

"To counter the multitude of security threats at sea, we must deny our adversaries the use and exploitation of the maritime environment, including its transportation systems. The first step toward enhancing Maritime Security is achieving increased awareness of activities in the maritime domain." www.globalsecurity.org

Mitigating Threats in the Maritime Environment

Maritime Domain Awareness

14th & 15th June 2010, Lisbon Marriott, Portugal

Don't miss presentations from:

- General (Ret'd) David Leaky, (Former) Director General, **European Union Military Staff**
- Rear Admiral António Silva Ribeiro, Deputy Vice Chief of Portuguese Naval Staff, **Portuguese Navy**
- Rear Admiral Phillip Wilcocks, Director, **CEMPA, UK**
- Commodore (Ret'd), RS Vasan, (Former) Regional Commander, Coast Guard Region East, **Indian Navy**
- Commodore Dan Thorell, Director & Head of Regional Command South, **Swedish Coastguard**
- Commander Sean Irvine, Senior Planning Officer Atlanta Region, **Canadian Navy**
- Commander Rob Reed, MOC Project Team, Deputy Director Fleet Coordination, **US Navy***
- Commander Larry Trim, Branch Head Maritime Operations Section N3, **MCC NATO Northwood**
- Lieutenant Commander Rob Cornick, Programme Officer, Undersea Research Centre, **NATO, Italy**
- Senior Representative, **Royal Navy, UK**
- Detective Superintendent Scott Chilton, Head of Special Branch, **Hampshire Constabulary, UK**
- Christian Dupont, Deputy Head of Unit, DG TREN, Transport and Energy, **European Commission**
- Dr Gordon Campbell, EO Applications Engineer, Maritime Surveillance, **European Space Agency**
- Giles Noakes, Head of Security, **Baltic and International Maritime Council (BIMCO)**
- Malcolm Warr OBE, Head of Maritime Security Team, **Finmeccanica, UK**
- Vijay Ramakrishnan, **NUS High School of Mathematics and Science, Singapore**

*Subject to final confirmation**

Conference highlights:

- Hear Keynote Addresses from the Portuguese Navy, International Maritime Bureau and EU Military Staff
- Discuss challenges and responses for MDA in the Indian Ocean region
- Assess MDA based on space surveillance and tracking
- Take part in an interactive panel discussion establishing if MDA is used to best effect
- Explore the common operating theatre and the latest simulation training technologies
- Network with the people you want to meet from the maritime community

PLUS A POST-CONFERENCE INTERACTIVE WORKSHOP:

Containers - The Achilles Heel of Maritime Domain Awareness?

16th June 2010, Lisbon Marriot, Portugal

Led by: Cambridge Academy of Transport



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8.30 Registration & Coffee

9.00 Chairman's Opening Remarks
Rear Admiral Phillip Wilcocks, Director, **CEMPA, UK**

9.10 HOST NATION OPENING ADDRESS

Maritime Security in Portugal

- Update of activities in the Portuguese Navy
- Generating actionable intelligence at sea
- Information sharing between ships
- Integrated technology to aid maritime surveillance

Rear Admiral António Silva Ribeiro, Deputy Vice Chief of Portuguese Naval Staff, **Portuguese Navy**

9.50 KEYNOTE ADDRESS

EU Military Staff – How do Crews Counter Attacks?

- EU Military Staff plans and requirements
- Assessing the evolving threat
- Identifying the enemy through effective intelligence and information gathering
- Working together with EU nations to deliver greater maritime awareness
- Future improvements we can make

General (Ret'd) David Leaky, (Former) Director General, **European Union Military Staff**

10.30 Morning Coffee

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INTERNATIONAL PROGRAMMES – AWARENESS AND EDUCATION

10.50 SPECIAL ADDRESS

The Royal Navy's Maritime Strategy

- Overview of activities in the Royal Navy
- Securing our maritime borders
- Using the entire service fleet to ensure greater awareness at sea
- Is there a lack of maritime domain awareness?
- New technologies being used to aid surveillance
- Lessons learned and future obstacles

Senior Representative, **Royal Navy, UK**

11.30 Challenges and Responses in the Indian Ocean Region

- Growth and present status of the IN
- The IN maritime power and potential
- Evolving solutions for a changing maritime environment - Paradigm shift post 26/11
- Security considerations on the Indian ocean
- Equipping and using systems – increasing MDA in a changing maritime environment
- ORBAT, acquisition programmes, indigenous ship building programmes and technological advances

Commodore RS Vasan IN (Ret'd), (Former) Regional Commander, Coast Guard Region East, **Indian Navy**

12.10 Networking Lunch

1.30 Improving Interoperability and Information Sharing at all Levels Amongst the Shipping Community

- How do we create a more joined-up approach amongst the shipping community?
- Coordination and cooperation in response to maritime threats
- Where does the information come from - data, knowledge and intelligence sharing
- Can we do better?

