

Tuesday 8 November 2011 - Science & Technology

0730-0830	Registration and Coffee	Crowne Plaza breakout area (top floor)
0830-0845	Welcome	RADM Peter Clarke RAN Rtd - Master of Ceremonies; and Mr Peter Horobin MBE FAICD - President, SIA
Session 1: Defence Science and Technology Organisation (DSTO and Defence And Systems Institute (DASI))		
0845-0905	Trends in Autonomous Underwater Vehicles	Professor Anthony Finn - DASI
0910-0930	The Requirements for Defence S&T in the FSM Program	Dr David Kershaw - Research Leader, Submarines, DSTO
0935-0955	Submarine Support - Lessons Learned the Hard Way	Mr Jock Thornton - DASI
0955-1015	Morning Coffee Break: Sponsored by IMAGINit Technologies Pty Ltd	Crowne Plaza breakout area
1015-1035	Systems Engineering - the Key to Successful Submarine Building	Professor Stephen Cook - DASI
1040-1100	Test & Evaluation and Trials Management - Timing is Everything	Dr Vivian Crouch - DASI
1105-1125	Networked Subsea Communications - MASQ - Developments, Applications, Results	Mr Paul Roberts - Project Manager, L-3 Communications Nautronix Ltd
1130-1150	Designing and Building Australia's Future Submarine	Mr Jim Duncan - Representing ThyssenKrupp Marine Systems
1155-1210	Questions & Answers	Master of Ceremonies and Speakers from Session 1
1210-1310	Lunch sponsored by Saab Systems Pty Ltd	Crowne Plaza breakout area
Session 2: Academia and Industry		
1310-1330	Recent Developments in Submarine Vibration Isolation and Noise Control	Dr Carl Howard - University of Adelaide School of Mechanical Engineering
1335-1355	Developments in Compression Ignition Engines	Dr Manfred Zockel - University of Adelaide School of Mechanical Engineering
1400-1420	Experimental and Computational Investigation into the Hydrodynamics of Conventional Submarines	Professor Dev Ranmuthugala - Australian Maritime College (AMC), Launceston, Tas
1425-1445	Afternoon Coffee Break: Sponsorship opportunity	Crowne Plaza breakout area
1445-1505	Submarine Energy and Propulsion Considerations	Mr David Williams - Engineer, Deep Blue Tech Pty Ltd
1510-1540	Passive Target Motion Analysis from Bearings and Multipath Time Delay Measurements	Ms Laleh Badriasi - PhD Student, School of Electrical and Information Engineering, University of SA
1535-1555	Questions & Answers	Master of Ceremonies and Speakers from Session 2
1600-1620	Expert Panel Discussion	Presenters from Day 1
1620-1625	Closing Comments - Day 1	Mr Peter Horobin - President, Submarine Institute of Australia
1645-1715	Opportunity to inspect Anechoic Chamber and other related facilities	University of Adelaide (tbc)
1830-2030	Opening Cocktail Party sponsored by MacTaggart Scott Australia Pty Ltd	Crowne Plaza breakout area

Wednesday 9 November 2011 - Plenary Session

0745-0845	Registration and Coffee	Crowne Plaza breakout area (top floor)
0845-0900	Welcome	RADM Peter Clarke RAN Rtd - Master of Ceremonies; and Mr Peter Horobin MBE FAICD - President, SIA
Session 3: Keynote Addresses		
0900-0910	Welcome to South Australia - the Defence State	Premier of South Australia (invited)
0910-0930	Opening Address	The Hon Stephen Smith MP - Minister for Defence (invited)
0935-1000	My perspectives about submarines	VADM Ray Griggs AM CSC RAN - Chief of Navy
1005-1030	Lessons Learned from the UK Successor Program	RADM Steve Lloyd, RN - Programme Manager, UK 'Successor' Programme
1030-1050	Morning Coffee Break: Sponsorship Opportunity	Crowne Plaza breakout area
1015-1035	The Challenges for Australia in undertaking the Future Submarine (FSM) Program	RADM Rowan Moffitt AO RAN - Head FSM Program
1125-1150	The Future Submarine as a Nation-Building Activity	Mr Stephen Ludlam - Chief Executive Officer, ASC Pty Ltd
1155-1205	Questions & Answers	Master of Ceremonies and Speakers from Session 3
1205-1310	Lunch sponsored by Pacific Marine Batteries Pty Ltd	Crowne Plaza breakout area
Session 4: Engineering Workforce Planning		
1310-1335	Workforce Development for the FSM Program	RADM Peter Briggs AO, CSC, RAN Rtd - Chairman, Defence Science Institute Advisory Board
1340-1405	Developing and Sustaining Engineering Talent for large capital Naval Projects	Mr Jeff Owen - Director - Future Business - Marine & Technology Division, Babcock International Group
1410-1435	Engineering Masters Programs to support Submarine Design and Maintenance	Dr Margaret Law - Innovation Manager, ASC Pty Ltd
1440-1500	Afternoon Coffee Break: Sponsorship opportunity	Crowne Plaza breakout area
1505-1530	Delivering a World-Class Submarine Capability for Australia	Ms Wendy Wates - Strategic Business Development, QinetiQ Pty Ltd
1535-1600	Managing the Transition from Construction to Support	AVM Chris Deeble - Program Manager, Collins and Wedgetail, DMO
1605-1630	Facing the Technical Challenges of the Future Submarine - the Coalition's Perspective	Senator the Hon David Johnston - Shadow Minister for Defence
1630-1645	Questions & Answers	Master of Ceremonies and Speakers from Session 4
1830-1900	Pre-Dinner Drinks sponsored by BAE Systems Pty Ltd	National Wine Centre - corner Botanic & Hackney Street, Adelaide
1900-2230	Conference Dinner sponsored by Sonartech Atlas Pty Ltd Dinner Wines sponsored by Navantia	National Wine Centre Dinner Speaker: H.E. RADM Kevin Scarce AC CSC RANR - Governor of South Australia

