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undersea defence technology
CONFERENCE AND EXHIBITION
10-12 June 2008 SECC, Glasgow, United Kingdom

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SECC, Glasgow, UK

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CONFERENCE PREVIEW GUIDE

Affordable Underwater Defence Systems and Technologies

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- **Combat Systems**
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- **Maritime Security & Force Protection**
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- **Network Centric Warfare & Communications**
- **Operation, Navigation & Training**
- **Ship Design & Signature Management**
- **Sonar & Non-Acoustic Sensors**
- **Underwater Technology – Dual Use Applications**
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SESSION PAPERS

Combat Systems I
Improving Combat System Performance
3A.1 OLATMA a Fast OnLine Acceptance Tool for TMA
3A.2 Putting the "Tactical" Back Into Submarine Tactical Picture Compilation Performance
3A.3 The COLLINS Class Submarine Approach to Electronic Systems Upgrades

Combat Systems II
Open System Architectures
5B.1 An Open Architecture for Active/Passive Sonar Systems
5B.2 Use of Open Source Software in Development of ASW Processing Systems
5B.3 Delivering Tactical Decision Aids in a Service Oriented Architecture

Combat Systems Poster Sessions
PI.1 Review of the Modular Open Systems Architecture
PI.2 A Pattern Language for Open System Architectures

Environmental Effects and Monitoring I
Environmental Assessment
2B.1 Applications of Ocean Acoustic Environmental Monitoring Using AUV Based Acoustic Sensors
2B.2 Finite Difference Time Domain Method as a Validation Tool of Transmission Loss Calculation for Layered Underwater Acoustic Environments
2B.3 The Acoustic Raytrace Model Lybin - Description and Applications

Environmental Effects and Monitoring II
Environmental Impact
9B.1 Sonar Transient False Alarm Reduction Based on Detection and Characterization of Marine Mammal Sounds
9B.2 Assessing the Environmental Effects on Marine Mammals Due to Underwater Detonations
9B.3 Enhancing Environmental Impact Assessments Using Localised Fauna Data

Environmental Effects and Monitoring Poster Sessions
PII.1 Three-Dimensional Sonar Array Signal Simulation System Based on Fast Computation of Normal Mode Acoustic Field
PII.2 Sea Turtle Collision Prediction Using Monte Carlo Simulations
PII.3 Characteristic analysis of the acoustic properties of sea sediment in Japan
PII.4 Numerical Simulation of Bathymetry Measurements by Multibeam Echo Sounder on UUV

Instrumentation and Ranges I
Tracking Concepts
5C.1 Development of a Portable Expendable Air-Monitored Tracking Range
5C.2 Portable Underwater Tracking Systems for Multiple Targets
5C.3 Non-Invasive Track and Eavesdropping for Networked Undersea Vehicles Testing

Instrumentation and Ranges II
Practical Results
7D.1 Predicting Navigation Fix Accuracy : A Realistic Alternative to Over-Optimistic DOP Values
7D.2 The New German Magnetic Earth Field Simulator - First Experiences
7D.3 A Design Approach to In-House Automated Test Simulation & Analysis Facility for Unmanned Underwater Vehicles

Instrumentation and Ranges Poster Sessions
PII.5 Challenges for Undersea Tracking Range Development
PII.6 A Realization of Underwater Cooperative Targets Positioning System
PII.7 Laboratory Panel Measurements of Underwater Acoustic Material Properties at Simulated Ocean Conditions

Maritime Security and Force Protection I
Development of Equipment for Diver Detection in Harbour
3D.1 From Concept to Acceptance – Lessons Learnt in the Move from Prototype to Production of the Sentinel Intruder Detection Sonar
3D.2 Diver Detection Sonar "X-Type"
3D.3 Critical Operational Analysis of Diver Detection Sonar Systems

Maritime Security and Force Protection II
Integrated Port Security Systems
4D.1 Harbor Shield: A New Technique for Inspection of Vessels Below the Waterline
4D.2 Network Centric Harbour Protection and Surveillance System Demonstration
4D.3 Integrated Coastal and Harbour Surveillance

