



Organised in association with ADS

# NIGHT VISION E.O.S

19<sup>th</sup> Conference & Exhibition  
13-14 October 2010  
London, UK



*“This is ‘the’ conference I use to be updated for my job as system manager on night vision equipment.”*  
Danish Army Combat Centre, Denmark



Top speakers include:

**Air Commodore Sean Bell,**  
Head of Capability - Theatre Airspace, MoD, UK

**Dr Joseph Estrera,**  
Senior VP & Chief Technology Officer, L-3 Electro-Optical Systems

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NIGHT VISION

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\* Image courtesy of L-3

# THE global event for the night vision and EOS community

In a world with ever expanding threat scenarios that range from warfighting through stabilisation operations to homeland security and civil policing activity, the utility of electro-optical systems and night vision technologies has continued to experience exponential growth. Few can doubt the asymmetric advantage afforded to those who can exploit the spectrum day or night. Whilst collection capabilities continue to expand so has the need for smart fusion and the prescient use of the derived insights.

## Two-day Conference & Exhibition – 13-14 October 2010

This year our conference will take stock of where we are and where security, economic and political realities are likely to take us. By bringing together academics, scientists, industry, commanders and operators to discuss NV and EOS technological advances and operational lessons, delegates will be able to explore the choices that must now be made. Critically, in a time of austerity and change, speakers will be asked to offer candid insights into emerging technologies and current operational challenges, as well as the complex conundrum posed by multinational information fusion, integration and operations.

With speakers drawn from across the globe, the event will seek to extend the debate and understanding of these key enabling technologies well into the future.

## DELEGATE PACKAGE INCLUDES:

- Executive package with list of all attendees, speakers' biographies and presentation synopses, and online access to presentations after the conference
- FREE copy of Night Vision Handbook 2010/11
- FREE one-year subscription to one of Shephard's magazines
- UNLIMITED ACCESS to conference sessions and exhibition
- Conference support to delegates
- High-quality catering during conference

Past Night Vision & EOS events have attracted:

