

# DEFENCE TECHNOLOGY ASIA 2006 CONFERENCE PROGRAMME

**Day 1, Wednesday, 24 May 2006**

|          |   |
|----------|---|
| 7:30 AM  | Registration and Coffee   |
| 9:00 AM  | Opening Remarks and Video   |
| 9:05 AM  | Opening Keynote Address by Guest of Honour<br><b>RADM Ronnie Tay</b><br><i>Chief of Navy</i><br><i>Republic of Singapore Navy</i><br><b>Singapore</b>   |
| 9:25 AM  | Keynote Speech<br><b>Maritime Security and Demands on the Littoral</b><br><b>RADM Goran Larsbrink</b><br><i>Special Advisor, International Cooperation</i><br><i>Ministry of Defence</i><br><b>Sweden</b>   |
| 9:43 AM  | Keynote Speech<br><b>Operations in the Littoral: A strategic View of New Naval Platforms and Combat Systems</b><br><b>RADM William Landay</b><br><i>Chief of Naval Research</i><br><i>Office of Naval Research</i><br><i>United States Navy</i><br><b>USA</b> |
| 10:01 AM | Keynote Speech<br><b>Challenges in a Littoral Environment</b><br><b>Mr Seah Moon Ming</b><br><i>Deputy Chief Executive, ST Engineering</i><br><i>President, ST Electronics</i><br><b>Singapore</b>  |
| 10:20 AM | <b>Coffee Break</b>   |
| 10:45 AM | Keynote Speech<br><b>Technology to Meet Changing Maritime Requirements</b><br><b>Mr Steve Ludlum</b><br><i>President</i><br><i>Submarine Business</i><br><i>Rolls Royce</i><br><b>UK</b>  |
| 11:03 AM | Keynote Speech<br><b>Dr Klaus Borgschulte</b><br><i>Executive Board Chairman,</i><br><i>ThyssenKrupp Marine Systems</i><br><b>Germany</b>   |
| 11:21 AM | Keynote Speech<br><b>Minewarfare : from ROV to AUV</b><br><b>Gen Jean-Pierre Buleon</b><br><i>Director Asia, Directorate for International Relations</i><br><i>General Delegation for Armaments (DGA)</i><br><b>France</b>                                    |
| 11:40 AM | <b>Exhibition Opening and Tour of Exhibits</b>  |
| 12:30 PM | <b>Lunch</b>  |

**Day 1, Wednesday, 24 May 2006 - PM**

|         |  | <b>Submarine &amp; ASW<br/>Asia 2006</b>   | <b>Naval Surface Ships<br/>Asia 2006</b> |
|---------|--|--|--|
|         |  | Conference Plenary Session   | Conference Plenary Session               |
|         |  | <b>Submarine Combat Systems &amp;<br/>Underwater Battle Space - I</b>  | <b>Naval Platforms &amp; Training</b>    |
| 2:00 PM | Chairman: Gary Lee   | Chairman: Lam Yen Chin   |  |
|         | Keynote Speech<br><b>Tropical shallow water acoustic communications for ad-hoc networking of coastal autonomous assets</b><br><br><b>A/Prof John Potter</b><br><i>Associate Director, Tropical Marine Science Institute<br/>National University of Singapore<br/>Singapore</i> | <b>Mine Countermeasure Vessels For The Future</b><br><br><b>Thomas Johansson</b><br><i>– Kockums</i>   |  |
| 2:25 PM | <b>A Reliable Fibre Optic Guide System For Heavy Weight Torpedo</b><br><b>Luca Corbinelli</b><br><i>– Whitehead Alenia Sistemi Subacquei</i>   | <b>The Consideration of Survivability in Naval Ship Classification</b><br><b>Lorenz Petersen</b><br><b>Presented by: Benigno Castro-Bellon</b><br><i>– Germanischer Lloyd</i>                                |  |
| 2:50 PM | <b>Sea Acceptance Trials on O'Higgins</b><br><b>Jean-François DREVILLON</b><br><b>CDR Carlos BLAMEY</b><br><i>– DCN &amp; Chilean Navy</i>   | <b>Emerging Concepts of French Navy Education and Training Organisation</b><br><b>RADM(Rtd) Bernard COMBE</b><br><b>Philip Vanhulle</b><br><i>- Navfco</i>   |  |
| 3:15 PM | <b>The Installation &amp; Use Of Zebra Batteries</b><br><b>Dave Williamson</b><br><b>Lt Cdr Neil Benstead, RN</b><br><i>– Rolls-Royce</i>  | <b>Anti-Submarine Warfare</b>  |  |
|         |  | <b>Integrated ASW System For Surface Ships Operating In Challenging Environment</b><br><b>Massimo Giovannelli</b><br><b>Marco Signorini</b><br><i>– Whitehead Alenia Sistemi Subacquei</i>                   |  |
| 3:40 PM | <b>Coffee Break</b>  |  |  |
| 4:10 PM | Chairman: COL Loh Yong Joo   | Chairman: Dr Claudio Ceccarini   |  |
|         | <b>Structural Design of Naval Submarines</b><br><b>Dr.-Ing. Lars Grünitz</b><br><i>– Germanischer Lloyd</i>  | <b>The CAPTAS Nano: New Generation Of High Performance Sonars</b><br><br><b>Patrick Vincent</b><br><br><i>–Thales</i>  |  |
| 4:35 PM | <b>Next Generation of Submarines the Swedish Navy</b><br><b>Lt Cdr Mats Abrahamsson</b><br><br><i>– FMV</i>  | <b>The New Generation Naval IRST- Infrared Sensor Search &amp; Track System, against Classic and Asymmetric Threats</b><br><br><b>Emmanuel de Roquefeuil</b><br><b>Nicholas Goubatain</b><br><i>- Thales</i> |  |
| 5:00 PM | <b>Adjourned</b>   |  |  |

