

*"Good mix of views,
presentations & opinions"*

*Michael Pobat, Theater Combat Systems, Mission Force Protection,
Deputy Assistant Secretary of the Navy*



SMi's Second Annual **Anti-Ship Missiles**

4th & 5th November 2002, The Hatton, London

A unique opportunity to learn from leading military experts including:

Benefits of attending

- **Discover** the importance and increasing role ASMs are playing in the military battlespace
- **Maximise** your current and future systems' capability
- **Consider** certain key systems and companies
- **Debate** the threat of fast attack craft as part of an asymmetric littoral response
- **Develop** key contacts through this focused networking forum

- **RADM Harry Ulrich**, Director, Surface Warfare, OPNAV N76, US Navy
- **Captain George K Hamilton**, Deputy Chief of Staff Resource, Warfare Requirements & Assessments (N8), Commander, US Naval Forces Europe (CINCUSNAVEUR)
- **Cdr Joe Capstaff**, SLAM-ER/Harpoon Class Desk, US Navy
- **Cdr S Konidaris HN**, Hellenic Navy General Staffing, Hellenic Navy
- **Dr A M J Van Eijk**, Senior Scientist, TNO/FEL
- **Lt Cdr Paul Bell**, Staff Officer Electronic Warfare, Maritime Warfare School
- **Jean-Luc Moerel**, Research Scientist, Rocket Technology, TNO Prins Maurits Laboratory
- **Doug Wright**, Principle Vulnerability Scientist, QinetiQ

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THE INTERNATIONAL NAVAL NEWSLETTER

8.30 Registration & Coffee

9.00 **Chairman's Opening Remarks**

Ted Hooton, Editor, *Jane's Naval Weapons Systems*

KEYNOTE ADDRESS

9.10 **The impact of 21st century anti-shipping missiles on naval warfare**

- The evolution of anti-shipping missile warfare
- Recent technological advances in anti-shipping missile warfare
- Anti-shipping missile acquisition and industrial base strategies for the 21st century
- The impact of modern ship self defense and area air defense enhancements on anti-shipping missile development

RADM Harry Ulrich, Director, Surface Warfare, OPNAV N76, **US Navy**

STANDOFF LAND ATTACK-EXPANDED RESPONSE ANTI-SHIP MISSILE

9.40 **Air-launched anti-ship missile**

- The AGM-84 family of weapons
- SLAM-ER system
- Man-In-The-Loop control
- Missile capabilities
- The future

Cdr Joe Capstaff, SLAM-ER/Harpoon Class Desk, **US Navy**

SUPERSONIC RAMJET PROPELLED ANTI-SHIP MISSILES

10.20 **Threat evaluation**

- Introduction (question of the Royal Netherlands Navy – important features of the threat – choice of a reference missile)
- Weave strategies of supersonic anti-ship missiles
- Modelling of the threat
- Trajectory simulation results of the weaving threat
- Performance simulations of an anti-missile against the threat
- Concluding remarks

Jean-Luc Moerel, Research Scientist, Rocket Technology, **TNO Prins Maurits Laboratory**

11.00 Morning Coffee

HARPOON BLOCK II

11.20 **A dominating force in littoral environments**

- Program overview
- Block II capabilities and status
- Beyond Block II

John R Harnagel, Program Manager, **Boeing**

RBS15 MK3

12.00 **A key player in littoral warfare**

- Modern anti-ship missiles' requirements
- Littoral warfare
- Present capabilities of the RBS15 MK3
- The dual use of anti-ship missiles

Commander RSwN (Reserve) Manne K A Koerfer, Director Strategic Marketing, Surface-to-Surface Missiles, **Saab Bofors Dynamics AB**

12.40 Lunch

SHIPBORNE ASMD

2.00 **An overview**

- ASMD C2
- ASMD planning factors
- The planning process
- Triggering ASMD reactions
- The employment of soft-kill
- Hard-kill/soft-kill co-ordination

