Force on Joint Fires issues to ensure interoperability and reduce the duplication of effort. LtCol Tate has also worked Joint Fires issues with Joint and Coalition partners via the Joint Fire Support Executive Steering Committee. As a result of this experience LtCol Tate is ideally qualified to Chair the conference and lead discussion.

09:10 – The UK Fires Programme

Brigadier Simon Humphrey, Director, Capability Development Combat Support, Lt Col Eamonn Welch, SO1 Plans, Offensive Support, Capability Development Combat Support

- Royal Artillery Task Org & Assets 2020
- Dismounted Joint Fires Integrator Programme
- Warrior OPV upgrade
- Future Radar requirements
- Joint Fires Simulation Training (JFST) programme

09:50 – Weapon Locating Radars in Combined Arms Operations

Major Bård Frostad (ret), Senior Military Advisor, Saab Electronic Defense Systems AB

10:30 - Coffee

11:00 – US Army Fires – Current & Future Initiatives

Colonel James J. Bailey, TRADOC Capabilities Manager- Brigade Combat Team - Fires, Fires Center of Excellence, FT Sill, OK

- Overview of the US Army Fires Program (integration of precision guided munitions into the force, (PGK, Excalibur, GMLRS) armed UAS)
- STA (dismounted CAT 1 target acquisition, C2 at the tactical edge, integration of UAS at the tactical edge, multi function radars)
- C2 (Improve airspace management & C2)
- Training (Joint Fires Training (distributed mission oriented, immersive simulation), Live/Synthetic balance, use of contractor services)
- Counter UAS initiatives

11:50 – SOUND IGLOO wide volume acoustic target acquisition

Alex Koers, Cofounder and Director, Microflown Avisa, Arnhem, the Netherlands (www.microflown-avisa.com)

- SOUND IGLOO building blocks (unattended ground based Acoustic Multi Mission Sensor, UAV based Acoustic Pointer)
- All weather passive multi threat capability (RAM, SAF, helicopters/ UAV)
- Ground based applications (target practicing, compound protection, counter UAV/ SKYSENTRY)
- Drone based applications
- Outlook (surface skimming cruise missiles and ground vehicles as threats, platforms across the front line)

12:30 – Lunch
14:00 – Joint Fires education & Training in French Army: how to be prepared for future commitments? Reality and challenges
Lt Col Philippe de Riols de Fonclare, Chief, Office of Specialised Studies,
School of Artillery, French Army
- Overview of current assets in FR ARMY
- Current and developing capabilities in FR Army : from counter UAS to TBMD, from counter RAM to counter battery, from mortars to cruise missiles
- Facing the challenges: present and future education and training systems, from live fires to synthetic training
- Facing the realities: which synergies to be developed to face live firing limitation in Europe?

14:45 – The role of simulation in Joint Fires Training
Alexander Alderson, Marketing Director, SAAB

15:15 – Tea/Coffee

15:45 – The Coordinated and Integrated Employment of Fire Support in the Italian Army: Role of the Field Artillery.
Colonel Tommaso Capasso, Branch Head HD Staff - Doctrine, Studies & Lessons Learned, Italian Army Artillery HQ
- Development of Fire Support Concept in the Italian army 2034: role of the field artillery
- Development of Joint Fire doctrine, training and equipment

16:30 – Panel Discussion - Find, Fix, Understand & Strike
- Improve warning & location accuracy of IDF threats (weapon locating sensors, platform integration, deployment aids, networking)
- Improve airspace management & C2 (air surveillance sensors, networking, combat ID)
- Improve close combat target acquisition accuracy capabilities (north finding technology, system/sensor integration, vehicle mounted systems)

17:15 – Conference Adjourns – Drinks Reception

14:00 – Multinational Training and Excercises in the JFS Branch
Lieutenant Colonel Stephan Schön, Chief of Section, Army Concepts and Capabilities Development Center, German Army
- Joint Fire Support
- Executive Steering Committee: Accreditation of the JFO-Program
- Short introduction of the German artillery schoolhouse
- German role in NATO Framework Nation Concept
- Capability Cluster 2278y Joint Fire Support

14:40 – Synthetic Joint Fires Training – The Danish Approach
Capt Jens Astrup, Staff Officer, Army Combat and Fire Support Centre, Danish Army
- Description of Danish Joint Fires training concept – national- and on coalition level
- Danish simulation capabilities now and potential future development
- Lessons identified from training BTN-level Fire Support capabilities

15:15 – Tea/Coffee

15:45 – Spanish Artillery Training and Simulation Center
Lt Col Luis M. Torres Sanz. Artillery Branch Secretariat. Spanish Artillery School.
Lt Col Miguel A. Cervera Martin, Commander of the Spanish Artillery Training and Simulation Center
Description of the Spanish Artillery Training and Simulation Center. Field and Air Defence Artillery Simulators.
- Old version of the Field Artillery Simulator (2001-2014).
- 1st Phase of the Upgrade of the Field Artillery Simulator in year 2015.
- 2nd Phase of the Upgrade of the Field Artillery Simulator in years 2016-2017.