**Day 2, Thursday, 25 May 2006 - AM**

|          | <b>Submarine &amp; ASW<br/>Asia 2006</b>   | <b>Naval Surface Ships<br/>Asia 2006</b>   | <b>Unmanned Vehicle<br/>Technology Asia 2006</b>  |
|----------|--|--|---|
|          | Conference Plenary Session   | Conference Plenary Session   | Conference Plenary Session  |
|          | <b>Submarine Rescue Systems</b>  | <b>Naval Warfare</b>   | <b>Surveillance</b>   |
| 9:00 AM  | Chairman: CDR(E) Mats Nordin   | Chairman: Lionel Mun   | Chairman: Gary Lee  |
|          | The Nato Submarine Rescue System<br><b>Aidan Goldsworth</b><br>- <i>Rolls-Royce</i>                                      | Naval Sigint & Communication<br>ESM Systems<br><b>Bertrand Gerfault</b><br>- <i>Thales</i>   | Flash Dipping Sonar On<br>Unmanned Surface Vehicle<br><b>Dr Alain MAGUER</b><br><b>Christian Giroussens</b><br>- <i>Thales</i>  |
| 9:20 AM  | New Generation Submarine Rescue<br>Vessel<br><b>Robert Edlund</b><br>- <i>Kockums</i>                                    | Ship Self Defence<br><b>Paul Knight</b><br>- <i>QinetiQ</i>  | A New Underwater System<br><b>Sverker Johansson</b><br>Presented by: <b>Bo Lövgren</b><br>- <i>Saab</i>   |
|          | <b>Submarine Combat Systems &amp;<br/>Underwater Battle Space - II</b>   | <b>Maritime Security</b>   |   |
| 9:45 AM  | The Underwater Battle Space<br><b>Paul Knight</b><br>- <i>QinetiQ</i>  | Application Of Existing Light<br>Weight Torpedo In Anti-Piracy &<br>Anti-Terrorist Roles<br><b>Dr Claudio Ceccarini</b><br>- <i>Eurotorp</i> | Unmanned Surface Vehicles<br><b>Danny Anbary</b><br><br>- <i>Elbit</i>  |
| 10:10 AM | <b>Coffee Break</b>  |  |   |
|          | Chairman:<br>CDR (ITN. ret'd) Michele Ingrassia  | Chairman :<br>CMDRE Rajeev Sawhney   | <b>Mine Warfare</b>   |
| 10:40 AM | Information Sharing Between Units<br>In Network Based Defence<br><b>Peter Bitzén</b><br>- <i>Kockums</i>                 | Naval Force Intranet<br><b>Pierre Lénard</b><br>- <i>Thales</i>  | Chairman: <b>Dr Claudio Ceccarini</b><br><br>A Modular And Stand Off Vision<br>Of Future Subsurface And Mine<br>Warfare<br><b>RADM Bruno Sifantus</b><br>- <i>DCN</i> |
| 11:05 AM | Channelized Receiver for ESM /<br>ELINT Systems<br><br><b>Josef Gretz</b><br>- <i>Elbit</i>                              | Maritime Security: New Solutions<br>For New Challenges<br><b>LTC Stephen Sim</b><br>- <i>Future Systems Directorate,<br/>Mindef</i>          | Delivering a Future Unmanned<br>Vehicle Payload Capability<br><b>Chris Minto</b><br><br>- <i>QinetiQ</i>  |
| 11:30 AM | New Concepts For The Evaluation Of<br>Underwater Systems<br><b>Yves CHARLOT</b><br><b>Michel Le Dard</b><br>- <i>DCN</i> | Piracy In Southeast Asian Waters<br><b>Catherine Zara Raymond</b><br>- <i>IDSS</i>   | Remote Multimission System<br>(RMS) Littoral Warfare<br>Applications<br><b>Brad Hines</b><br>- <i>Lockheed Martin</i>   |
| 11:55 AM | Multiplying The Effectiveness of<br>ASW Helicopters<br><b>Wg Cdr (Ret) John Martin</b><br><br>- <i>Ultra</i>             | Paride – Dual Use Technologies in<br>Anti- Terrorism Protection<br><br><i>Whitehead Alenia Sistemi Subacquei</i>                             | The AUV High Resolution Sonar<br><b>Bo Lövgren</b><br>- <i>Saab</i>   |
| 12:20 PM | <b>Lunch</b>   |  |   |