Lt Cdr Paul Bell, Staff Officer Electronic Warfare, **Maritime Warfare School**

EXOCET FAMILY

2.40 **All-weather, heavy anti-ship missiles**

Guy de Beaucorp, Military Advisor, **MBDA**

MASS™

3.20 **Multi Ammunition Softkill System with 5 degrees of freedom (5-DOF)**

- The littoral (incl. terrorist) and the blue water missile threat
- MASS™: system features/ship integration
- The littoral effectiveness of MASS™
- The blue water effectiveness of MASS™
- The multi-spectral effectiveness of MASS™ against:
 - Ultraviolet
 - Electro-optical
 - Laser
 - Infrared
 - Radar

Heinz Bannasch, Director of Naval & Air Self Protection Systems,

Buch Neue Technologien GmbH

Martin Fegg, Product Manager Naval Self Protection Systems,

Buch Neue Technologien GmbH

4.00 **Chairman's Closing Remarks, Afternoon Tea and Close of Day One**

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8.30 Re-registration & Coffee

9.00 **Chairman's Opening Remarks**
Ted Hooton, Editor, *Jane's Naval Weapons Systems*

SHIP SELF-DEFENSE IN THE 21ST CENTURY

9.10 **How much is enough?**

- The evolving threat
- Methodology to determine requirements for anti-ship cruise missiles
- Tailoring ship self-defense to ship mission
- Determining capabilities
- The trade-offs
- Supporting the decision process

Captain George K Hamilton, Deputy Chief of Staff Resource, Warfare Requirements & Assessments (N8), Commander, *US Naval Forces Europe (CINCUSNAVEUR)*

HELLENIC 62 METRE FAST ATTACK CRAFT

9.40 **An overview**

- Fast attack craft design
- Craft armed with Exocet ITL 70 A MM40 Block II surface to surface missile and RAM surface to air missiles
- Combat management – combat suite
- Sensors and communications
- Lethality of the Fast Attack Craft
- Status of the program – delivery schedule

Cdr S Konidaris HN, Hellenic Navy General Staffing, *Hellenic Navy*

FAST ATTACK CRAFT

10.20 **Naval platforms for anti-ship missiles**

- From torpedo boat to missile craft
- Modern fast attack craft as platform for ASM
- The tactical/operational role
- Trends for the future

Detlef Schlichting, Senior Naval Architect, *Fr Lürssen Werft*

11.00 Morning Coffee

COUNTERMEASURES

11.20 **Effectiveness of anti-ship missiles defence**

- Atmospheric propagation effects
- Ship signature reductions
- Deployment of decoys
- Seeker simulation

Dr A M J Van Eijk, Senior Scientist, *TNO/FEL*

THE EVOLVED SEASPARROW MISSILE

12.00 **Introduction**

- History
- Developmental team
- Flexibility in combat system integration
- Overview of performance improvements
- Programmatics
- Testing highlights

Ray Poage, Raytheon

12.40 Lunch

VULNERABILITY ASSESSMENT

2.00 **Correcting the assumptions**

- Current estimations of warhead power based mainly on WWII build vessels
- Improvements in build standards post war are not fully appreciated
- Falklands experience reviewed to see what original conclusions could be re-interpreted
- Wider implications

Doug Wright, Principle Vulnerability Scientist, *QinetiQ*

Marte MK2/S

2.40 **Future light anti-ship missile for helicopters**

- Italian Navy development program
- Operational requirements
- Main features
- Mission planning
- Penetration capabilities
- Growth potential

Guiliano Cottini, Business Development – Naval Sector, *MBDA*

ANTI-SHIP MISSILES AND THE LAW

3.20 **Legal perspectives for manufacturers and their clients**

- Is the use of anti-ship missiles regulated by international law?
- Anti-ship missiles and terrorism – recent legal developments
- Anti-ship missiles and merchant targets – who pays?
- How much force is right?
- Contractual issues between contractors and their clients

Dominic Spenser Underhill, Partner, *Mayer, Brown, Rowe & Maw*

4.00 **Chairman's Closing Remarks , Afternoon Tea & Close of Conference**



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