Maritime Security and Force Protection III
Port Security Surveillance Systems
10C.1 Underwater Monostatic Acoustic Barrier
10C.2 Underwater RF Fence
10C.3 Detection of Drifting Mines and Other Types of Assymetric Threats with the Application of Magnetic Barriers

Maritime Security and Force Protection IV
Use of Sonar in Underwater Harbour Surveillance
12C.1 Examples of the Combined Use of Active and Passive Sonar for Underwater Harbour Surveillance
12C.2 Underwater Acoustics for Harbour Protection
12C.3 Combining Active and Passive Sonar for Harbor Defense

Maritime Security and Force Protection Poster Sessions
PIII.1 Technologies Challenges and Needs in Harbour Surveillance
PIII.2 Mine Warfare and Force Protection - New Approaches

Mine Warfare I
Mine Disposal Systems
7B.1 Influencing the Mine Actuation Location
7B.2 Articulated Warhead Mine Disposal Vehicle
7B.3 Taking the Man Out of the Mine Field

Mine Warfare II
Detection of Sea Mine
8B.1 HISAS 1030: The Next Generation Mine Hunting Sonar for AUVs
8B.2 Detection and Classification of Subsurface Objects in a Marine Environment by the Use of a Lidar System
8B.3 Computer Aided Detection of MLOs in Side Scan Sonar Images

Mine Warfare III
AUV, UUV Application for Sea Mine Detection with Sonars
11B.1 The MCM-UUV: Capability and Performance
11B.2 MCM Operations with the HUGIN 1000-MR AUV
11B.3 AN/WLD-1 Remote Multi-Mission Vehicle (RMMV) Applications

Mine Warfare IV
AUV, UUV Application for Sea Mine Detection with Acoustics, Non-Acoustic Sensors
12B.1 Sonar and Video Perception for an Autonomous Mine Disposal Vehicle
12B.2 Future Sensor Equipment on AUVs for Minehunting Applications
12B.3 Clearance Operation of Teulada Site (Italy): A Novel Approach for Short Term MCM Ops.in Seafloor Hard Conditions

Mine Warfare Poster Sessions
PIII.3 S-10, A Mine-Hunter ROV
PIII.4 Simulation of the Efficiency of a System of Drones
PIII.5 Through Life Capability Management of Remote Technologies in the Maritime Environment

Network Centric Warfare and Communications I
Network Centric Warfare Technology and Design I
2A.1 A Language Approach to the Underwater Distributed Network Interoperability Problem
2A.2 REACH, A Submerged Remote Sensing Reconnaisance System
2A.3 Distributed Netted Systems (DNS) for Undersea Threats

Network Centric Warfare and Communications II
Network Centric Warfare Technology and Design II
8D.1 A Flexible Service Oriented Architecture (SOA) for Network Centric Warfare and Battle Space Concurrent Processing
8D.2 Implementing Net-Centric Tactical Warfare Systems
8D.3 Heterogeneous Underwater Networks: Technology and Techniques

Network Centric Warfare and Communications III
Communication Networks
10D.1 Optical Reconnaissance Capability With Communication Buoy System CALLISTO
10D.2 Expendable Communications Relay for Distributed Sonobuoys
10D.3 Special Operational and Connectivity Considerations for SSGNs

Network Centric Warfare and Communications IV
Underwater Communications
11C.1 Covert Underwater Communication with Marine Mammal Sounds
11C.2 Covert Underwater Communication Experiments Using DSSS and TURBO Equalization
11C.3 A Novel Architecture for Multi-hops Routing Ad Hoc Underwater Acoustic Sensor Networking

Network Centric Warfare and Communications Poster Sessions
PI.3 Geospatial Intelligence Integrated Reference Architecture (GI2RA) for the Delivery of Hydrographic and Oceanographic Information using a Network Enabled Capability
PI.4 Architecture and System Design Considerations for the Underwater Sensor Network
PI.6 An Underwater Positioning System Based Long Range Ultra Short Base Line

Operation, Navigation and Training I
New Technologies for Navigation
4A.1 Electronic Navigation – Technology Enabling Submarine Operations in Littoral Areas
4A.2 Can Permanent Readiness, Availability and Stability Over Long Term Operation Without Life Cycle Management be Possible?
4A.3 Sea State Identification in Submarine Autopilot Design