**27**  
countries

**440**  
attendees

**50**  
exhibitors

## Venue Information

**Olympia Conference Centre**  
Hammersmith Road,  
London  
W14 8UX

## Hotel Bookings

**Hilton London Olympia**  
380 Kensington High Street,  
London  
W14 8NL

**Email:** Julie.Allen@Hilton.com  
**Tel:** +44 (0)207 856 1902  
**Fax:** +44 (0)207 602 5469

## WHO WILL BE EXHIBITING?

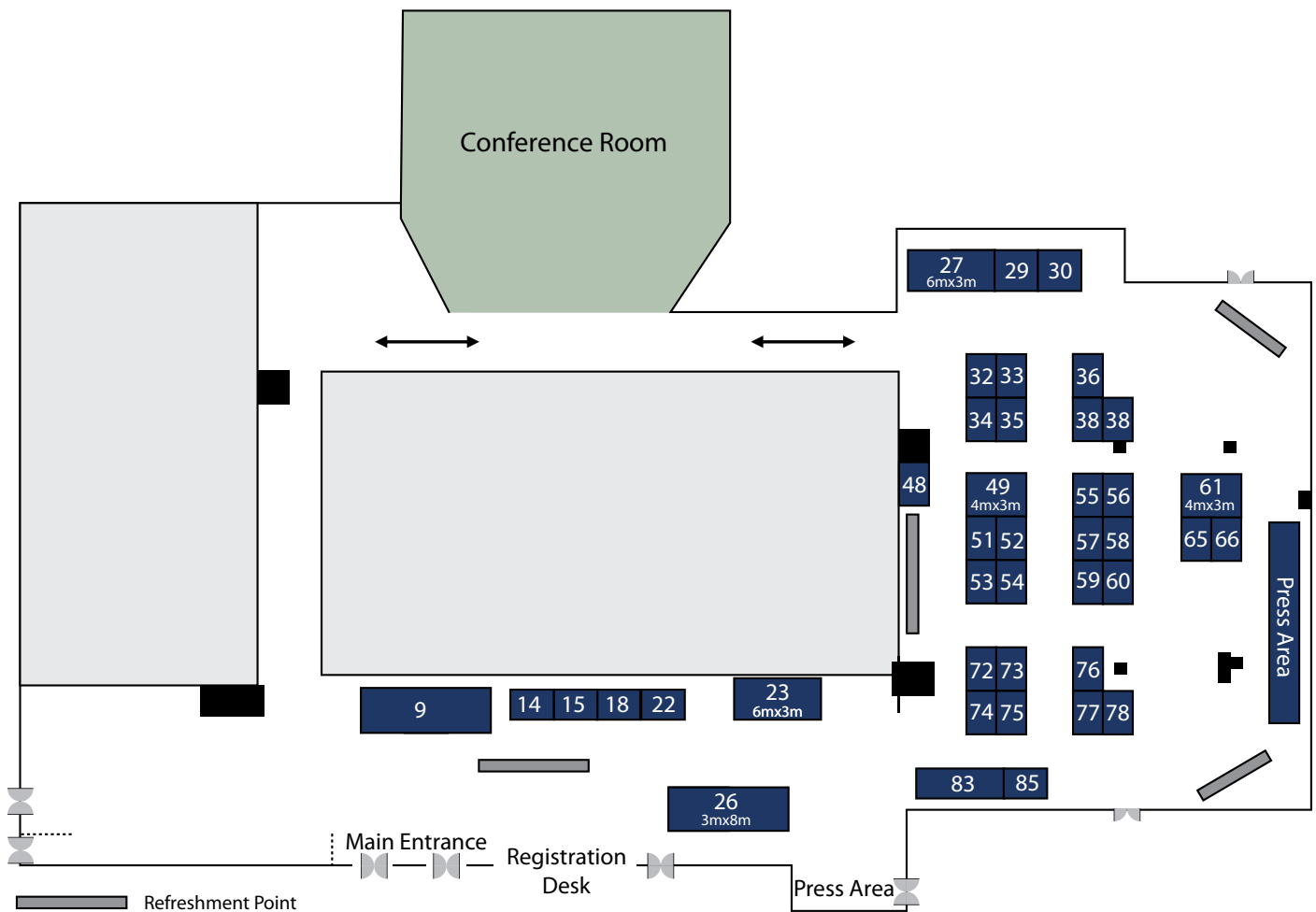
- Electro-optics
- Components/materials
- Image intensifiers
- Aircraft manufacturers
- Photonics
- Surveillance and reconnaissance
- Optronics
- Cameras and lenses
- IR detectors/scopes
- NV lighting
- Laser rangefinders
- Fibre optics
- Thermal imaging
- Training and simulation
- Soldier technology
- Thermal weapon sites
- Testing/maintenance
- Integrated helmets
- Software suppliers, including image processing and fusion applications
- Millimetre-wave imaging
- Satellite sensors
- Short-wave infrared
- Laser illumination
- Laser imaging
- Enhanced vision systems
- Day night all weather (DNAW) sensor suites
- Image fusion
- Periscopes and optronic masts
- Laser mine detection and ASW sensors
- Colour night vision systems
- Vehicle driver visual aids
- Vehicle crew vision systems
- Vehicle target acquisition systems

## WHO WILL BE ATTENDING?

- Chiefs of Army, Navy, Air Force, Marines, Coastguard and Emergency Services
- Senior Research, Development and Engineering
- Personnel in Industry, Government and Academia
- Systems Integrators
- Strategists, Analysts and Consultants
- Military and Civil Programme Managers
- Police, Law Enforcement, Special Forces and Homeland Security
- Government Officials
- Defence Department Policy Makers and Procurement Decision Makers
- Unit and Force Commanders
- Aircrew, Vessel and Vehicle Crews, Senior Maintenance Officers
- Heads of Training Organisations
- Directors of Equipment Capability (DECs)
- Defence Attachés
- CEOs, Presidents and MDs in Key Industries
- Business Development and Purchasing Directors
- Qualifying Organisations
- Human Factors Experts

# Night Vision & EOS Exhibition

Leading industry partners will demonstrate developments in the latest technology and the vast array of sensors, platforms and systems available now and in the future.