Giles Noakes, Head of Security, **Baltic and International Maritime Council (BIMCO)**

INTEROPERABILITY, COMMUNICATIONS & REQUIREMENTS

2.10 Technologies for MDA

- MDA requirements
- Identifying the different technologies that can contribute
- Traditional sensors, Cooperative systems and non-traditional passive sensors
- Integrating technologies to improve situational awareness at all levels
- Case studies
- Technology and people power
- Final thoughts

Lindon Paxton, Senior Systems and Operations Analyst, **Defence Science and Technology Laboratory, UK ***

2.50 Maritime Security and Merchant/Military Co-operation

- Strategic communications technologies in support of security and safety
- Commercial and Military communications interaction
- Using existing solutions as a framework infrastructure
- Why use satellite technology
- Future developments in maritime domain awareness

Steff Taylor, Business Development Manager, **Inmarsat Government Services**

Peter Blackhurst, Head, **Inmarsat Maritime Safety Services**

3.30 Afternoon Tea

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3.50 Intelligence Gathering Using Unmanned Surface and Subsurface Vehicles

- Using unmanned systems on and under the water for a complete operating picture
- Incorporating unmanned with existing procedures and systems
- Improving extended offshore operations
- Reducing manning requirements

Lieutenant Commander Rob Cornick, Programme Officer, Undersea Research Centre, **NATO, Italy**

4.30 Space Based Surveillance for the Maritime Sector

- Using satellites to increase maritime domain awareness
- What operational advantage do they bring?
- Enabling early risk assessment
- US/Europe cooperation
- Next programmatic steps at a European level

Dr Gordon Campbell, EO Applications Engineer, Maritime Surveillance, **European Space Agency**

5.10 The Piracy Detection Satellite System

- Maritime surveillance and Piracy detection
- Spaceborne Polarimetric Interferometric Synthetic Aperture Radar (SAR) system - enabling early risk assessment
- Providing detailed 3D ship models of targets
- Tracking suspected pirate vessels using textural and geometric image integration
- Integrating the system moving forward

Vijay Ramakrishnan, **NUS High School of Mathematics and Science, Singapore**

5.10 Chairman's Closing Remarks and Close of Day One

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8.30 Re-registration & Coffee

9.00 Chairman's Opening Remarks
Rear Admiral Phillip Wilcocks, Director, CEMPA, UK

9.10 KEYNOTE ADDRESS

The Threat of Global Piracy in the Maritime Domain

- An overview and assessment of global piracy
- Understanding the legal-framework international agencies have to operate in
- Mitigating the threat of piracy through greater maritime domain awareness
- Coordination and de-confliction with other commands
- Identifying pirates at sea

Cyrus Mody, Piracy Analyst, International Maritime Bureau

9.50 INTERACTIVE PANEL DISCUSSION

Is Maritime Domain Awareness Used to Best Effect?

Moderator: Malcolm Warr OBE, Head of Maritime Security Team, Finmeccanica, UK

Panellists:

- Commodore RS Vasan IN (Ret'd), (Former) Regional Commander, Coast Guard Region East, Indian Navy
- Giles Noakes, Head of Security, Baltic and International Maritime Council (BIMCO)
- Dr Gordon Campbell, EO Applications Engineer, Maritime Surveillance, European Space Agency
- Christian Dupont, Deputy Head of Unit, DG TREN, Transport and Energy, European Commission

10.50 Morning Coffee

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RISK ASSESSMENT

11.10 Risk Assessment and Evaluation – The US Approach

- US Navy's maritime policy and operating requirements
- How much legislation is practical and justified?
- Risk assessment and evaluation
- Identifying the threats - tankers, pipe-lines etc
- An overview of the US training programme – simulated vs. live training
- Integrated marine information systems
- Increasing our capabilities

Commander Rob Reed, MOC Project Team, Deputy Director Fleet Coordination, US Navy *

11.50 SPECIAL ADDRESS

Multinational and Coalition Approach in the Fight Against Piracy

- An update of activities at MCC NATO Northwood
- The challenge of international militaries/organizations operating under their flag to combat piracy (CMF/EU/NATO)
- Shared Awareness and Deconfliction meetings (SHADE)
- Exploiting intelligence to stay one step ahead of the pirates
- The challenge of logistics – Too few ports for the international community
- Legal considerations: To detain or not detain
- Final conclusions

Commander Larry Trim, Branch Head Maritime Operations Section N3, MCC NATO Northwood

12.30 Networking Lunch

COMMON OPERATING PICTURE

1.50 A Common Operating Picture - Status Update for Europe

- An assessment of ship security and the operating picture in Europe
- Information sharing at sea
- Mitigating threats through increased maritime domain awareness
- What are the major challenges and how do we overcome them?

