

# International Maritime Protection Symposium 2005

**Dec. 12-14, 2005 • Hilton Hawaiian Village Resort: South Pacific Room 1  
Honolulu, Hawaii 96815, USA**

*\*Attendance to this symposium is by invitation only\**

Jointly Organized by

Temasek Defense Systems Institute (TDSI) National University of Singapore,  
Naval Postgraduate School (NPS), and Lawrence Livermore National  
Laboratory (LLNL)



Maritime security and protection has become an increasingly daunting challenge facing the global maritime industry for both civilian and naval vessels. The international maritime protection symposium will focus on maritime awareness, security, and safety. The aim of this symposium is to provide a forum for professionals in the defense community around the world to exchange views on security issues and discuss new technologies for protecting maritime domain activities.

The symposium will be conducted in 2 parts as shown below.

**Part 1: "Political situation, Threat and Policies".**

Covering the political and policy aspects of maritime security, scenario, and threats to safe shipping, intelligence gathering and sharing.

**Part 2: "Solutions and Counter-measures".**

Covering information management, sensors systems, shipping processes, facilities planning & design, networking and communications. This would occupy a larger part of the conference presentations.

The international maritime protection symposium will offer 2 keynote speeches, 30 technical and strategic presentations, and 1 panel discussion to give the audience a broad range of information. The keynote speakers are distinguished individuals from the defense communities in US, and Singapore.

The symposium includes one reception on the evening of Dec. 12th to provide opportunities for the delegates to meet and socialize with new experts in their field.



**KEYNOTE SPEAKER**  
**ADM. Thomas Fargo, USN (Ret)**

**President,**  
**Trex Enterprises Corp.**

Admiral Fargo served as Commander, United States Pacific Command, at Camp H. M. Smith, Hawaii, from May 2, 2002 to February 26, 2005. He was the twentieth officer to hold the position. Trained in joint, naval and submarine commands, Admiral Fargo served in a variety of sea and shore duty assignments. At sea, his five assignments in both attack and ballistic missile submarines included Executive Officer aboard Plunger and Commanding Officer of Salt Lake City. He served as Commander, Submarine Group SEVEN, Commander Task Force SEVEN FOUR, and Commander Task Force ONE FIVE SEVEN in the Western Pacific, Indian Ocean and Persian Gulf from 1992 to 1993. He retired from military service in 2005. Admiral Fargo is a 1989 recipient of the Vice Admiral James Bond Stockdale Award for Inspirational Leadership. His personal decorations include the Distinguished Service Medal (four awards), the Defense Superior Service Medal and the Legion of Merit (three awards)

**KEYNOTE SPEAKER**  
**Tan Peng Yam**

**Deputy Chief Executive (Technology)**  
**Science Technology Agency**



Tan Peng Yam is the Deputy Chief Executive (Technology) of Defence Science Technology Agency. In this capacity, he is responsible for technology management, international defence technology cooperation, industry development and systems architecture in support of the Ministry of Defence and the Singapore Armed Forces.

## SYMPOSIUM AT A GLANCE

**Monday, December 12**

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|--|--|
| 9:00 AM – 9:15 AM                          | Welcome and Opening Remarks  |
| 9:15 AM – 10:00 AM                         | Keynote Address, Tan Peng Yam, Singapore   |
| <b>MARITIME DOMAIN SECURITY- Session 1</b> |  |
| 10:00AM - 10:30 AM                         | Frank Shoup (NPS), MDA War-Gaming  |
| 10:30AM – 11:00 AM                         | Yeoh Lean Weng (Singapore), Overcoming Surprises in Maritime Security                      |
| 11:00 AM – 11:30 AM                        | <i>Coffee Break</i>  |
| <b>WIRELESS NETWORKS – Session 1</b>       |  |
| 11:30 AM – 12:00 PM                        | Brian Steckler (NPS), Hastily formed Networks for HA/DR: the SE Asia tsunami and hurricane |
| 12:00 PM – 12:30 PM                        | Peter Denning (NPS), Hastily Formed Networks: an Overview                                  |
| 12:30 PM – 1:00 PM                         | Brian Fila (OSD, US), OSD views on HFN's for HA/DR and Other Applications                  |
| 1:00 PM – 2:00 PM                          | <i>Lunch</i>   |
| <b>TERRORISM &amp; SECURITY</b>            |  |
| 2:00 PM – 2:30 PM                          | Cynthia Irvine (NPS), Multilevel Security  |
| 2:30 PM – 3:00 PM                          | Cunningham (SPAWARS), Anti-terrorism Testbed   |
| 3:00 PM – 3:30 PM                          | Arabinda Acharya (Singapore), Securing the Seas in SE Asia                                 |
| 3:30 PM – 4:00 PM                          | <i>Coffee Break</i>  |
| <b>KEYNOTE</b>                             |  |
| 4:00 PM – 5:00 PM                          | Keynote Address, Thomas Fargo, USA   |
| 5:00 PM – 7:00 PM                          | <i>Reception</i>   |