## Past exhibitors include:

Alternative Vision Corporation  
 Andover Corporation  
 ATN Corp  
 Axsys Technologies  
 CI Systems, Inc  
 Clear Align  
 Consolite Technology/LFD Ltd  
 Control Products Corporation  
 CVI Melles Griot  
 Defence Vision Systems  
 DME Corporation  
 DRS Technologies  
 ELCAN Optical Technologies

eMagin Corporation  
 Evaporated Coatings, Inc  
 FLIR Systems, Inc  
 General Starlight Company, Inc  
 Hoffman Engineering Corporation  
 HOLOEYE Systems, Inc  
 ICx Imaging Systems  
 Insight Technology, Inc  
 Intevac Photonics, Inc  
 ITT Night Vision  
 L-3 Communications, EOS Division  
 Liteye Systems  
 Lumitron Corporation

MEMS Optical, Inc  
 Newcon Optik  
 Nivisys Industries  
 NoblePeak Vision Corporation  
 Nulite NVG  
 N-Vision Optics, LLC  
 Ophir Optics, Inc  
 OXLEY, Inc  
 PHOTONIS Night Vision  
 Raptor Photonics  
 Ricor  
 Rochester Precision Optics  
 SCD USA, LLC

SELEX Galileo  
 Sofradir EC, ULIS, Electrophysics  
 Special Operations Technology  
 Spire Semiconductor, LLC  
 Teledyne Judson Technologies  
 The O'Gara Group, Sensor Systems Division  
 Thermal Beacon Ltd  
 Thermoteknix Systems Ltd  
 Umicore Electro-Optic Materials  
 US Night Vision Corp  
 Williams Advanced Materials  
 Xenics

To book your delegate place email [bookings@shephard.co.uk](mailto:bookings@shephard.co.uk) or call +44 (0)1753 727017



See the **updated exhibitor list** and **floorplan** - visit [shephard.co.uk/events](http://shephard.co.uk/events)

# Night Vision & EOS 2010

Programme day one – Wednesday 13 October 2010

08.00 – 09.00 - REFRESHMENTS AND EXHIBITION

09.00	<b>CHAIRMAN'S OPENING REMARKS</b> <b>Air Commodore John Harrison</b> , NV Consultant, The Shephard Group, MA Mphil, RAF (Ret'd), UK
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## SESSION 1: The Strategic Context: Keynotes

09.10	POLICY PERSPECTIVES <b>Dr Peter Gray</b> , Senior Research Fellow, University of Birmingham, UK
09.30	CURRENT CAPABILITY CHALLENGES <b>Air Commodore Sean Bell</b> , Head of Capability - Theatre Airspace, MoD, UK
09.50	TBC <b>TBC</b>
10.10	<i>OPEN FORUM DISCUSSION</i>

10.30 – 11.00 - REFRESHMENTS AND EXHIBITION

## SESSION 2: Research and Development: Platforms, Sensors and Display Technologies

11.00	SINGLE AND MULTIPLE EVENT TEMPORAL RESPONSE CHARACTERISTICS OF UN-GATED I <sup>2</sup> TUBE SYSTEMS <b>Dr Joseph Estrera</b> , Senior VP & Chief Technology Officer, L-3 Electro-Optical Systems
11.20	ANALYSIS OF THE IMPACT OF DISPARATE FUSION TECHNOLOGIES ON OPERATIONAL CAPABILITIES <b>Mr Daniel Schneider</b> , Marketing & Sales Director, DEP imaging, Switzerland
11.40	MULTISPECTRAL IMAGING TECHNOLOGIES AND THEIR BENEFITS, INCLUDING THE OPPORTUNITIES OF FUSION <b>Dr Leon Lobo</b> , Technical Director, Laser Optical Engineering, UK
12.00	<i>OPEN FORUM DISCUSSION</i>

12.20 – 13.50 - LUNCH AND EXHIBITION

## SESSION 3: Into Action: The Integration Challenge: Multi-National and Multi-Agency Realities

13.50	THE RAF AND REMOTELY PILOTED AIR SYSTEMS, PAST, PRESENT AND FUTURE <b>Squadron Leader Chris Bulteel</b> , Tactics and Training Remotely Piloted Aircraft, MoD, UK
14.10	CURRENT OPERATIONAL BENEFITS AND USES OF NIGHT VISION AND ELECTRO-OPTICAL SYSTEMS <b>Layne Merritt</b> , Assistant Programme Executive Officer, Aviation, US Army, USA <b>Dr Terry Carlson</b> , Branch Chief, Aviation Commonality and Interoperability, Program Executive Office, Aviation, US Army, USA
14.30	EMERGING DEVELOPMENTS IN SENSORS AND PAYLOADS FOR AVIATION <b>Richard Wright</b> , Senior Engineer, US Night Vision Lab, USA
14.50	<i>OPEN FORUM DISCUSSION</i>