Operation, Navigation and Training Poster Sessions
PI.7 A Solution to Simultaneous Localization and Mapping with a Sidelooking Sonar
PI.8 Extended Navigation and Detection Sonar with Bottom Mapping Functionality

Ship Design and Signature Management I
Design Rules
5A.1 Designing Submarines for Support
5A.2 Bureau Veritas Rules for the Classification of Traditional Naval Submarine
5A.3 Turbulent Wall Pressure Fluctuation Measurements on a Towed Model at High Reynolds Numbers

Ship Design and Signature Management II
Safety and Rescue
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8A.2 The Design Development of a Modular, Scaleable Liferaft System
8A.3 A Dynamic Thermal Model of the Submarine Internal Climate

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Energy and Propulsion
9A.1 Composite Ship Propellers
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9A.3 Increasing Pakistan Navy AGOSTA 90B Operational Potential with MESMA AIP System

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10A.2 Acoustic Target Strength Design for Submarines – Modeling and Measurements
10A.3 Trilateral (CA, NL, GER) Research Initiative with Regard to Onboard Signature Management Systems

Ship Design and Signature Management V
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11A.1 Ship Signature Calculations by Finite Difference Time Domain Method
11A.2 A Detailed Pixel Model for Generic Surface Ships, Applied in the ALMOST Model for Acoustic Echo Structures, and in the MAGFIELD Model for Magnetic Field Modelling
11A.3 Electric and Magnetic Signatures

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Submarine Design
12A.1 Class 210mod - A Compact and Versatile Submarine Solution
12A.2 Submarine Power and Propulsion - Application of Technology to Deliver Customer Benefit
12A.3 SMX 23 Andrasta Certification

Ship Design and Signature Management
Poster Sessions
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PIII.7 Reducing Corrosion, Signatures and Costs with a well designed Cathodic Protection System
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PIII.9 Improving an Existing Submarine Battery Cell Design to Withstand the German Navy Shipbuilding Standard BV 0430
PIII.10 Electromagnetic Fields Produced by Sea Going Electric Dipole
PIII.11 Flexible Rubber Based Piping System
PIII.12 Submarine Weapons Interface System (SWIS)
PIII.13 CP-OFDM Channel Equalization based Pilot in Underwater Acoustic Channel

Sonar and Non-Acoustic Sensors I
Passive Sonar
3B.1 Background Noise Cancellation for Acoustic Detection and Passive Ranging
3B.2 HMM Automatic Detection and Tracking for Passive Sonar
3B.3 Time Delay Estimate Using Cepstrum Analysis in a Shallow Littoral Environment

Sonar and Non-Acoustic Sensors II
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4C.2 Using Digital Watermarking to Authenticate and Identify Active Sonar Echoes
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5D.3 Sonar Own Noise Evaluation for Towed Array and Flank Array

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Non-Acoustic Sensors
7A.1 New Functions for Optronic Masts Using Image Processing
7A.2 The Evolution of Submarine Visual Systems
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Sonar and Non-Acoustic Sensors V
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8C.2 Modular Multistatic Sonar Systems
8C.3 Multi-Platform Multistatic Active Sonar

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10B.2 Compact, Broadband Sonar Projectors Using Single Crystal Technology
10B.3 Parameter Sonar Research, Development, Testing and Evaluation in Narragansett Bay

Sonar and Non-Acoustic Sensors Poster Sessions
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PII.9 Bi-Static Detection of Moving Targets
PII.10 Research for Incidence Wave Source Influence on the Acoustic Scattering Field From Underwater Marine Bodies
PII.11 Multi Function Acoustic Processor (MFAP)
PII.12 Rapid Fielding of ASW Processing Technology
PII.13 Interest of Optronic Non Penetrating Masts; For New Submarines and for the Refit of Existing Submarines
PII.14 Thales Underwater Systems FLASH-S Dipping Sonar Testing
PII.15 Thales Underwater Systems Flight Test Trials of FLASH SONICS on Board the NFH90 Helicopter
PII.16 The Ultra Artemes Synthetic Aperture Sonar and Forward Look Binocular Sonar
PII.17 Using the Quadratic Phase FFT for the Detection of Non-Stationary Tonals
PII.18 High Fidelity Real-Time Sonar Simulation