Christian Dupont, Deputy Head of Unit, DG TREN, Transport and Energy, European Commission

2.30 Project Kraken – Maritime Reporting Strategy

- History and maritime vulnerabilities
- Maritime domain awareness
- UK Police National Maritime Security Strategy
- Community engagement
- Olympic difference

Detective Superintendent Scott Chilton, Head of Special Branch, Hampshire Constabulary, UK

3.10 Operations – Swedish Coastguard

- Assessment of activities in the Swedish Coast Guard
- Interoperability and information sharing with the Swedish Navy
- Have we created a joined up approach?
- Technologies being used to aid success

Commodore Dan Thorell, Director & Head of Regional Command South, Swedish Coastguard

3.50 Afternoon Tea

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SIMULATION AND TRAINING

4.10 Simulation and Training in the Canadian Navy

- Delivering the next generation of training capabilities
- Key factors influencing training
- Benefits of simulated training vs. live training
- Limitations of e-training
- Future training requirements - lessons learned from operations

Commander Sean Irvine, Senior Planning Officer Atlanta Region, Canadian Navy

4.50 Systems Requirements and Training

- Developing the correct systems architecture
- The systems in use
- Creating realistic simulated exercises – the challenge
- Future considerations

Senior Representative, Industry

5.30 Chairman's Closing Remarks and Close of Conference

* Subject to final confirmation

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HALF DAY INTERACTIVE WORKSHOP

Containers - The Achilles Heel of Maritime Domain Awareness?

16th June 2010,
Lisbon Marriot, Portugal

Led by:
**Cambridge Academy
of Transport**



Programme:

Registration	8:30
Start	9:00
Morning Coffee	10:30
Resume	11:00
End	1:00

Overview:

Threats in the maritime domain can originate and end, well beyond the ports' surrounding limits and it is this particular aspect of security which will be the focus of this interactive half day workshop. Coupled with the discussion on the individual links of the supply chain, will be the review of the current security initiatives presently being instigated by the various US agencies for container vessels serving the North American trades.

This workshop will provide you with unique interactive insights into the most up-to-date maritime security challenges and threats.

The workshop and the ensuing debate should benefit senior executives with the following business backgrounds:

- Container carriers
- Ship managers
- Container terminal operators
- Intermodal transportation carriers
- Shipping agents
- International regulatory bodies
- Military security specialists

About the workshop leader:

Richard E W Butcher is Chairman and Managing Director of Invicta Management Services, providers of commercial and operational advice to companies involved in deep sea cargo transportation, with a specialisation in the container business. He is a qualified Master Mariner with an extra Master Mariner's BSc in Maritime Studies, a Fellow of the Chartered Institute of Logistics & Transport; and a Fellow of the Royal Institute of Navigation.

In 1979 he formed his own company - Invicta Management Services - to provide expert consultancy on a long term basis for companies involved in the container business.

Cambridge Academy of Transport has been conducting a wide range of maritime transport related training programmes for over 25 years. No two courses are alike, other than in their basic structure. Current issues always dictate content, which is being continually updated by the lecturers who have hands-on experience and day-to-day contact with the industry, thereby giving a practical slant to all the programmes.

Cambridge Academy of Transport have also tailor-made a series of practical courses in association with the Baltic Exchange to meet the needs of those involved in the shipping business. Apart from Cambridge and London, the programmes are run at other maritime centres around the world.

SMi's Security Forward Schedule of Events:

- **International Port Security**
September 2010
- **Aviation Security**
November 2010
- **Counter CBRN Operations**
February 2011
- **Border Security 2011**
March 2011
- **Cyber Defence**
May 2011

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Inmarsat has been providing safety critical communications to users in the maritime domain for over 30 years, and is the leading provider of global mobile satellite communications to the military and civil maritime sectors. Inmarsat's I-4 satellites deliver simultaneous voice and broadband IP data, through a range of compact antennas and terminals, supporting a significant range of applications that enhance the communications capability and security of users at sea.

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Maritime Domain Awareness

14th & 15th June 2010, Lisbon Marriott, Portugal

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