15.10 – 15.40 - REFRESHMENTS AND EXHIBITION

## SESSION 4: Informed and Intelligent: User, Fuser, and Abuser Perspectives

15.40	EVIDENTIAL QUALITY – THE LEGAL CHALLENGES OF USING NV AND EOS DERIVED DATA <b>Richard Brandon</b> , Training & Technology Manager, Metropolitan Police Service Air Support Unit, UK
16.00	GROUND 'USER' PERSPECTIVE SPECIAL TACTICS USES OF NIGHT VISION DEVICES <b>Technical Sergeant Jared Pietras</b> , 352d Special Operations Support Squadron, USAF, USA
16.20	TBC <b>TBC</b>
16.40	<i>OPEN FORUM DISCUSSION</i>

17.00 – 18.00 - DRINKS RECEPTION

\*Programme is subject to change

# Night Vision & EOS 2010

Programme day two – Thursday 14 October 2010

08.00 – 09.00 - REFRESHMENTS AND EXHIBITION

09.00	<b>CHAIRMAN'S OPENING REMARKS</b> <b>Air Commodore John Harrison</b> , MA Mphil, NV Consultant, The Shephard Group, RAF (Ret'd), UK
<b>SESSION 5: Innovation and Agility: Meeting Needs in a Fast Changing World</b>	
09.10	NVG INTEGRATION IN THE JAS 39 GRIPEN <b>Jonas Linde</b> , Flight Test Engineer, Electronic Defence Systems, Saab AB, Sweden
09.30	UPGRADING SEA KINGS TO USE NVIS: CURRENT STATUS AND THE MANY CHALLENGES FACED FROM A PERSONNEL, TRAINING, MAINTENANCE, EQUIPMENT AND COST PERSPECTIVE <b>Captain Mark Baillie</b> , 12 Wing NVG Training Officer, Canadian Forces, Canada
09.50	NIGHT SIGHT MODIFICATION OPTIONS AND ENHANCEMENTS <b>Dr Bernd Ledertheil</b> , Director Research & Development, Carl Zeiss Optronics GmbH, Germany
10.10	<i>OPEN FORUM DISCUSSION</i>
10.30 – 11.00 – REFRESHMENTS AND EXHIBITION	
<b>SESSION 6: Current Operations: SWOT Analysis of Contemporary Equipment and its Utility</b>	
11.00	LESSONS LEARNED/OPERATIONAL FEEDBACK FROM GERMAN ARMY DEPLOYMENTS IN AFGHANISTAN – FUTURE REQUIREMENTS FOR NIGHT VISION IN THE GERMAN ARMY <b>Colonel (GS) Hasenkamp</b> , TRADOC German Army, Germany
11.20	AIRCREW PERSPECTIVE ON CURRENT MC-130P COMBAT SHADOW OPERATIONS <b>Captain Joshua Jackson</b> , 352d Special Operations Support Squadron, USAF, USA
11.40	DUTCH APACHE OPS AFGHANISTAN <b>Captain Oscar Broerse</b> , Commander Flight 3 of 301 (AH) Squadron of the Defence Helicopter Command, Royal Netherlands Air Force, The Netherlands
12.00	<i>OPEN FORUM DISCUSSION</i>
12.20	CHAIRMAN'S CLOSING REMARKS
12.30 – 14.00 - LUNCH AND EXHIBITION	
14.00 - CONFERENCE CLOSE	

\*Programme is subject to change

# NIGHT VISION & EOS 2010 VISITOR REGISTRATION & DELEGATE BOOKING

Fax this form back to +44 (0)1753 727002 For enquiries call +44 (0)1753 727017 or email [bookings@shephard.co.uk](mailto:bookings@shephard.co.uk)

section  
**A**

## YOUR INFORMATION (all fields are mandatory)

Title: \_\_\_\_\_ First name: \_\_\_\_\_ Surname: \_\_\_\_\_

Job title: \_\_\_\_\_ Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Post/Zip Code: \_\_\_\_\_ Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email address: \_\_\_\_\_

