



Australian Government
Department of Defence
Defence Science and
Technology Organisation

Technical Interaction Opportunities: Pacific 2006

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Outline

- DSTO
- Collaborative S&T Agreements in the Maritime Domain
- Potential Growth Areas for the Future
- ACTDs/CTDs and the Coalition Warfare Program
- Contacts

Defence Science and Technology Organisation



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- 2300 Staff
- Mission to provide expert application of S&T to all of Defence (extending to 'homeland security')
- Client base includes all services, intelligence agencies and more recently, homeland security agencies
- 6.1, **6.2**, 6.3, 6.4, 6.5
- Participant in previous PACIFIC conferences



Current Arrangements 1

- TTCP (5-Eyes Gov't to Gov't with invited industry participation)
 - MAR Group
 - Technical Panels
 - C2 and Information Management
 - Maritime Systems Studies
 - Sonar Technology
 - Maritime ISR
 - Maritime Mine Warfare
 - Action Groups (Potential Tech Panels)
 - Netcentric Warfare Studies
 - Novel Maritime Platform Systems
 - Torpedo Defence
 - Surface Ship Self Protection
 - Surface Ship Air Defence Systems



Current Arrangements 2

- Bi-lateral Examples (2 Eyes, Gov't to Gov't with invited Industry Participation)
 - Submarine Combat Systems Functional Architecture, Techniques and Technology Underwater Range Technology
 - Advanced Armament Technologies (Metal Storm Project)
 - Coalition Readiness Integrated Management System (CReaMS)
 - 4 Over-the-Horizon radar with USN



Current Arrangements 3

- Data Exchange Agreement Examples
 - 21 Active Maritime related agreements
 - Underwater Range Technology
 - Underwater Physiology
 - Navy Tactical C4 and supporting systems
 - Naval Surface Ship Design
 - Anti-submarine and Anti-surface ship torpedo Weapon System
 - Mine Warfare
 - Submarine Atmosphere Monitoring and Purification
 - Submarine Safety
 - Shipboard Environmental Systems and Technology
 - Surface Warfare Systems Technology
 - Surface Ship Torpedo Defence
 - Insensitive Munitions

Future Opportunities: DSTO Major S&T Initiatives



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- Automation of the BattleSpace
 - Unmanned Maritime Related Capability
- Counter-Terrorism
 - Maritime Situational Awareness and Interdiction
 - Homeland Security/Defence
- Experimentation
- Missile Defence
 - Maritime based components
- Network-Centric Warfare
 - FORCENET
- Reducing Cost of Ownership
- Smart Materials

ACTDs/CTDs and the Coalition Warfare Program (CWP)



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- AUD25M/yr in Australian CTD program
- AUD2-5M projects
- US/AUS looking to harmonize ACTD/CTD where appropriate. New Australian engagement committee
- CWP could use funds to “Coalitionize” ACTDs
- Working to engage on ACTDs at proposal development stage
 - PACOM, ONR
- AS&C Coalition Focus
- Opportunity for Industry Partnerships to assist in developing joint ACTD/CTD proposals?



Contacts

- DSTO participated in previous PACIFIC conferences
- Maritime Key Contacts
 - Nanda Nandagopal (Corporate Leader)
 - David Heilbronn (Maritime Operations)
 - David Wyllie (Maritime Platforms)
 - Contact through:
Darren Sutton (Maritime Science Advisor:
darren.sutton@defence.gov.au)
- CTD Program
 - Andrew Arnold (Andrew.arnold@defence.gov.au)
- ACTD Embassy Liaison
 - Rod Barnes (condsa@usa.defence.gov.au)