Underwater Technology – Dual Use Applications I
Underwater Technologies and Material
2D.1 Simulation of the Water Diffusion Process into Thermoplastic Cable Sheath
2D.2 Lightweight MCM Cable System
2D.3 Offshore Technology to Support Underwater Dual Use Applications

Underwater Technology – Dual Use Applications II
Intervention Technologies
9C.1 Enhancing Hyperbaric Life Support Systems with Technology Insertion
9C.2 Manned Underwater Intervention in Rescue and Military Applications

Unmanned Vehicles I
Architecture and Payload I
2C.1 A Feasibility Study of a Novel Propulsion System for Unmanned Underwater Vehicles
2C.2 RHyVAU – The World's First Ring Wing UUV. A Unique Low Energy Vehicle for Autonomous, Remote and Tethered Sensor Applications
2C.3 New Concepts in Mine Warfare

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Architecture and Payload II
3C.1 Remote Deployment of Commercial and Military Sensors at Sea
3C.2 Proving the Double Eagle SAROV Dual Use AUV/ROV Platform
3C.3 UUV Applications from Submarines

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4B.1 Talisman - An Integrated MCM Capability, In-water Demonstrations December 2007
4B.2 Modular and Commercial Available Technology for Germanys Future Family of Unmanned Underwater Vehicles
4B.3 Synthetic Aperture Sonar – From Lab Space to Battle Space

Unmanned Vehicles IV
Control and Command
7C.1 Coordination and Control of Cooperating Unmanned Systems – First Research Results
7C.2 Command and Control Initiatives for Autonomous Underwater Vehicles (AUVS) to Support Rapid Environmental Assessment
7C.3 Software Architecture for AUV Systems with Multiple Degrees of Autonomy

Unmanned Vehicles Poster Sessions
PI.9 Design of Fuzzy Controller for Autonomous Underwater Vehicles
PI.10 Modeling and Analysis of Dynamic Performance of a ROV Using Specific Thruster Configuration
PI.11 DAURADE: A New Autonomous Underwater Vehicle for Discreet Rapid Environmental Assessment
PI.12 Harbour Protection Trials 2008 - Possibility of Deploying AUV's
PI.13 Application of the Fuzzy Logic in Tracking Filtering

Weapons and Countermeasures I
9D.1 Innovative Underwater Effector Systems
9D.2 Design and Fabrication of the NUWC Light Propulsor
9D.3 Torpedo Stealthiness as a Must

Weapons and Countermeasures II
11D.1 Tomahawk Maintenance Information Transfer Tool
11D.2 Torpedo and Countermeasures Interference Modelling
11D.3 NEMO - NIXIE Enhanced Modular Option: Surface Ship Torpedo Defense (SSTD)

Weapons and Countermeasures III
12D.1 An Advanced Wake Homing Methodology for Torpedoes
12D.2 VLA - Extended Range System
12D.3 The Utility of a Long Stand-Off Precision Placement Torpedo in an Undersea Distributed Networked Sensor Field

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CONFERENCE TIMETABLE

Day 1 - Tuesday 10th June 2008

0900	1 **Official Opening & Keynote Addresses**			
1030	Networking Tea and Coffee Break			
1100	2A **Network Centric Warfare & Communications I** Network Centric Warfare Technology & Design I	2B **Environmental Effects & Monitoring I** Environmental Assessment	2C **Unmanned Vehicles I** Architecture & Payload I	2D **Underwater Technology – Dual Use Applications I** Underwater Technologies & Materials
1230	Networking Lunch in Exhibition Hall and opportunity to View Poster Sessions **Poster Session I -** Combat Systems - Network Centric Warfare & Communications - Operation, Navigation & Training - Unmanned Vehicles			
1400	3A **Combat Systems I** Improving Combat System Performance	3B **Sonar & Non-Acoustic Sensors I** Passive Sonar	3C **Unmanned Vehicles II** Architecture & Payload II	3D **Maritime Security & Force Protection I** Development of Equipment for Diver Detection in Harbour
1530	Networking Tea and Coffee Break			
1600	4A **Operation, Navigation & Training I** New Technologies for Navigation	4B **Unmanned Vehicles III** Architecture & Payload III	4C **Sonar & Non-Acoustic Sensors II** Active Sonar	4D **Maritime Security & Force Protection II** Integrated Port Security Systems
1730	Close of day one			