### Which of the following best describes your job title?

- General Officer/President/MD/CEO     
  Junior Officer/Junior Management     
  NCO     
  Operator     
  Other (please specify) \_\_\_\_\_  
 Senior Officer/Senior Management     
  Executive     
  Analyst     
  Technician

### Exhibition Visitor - 13-14 October 2010

**FREE** - 10.00-12.00/14.00-16.00 (Day 2 - 10.00-12.00) - excludes refreshments, lunch and conference admittance

### Conference Delegate - Rates Exclude 17.5% UK VAT

Conference Delegate (incl exhibition)	Standard rates	5% Discount Groups 3 to 5 Delegates *	10% Discount Groups 6 to 10 Delegates *	25% Discount One-day rate *
Industry rate	<input type="checkbox"/> £999	<input type="checkbox"/> £949	<input type="checkbox"/> £899	<input type="checkbox"/> £749
Exhibitor/Supporting Association Member rate	<input type="checkbox"/> £899	<input type="checkbox"/> £854	<input type="checkbox"/> £809	<input type="checkbox"/> £674
SME rate (Businesses with 250 employees or less)	<input type="checkbox"/> £599	<input type="checkbox"/> £569	<input type="checkbox"/> £539	<input type="checkbox"/> £449
A D S member rate	<input type="checkbox"/> £599	<input type="checkbox"/> £569	<input type="checkbox"/> £539	<input type="checkbox"/> £449
Military/Government rate	<input type="checkbox"/> £299	<input type="checkbox"/> £284	<input type="checkbox"/> £269	<input type="checkbox"/> £224
OF5 and above plus Civil Servants Band B2	<input type="checkbox"/> <b>FREE</b> (subject to availability)			
Total number of delegates attending: _____				

\* For group bookings please photocopy this form and repeat section A for each additional delegate (all rates listed are per delegate)

section  
**B**

## Please complete if you are a paying delegate

### PAYMENT METHOD (TICK AS APPROPRIATE)

#### Invoice

Please send me an invoice

#### Cheque

Enclosed is my cheque for £ \_\_\_\_\_

Please include 17.5% of UK VAT tax

Cheques should be made payable to:

**Shephard Conferences and Exhibitions Limited**

#### Bank Transfer

Transfer to: **Shephard Conferences and Exhibitions Limited**, National Westminster Bank plc, 63 High Street, Burnham, BUCKINGHAMSHIRE, SL1 7JU, UK

Sterling Account number 47820160

Swift code NWB KGB 2L

#### Card

Please debit my:  AMEX  Mastercard  Visa the sum of £ \_\_\_\_\_

Card number:             CVN:    found on reverse of card

Expiry date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Start date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Signature of card holder: \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Credit card payments for sponsorship and exhibition packages will be subject to a surcharge of 2.5%.**

Signature \_\_\_\_\_

Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

#### DATA PROTECTION

Your details will be held confidentially and will only be used by The Shephard Group to process your order and provide you with additional news and information on Shephard products. Occasionally we may make our lists available to carefully screened third parties.

Place a clear X in the box if you do not wish to receive information of interest from other companies approved by The Shephard Group.

Place a clear X in the box if you do not wish to receive information about new events and offers from The Shephard Group.

#### DELEGATE TERMS AND CONDITIONS

- No delegate will be allowed into conference sessions unless full fees have been received prior to the event.
- Registrations within 7 days of the event must be made by credit card.
- Delegate places may not be shared.
- Substitution of delegates is permitted, provided that the organisers are informed in advance in writing.
- Once a booking form has been received by the organisers and joining instructions issued, any cancellation, which must be received in writing, will be subject to the following:
  - All cancellations received more than one calendar month prior to the event will be subject to a 10% administration fee.
  - No refund of delegate fees will be made for cancellations received within one calendar month of the event.
- By providing your email address on this booking form, you consent to The Shephard Group using this to inform you of other products and services.
- These terms and conditions apply to delegate bookings only. Exhibitor terms and conditions can be obtained on request.