**Tuesday, December 13**

|                        |   |
|------------------------|---|
| 7:45 AM – 8:00         | Welcome to Tuesday's Program  |
| 8:00 AM – 8:30AM       | Joseph Edwards (Singapore), Submerged Object Detection using Passive Sonar                                |
| 8:30 AM – 9:00 AM      | Khoo Boo Cheong (Singapore), Prediction of Free Surface Water Plume as a Barrier to Sea-skimming missiles |
| 9:00 AM – 9:30 AM      | Faranak Nekoogar (LLNL), Ultra-wideband Communications in Maritime Applications                           |
| 9:30 AM – 10:00 AM     | Arden Dougan (LLNL), Radiation Detection in Maritime Environment  |
| 10:00 AM – 10:30 AM    | Alex Bordetsky (NPS), The NPS-LLNL Testbed for Maritime Interdiction Experiments                          |
| 10:30 AM – 11:00 AM    | <i>Coffee Break</i>   |
| <b>MALACCA STRAITS</b> |   |
| 11:00AM – 11:30 AM     | Jeff Kline (NPS), Counter-piracy and Counter-terrorism in the Straits of Malacca                          |
| 11:30AM – 12:00 AM     | Aaron Chia Eng Seng (Singapore), Engineering Maritime Protection in the Malacca Straits                   |
| 12:00 AM -1:00PM       | <i>Lunch Break</i>  |
|                        |   |

| <b>WIRELESS NETWORKS – Session 2</b>        |   |
|---|---|
| <b>1:00 PM – 1:30 PM</b>                    | <b>Hua Lee (UCSB), Research Review of the Sensor Networks and Communications</b>  |
| <b>1:30 PM – 2:00 PM</b>                    | <b>A Nallanathan (Singapore), Robust Wireless Communications System for MD monitoring</b>                                       |
| <b>2:00 PM – 2:30 PM</b>                    | <b>Gurminder Singh (NPS), Deployable Sensor Networks for Surveillance</b>   |
| <b>2:30 PM – 3:00 PM</b>                    | <i>Coffee Break</i>   |
| <b>INFRASTRUCTURE</b>                       |   |
| <b>3:00 PM – 3:30 PM</b>                    | <b>Don Brutzman (NPS), Harbor Defense Planning, Force Protection and Vulnerability Assessments using agent-based DES</b>        |
| <b>3:30 PM – 4:00 PM</b>                    | <b>Oliver Tan Kok Soon (Singapore), A multi-agent system for tracking the intent of surface contacts in Ports and Waterways</b> |
| <b>4:00 PM – 4:30 PM</b>                    | <b>Tan Choon Kiat (Singapore), The Harbor Defense IKC2 Experiment</b>   |
| <b>4:30 PM – 5:00 PM</b>                    | <b>Thomas Lucas (NPS), Using Simulation to Study Protection of Critical Maritime Assets</b>                                     |
| <b>Wednesday, December 14</b>               |   |
| <b>7:45 AM – 8:00 AM</b>                    | <b>Welcome to Wednesday’s Program</b>   |
|   | <b>MARITIME DOMAIN SECURITY - Session 3</b>   |
| <b>8:00 AM – 8:30 AM</b>                    | <b>Virginia Watson (APC), Maritime Security: the Dynamics of Change &amp; Stability in Southeast Asia</b>                       |
| <b>8:30 AM – 9:00 AM</b>                    | <b>Gregg Glaros (OFT)</b>   |
| <b>MARITIME DOMAIN SECURITY - Session 4</b> |   |
| <b>9:00 AM – 9:30 AM</b>                    | <b>Jim Ehlert (NPS), Coalition Operating Area Surveillance &amp; Targeting System</b>   |
| <b>9:30 AM – 10:00 AM</b>                   | <b>Dan Boger (NPS), C2 Architecture for MDP &amp; MDA</b>   |
| <b>10:00 AM – 10:30 AM</b>                  | <i>Coffee Break</i>   |
| <b>10:30 AM – 11:00 AM</b>                  | <b>Catherine Zara Raymond (Singapore), Maritime Security: The Singapore Experience</b>  |
| <b>11:00 AM - 11:30 AM</b>                  | <b>Darren Sutton (Australia): MDS – Australian Viewpoint</b>  |
| <b>11:30AM – 12:00 PM</b>                   | <b>Wrap-up Panel</b>  |
| <b>12:00 PM – 12:30 PM</b>                  | <b>Final Remarks</b>  |

## **SYMPOSIUM VENUE**

### **HILTON HAWAIIAN VILLAGE RESORT SOUTH PACIFIC ROOM 1**

2005 Kalia Rd  
Honolulu, HI 96815  
800-346-8357

(Hawaiian Shirts and Slacks or similar dress)

## **SYMPOSIUM FEE**

**THERE IS NO REGISTRATION OR SYMPOSIUM FEES  
ATTENDANCE BY INVITATION ONLY**

## **HOTEL INFORMATION**

### **HILTON HAWAIIAN VILLAGE**

2005 Kalia Rd  
Honolulu, HI 96815  
800-346-8357

**For a complete map of Oahu Island and more hotel information in the vicinity of  
Hilton Hawaiian Village, please refer to the following website**

<http://www.spotlighthawaii.com/oahu/oahumap1.asp#>