Day 2 - Wednesday 11th June 2008

0900	5A **Ship Design & Signature Management I** Design Rules	5B **Combat Systems II** Open System Architectures	5C **Instrumentation & Ranges I** Tracking Concepts	5D **Sonar & Non Acoustic Sensors III** Performance
1030	Networking Tea and Coffee Break			
1100	6 **Exhibition Visiting Time**			
1230	Networking Lunch in Exhibition Hall and opportunity to View Poster Sessions **Poster Session II -** Environmental Effects & Monitoring - Instrumentation & Ranges - Sonar & Non-Acoustic Sensors			
1400	7A **Sonar & Non Acoustic Sensors IV** Non-Acoustic Sensors	7B **Mine Warfare I** Mine Disposal Systems	7C **Unmanned Vehicles IV** Control and Command	7D **Instrumentation & Ranges II** Practical Results
1530	Networking Tea and Coffee Break			
1600	8A **Ship Design & Signature Management II** Safety and Rescue	8B **Mine Warfare II** Detection of Sea Mine	8C **Sonar & Non-Acoustic Sensors V** Multistatics	8D **Network Centric Warfare & Communications II** Network Centric Warfare Tech & Design II
1730	Close of day two			

Day 3 - Thursday 12th June 2008

0900	9A **Ship Design & Signature Management III** Energy & Propulsion	9B **Environmental Effects & Monitoring II** Environmental Impact	9C **Underwater Technology – Dual Use Applications II** Intervention Technologies	9D **Weapons & Countermeasures I**
1030	Networking Tea and Coffee Break			
1100	10A **Ship Design & Signature Management IV** Signature Management I	10B **Sonar & Non-Acoustic Sensors VI** Transducers & Arrays	10C **Maritime Security & Force Protection III** Port Security Surveillance Systems	10D **Network Centric Warfare & Communications III** Communication Networks
1230	Networking Lunch in Exhibition Hall and opportunity to View Poster Sessions **Poster Session III** Maritime Security & Force Protection - Mine Warfare - Ship Design & Signature Management - Weapons & Countermeasures			
1400	11A **Ship Design & Signature Management V** Signature Management II	11B **Mine Warfare III** AUV, UUV Application for Sea Mine Detection with Sonars	11C **Network Centric Warfare & Communications IV** Underwater Communications	11D **Weapons & Countermeasures II**
1530	Networking Tea and Coffee Break			
1600	12A **Ship Design & Signature Management VI** Submarine Design	12B **Mine Warfare IV** AUV, UUV Application for Sea Mine Detection with Acoustics, Non-Acoustic Sensors	12C **Maritime Security & Force Protection IV** Use of Sonar in Underwater Harbour Surveillance	12D **Weapons & Countermeasures III**
1730	Close of day three			

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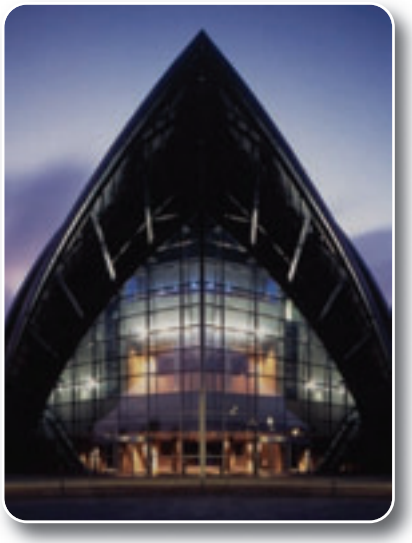

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Tuesday	10th June	9:00 – 17:30
Wednesday	11th June	9:00 – 17:30
Thursday	12th June	9:00 – 17:30

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