**Day 2, Thursday, 25 May 2006 - PM**

|         | <b>Submarine &amp; ASW<br/>Asia 2006</b>  | <b>Naval Surface Ships<br/>Asia 2006</b>  | <b>Unmanned Vehicle<br/>Technology Asia 2006</b>  |
|---------|---|---|---|
|         | <b>Submarine Combat Systems &amp; Underwater Battle Space - III</b>   | <b>Surveillance &amp; Signature Management</b>  | <b>Mine Warfare &amp; Surveillance</b>  |
|         | <b>Chairman: COL(NS) Tay Tiong Beng</b>   | <b>Chairman: Gary Seah</b>  | <b>Chairman: CDR(E) Mats Nordin</b>   |
|         | Digital Acoustic Head Optimisation<br><b>Marco SIGNORINI</b><br><b>Vincenzo NIGRO</b><br>– <i>Whitehead Alenia Sistemi Subacquei</i>  | Managing the Multi-Influence Threat<br><b>Samantha Davidson</b><br>– <i>Ultra</i>   | High precision, high resolution bathymetry and imaging with the HUGIN AUVs<br>– <i>Kongsberg</i>  |
| 2:15 PM | Combat System for Submarines in Net work Centric Operations<br><b>CDR Sverker Lindholm</b><br>Presented by:<br><b>Lt Cdr Stefan Schagerberg</b><br>– <i>FMV</i>   | The Impact Of Littoral Environment On Naval Radar Design<br><b>Alain Nicolle</b><br>– <i>Thales</i>   | Tactical Applications and Use of Small Unmanned Aerial Vehicles for Information, Surveillance and Reconnaissance<br><b>Anthony Mulligan</b><br>– <i>Advanced Ceramics Research</i>  |
| 2:40 PM | The Modern Helicopter Dipping Sonar System - Application to the Littoral Environment<br><b>Donald Frederick</b><br><b>Michael Ogle</b><br><b>Lou Ann Granger</b><br>– <i>L-3 Communications Ocean Systems</i> | <b>Coastal &amp; Harbour Defence</b><br><br>Applications Of 3D Sonar In Maritime Security<br><b>Paul Baxter</b><br>– <i>CodaOctopus</i>           | A Semi-Autonomous ROV as a Platform for Remote Mine Warfare and Maritime Security Operations<br><br><b>Jan Siesjö</b><br>– <i>Saab Underwater Systems</i>   |
| 3:05 PM | <b>Coffee Break</b>   |   |   |
| 3:30 PM |   | <b>Chairman:<br/>CMDRE Rajeev Sawhney</b><br><br>Subsea Navigation for Hull Inspection Surveys<br><br><b>Nick J Smedley</b><br>– <i>Sonardyne</i> | <b>Wave-WP(World Processing) Technology and Applications</b><br><b>Peter Simon Sapaty</b><br>– <i>Institute of Mathematical Machines &amp; Systems<br/>National Academy of Sciences<br/>Glushkova, Kiev, Ukraine</i><br><br>"Paper provided in Author's absence". |
| 3:55 PM |   | <b>Application Of Light Weight Torpedo For Coastal Defence</b><br><b>Dr Claudio Ceccarini</b><br>– <i>Eurotorp</i>                                |   |
| 4:20 PM |   | <b>Maritime Security - a modular approach</b><br><b>John Nilsson</b><br>– <i>Kockums AB</i>   |   |
| 4:45 PM | <b>End of Conference</b>  |   |   |