16:15 – Synthetic Wrap - Ex Steel Sabre 16 show & tell
Lt Col (Retd) Martyn Armstrong, Cubic
Ex Steel Sabre is the British Army’s premier Joint Fires and ISTAR Special to Arm Training Excercise. It will be taking place on Salisbury Plain at the same time as the conference. The excercise relies heavily on simulation and emulated services provided by contractors. Without these assets the excercise would be impossible within the confines of UK training areas and airspace. Cubic Defence UK will provide a full representation of their capabilities which are contributing to the exercise. In addition they will provide a live feed of an instrumented CAS platform into the conference in order to demonstrate how instrumented live assets can contribute to a Synthetic Training Wrap to enrich Collective Training.

16:45 – Panel Discussion Joint Fires Synthetic Training
Topics for discussion will include:
- The need for distributed, mission orientated simulation training
- Division of individual, crew and collective training in Joint Fires
- Blend of live, synthetic and contractor training to achieve training objectives
- Multinational, coalition training in Joint Fires

17:15 – Conference Adjourns – Drinks Reception
DAY TWO – WEDNESDAY 24th FEBRUARY

09:00 – Marine Corps Indirect Fire: Current & Future
LtCol Michael "Dale" Butler, Indirect Fire Capabilities Integration Officer at CD&I, United States Marine Corps
- Overview Marine Artillery (Organisation & Assets)
- Marine Corps Indirect Fire Programs Overview
- Marine Corps Indirect Fire Future Initiatives Discussion

09:50 – German Indirect Fire Support 2030+
Colonel Manfred Felber, Head of Section, Joint Fire Support/Indirect Fire, Army Concepts and Capabilities Development Center, German Army
Chances & challenges for German Indirect Fire Support 2030+ and future projects.

10:30 – Coffee

11:00 – Digitization of the full Indirect Fires Kill Chain - a proven solution
Ian Burch, Software Systems Engineer & Offensive Support SME, Rockwell Collins

11:30 – Danish Fire Support Update
Lt Col Søren Høst, Chief Fires at the Army Combat and Fire Support Centre, Danish Army
- Danish Fire Support organization and capabilities
- Potential future development of Danish Fire Support capabilities
- Key acquisition projects

12:10 – Instro Precision
Details TBD

12:50 – Lunch

14:00 – Panel Discussion – Joint Fires Integration
Integrate Session topics:
- Improve the delivery of effects, timely and proportional (datalinks, sensors, system integration, concept of operations)
- Improve Combat ID capabilities (Combat ID servers, Improved Coalition Integration)
- Improve C2 systems at the tactical edge (Joint Fires specific applications)
- Integration of Air into the Land Battlespace
- Improve Airspace C2

15:00 – Tea Coffee

15:30 – The Development of Finnish Army Indirect Fire Capabilities
Lt Col Mika Tauru, Deputy Inspector of Artillery, Army Command, Finland
- Finnish Fire Support organization and capabilities
- Finnish Joint Fires implementation
- Training System and Challenges
- Potential future development of Finnish Fire Support capabilities

16:10 – Modernizing the Royal Canadian Artillery (RCA) for a Joint Operating Environment
Lt Col Vincent Giroux, Deputy Director of Artillery & Commandant Royal Canadian Artillery School
- Canadian Army (All RCA units across Canada)
- RCA Mission/Vision
- ORBAT at RCAS
- Kit & Equipment currently in use
- Current Initiatives
  - Digitization (includes Gun Line & JTAC)
  - Air Space Coordination Centre Modernization
  - New STA Capabilities (MUAS, SUAS, MRR)

16:50 – Chairmans wash up

17:00 – Conference Closes
You can book by:

Website: www.omconf.com
Post: Omega Conferences & Events
Innovation House
Innovation Way
Sandwich
CT13 9FF
United Kingdom.

Or return this form by fax (+44 (0)1227 807610)

Future Indirect Fires-16 Booking Form

Prices

☐ Industry Delegate £1400.00
☐ Mil/Govt Delegate £150.00
☐ Exhibition Package £3500.00
☐ Presentations on CD £160.00

Prices exclude UK VAT @ 20%
Exhibition Package consists of display space + 2 x delegate tickets

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