Thursday 10 November 2011 - Plenary Session

0700-0830	13th Annual General Meeting of the SIA (Members Only)	Hindmarsh 1, Crowne Plaza		
0800-0840	Day 3 Registration and Coffee	Crowne Plaza breakout area (top floor)		
Session 5: Technical Papers (in association with the Australian Society for Defence Engineering)				
	Stream A: Hull, Mechanical and Electrical Hindmarsh 1	Stream B: Combat Systems, Communications Hindmarsh 2	Stream C: Systems Engineering, Safety, Design and Logistics Support Hindmarsh 3	Stream D: Submarine Energy and Uninhabited Vehicles Hindmarsh 4
0840-0900	Welcome and Review of the Program for the Day Chair: TBA	Welcome and Review of the Program for the Day Chair: TBA	Welcome and Review of the Program for the Day Chair: TBA	Welcome and Review of the Program for the Day Chair: TBA
0900-0925	Electric Actuation of Submarine Equipments - Niall Skinner , MacTaggart, Scott and Company (presented by Brian Foster)	The Need for a Systems Engineering/Architectural Approach to the Design of Submarine Mission Systems - Michael Irrgang , Engineering Director, Raytheon Australia Pty Ltd	Designing for the Future - Modularity and Transformability in Submarine Design - Gunnar Öhlund , Senior vice President, Kockums AB	Air-Independent Propulsion Based on Fuel Cells and Methanol Reforming - Peter Hauschildt , Director R&D/ Conceptual Design/ German Navy, Howaldtswerke-Deutsche Werft GmbH
0930-0955	Dynamics of the Swash Plate Mechanism - Josh Trainor , Chief Engineer, Rix Industries	Augmenting the Collins AN/BYG-1: Supporting In-Country Combat System Capability Evolution - Ted Huber , Managing Director, Acacia Research Pty Ltd and Graham Smith , Technical Operations Manager, Lockheed Martin Australia Electronic Systems	Achieving the Goal of a Submarine Modular Mission Payload System - Sean Williams and Tim Whitten , Babcock	Electrical Platform and Fuel Cell-based AIP Systems for Submarines - Albert Hammerschmidt , Director PEM Fuel Cells, Siemens
0955-1015	Morning Coffee Break: Sponsored by Moog Inc.		Crowne Plaza breakout area	
1015-1040	Innovative Solutions to reduce the Environmental Impact of Future Submarines - Eric Fusil , Naval Architect, DCNS	Developing Proven Submarine Combat System Technology to Future Customer Needs - Alfred Schulte , Chief Technical Officer, Sonartech Atlas Pty Ltd	Early Phase Availability Modelling - Chris Edmonds and Tammy Chau , Babcock	S-80 AIP System - Antonio Pérez de Lucas , Director Engineering and Innovation, Navantia
1045-1110	Electrohydrostatic Actuators for Control of Undersea Vehicles - Steve Smith and PEJ Irving , Moog Industries	The Benefits of Wireless Networking Technology for use in existing and future submarines - Martin Childs , Platform Systems Manager, ASC Pty Ltd	Model-based Systems Engineering and its Application to Submarine Design - Paul Pearce , Lead Systems Engineer, Deep Blue Tech Pty Ltd	S-80 AIP System Land-Based Test Site - Amos Fuentes , Managing Director, Shipyard, Navantia
1115-1140	A search method for localising a noise source on a submarine - Stewart Kanev , Specialist Signatures Engineer, ASC Pty Ltd	Networks of Underwater Systems - Craig Benson , Senior Lecturer, ADFA	Early Stage Tools for Submarine Design - "Boat-by-Numbers" - Paul Plant - A/Concept Team Leader, Deep Blue Tech Pty Ltd	Naval Architecture Challenges for the Integration of UUVs in Submarines - Eusebio-Ángel Martínez-Conesa , Navantia
1145-1210	Submarine Manoeuvring and Appendage Design - Martin Renilson , Technical Director, Renilson Marine Consulting Pty Ltd	Virtual Ship Training and Information Systems (ViSTIS) for Submarines - Tom Reynolds , BD Manager, Maritime KBR Pty Ltd	The S-80 Submarine Building Program - Captain Nicolas Monereo , S-80 Head of Program, Spanish Armada	Design and Development of a Small, Low-Cost UUV for Shallow Water Operations - Nicholas Gover , Student, ADFA
1210-1310	Lunch: Sponsored by Siemens Pty Ltd		Crowne Plaza breakout area	

Thursday 10 November 2011 - Plenary Session

Session 5: Technical Papers (in association with the [Australian Society for Defence Engineering](#))

	Stream A: Hull, Mechanical and Electrical Hindmarsh 1	Stream B: Combat Systems, Communications Hindmarsh 2	Stream C: Systems Engineering, Safety, Design and Logistics Support Hindmarsh 3	Stream D: Submarine Energy and Uninhabited Vehicles Hindmarsh 4
1315-1340	Human Factors and Habitability - Anders Folbert , Team Leader, Deep Blue Tech Pty Ltd	High Capacity Underwater Communications - Craig Benson , Senior Lecturer, ADFA	An Integrated Data Environment for the Future Submarine in Australia - Malay Pal , Director, Shipbuilding, Siemens Industry Software, India	Design and Development of a "6-Inch Submarine" - Joshua Fearnley , ADFA
1345-1410	Development of Composite Pressure Vessels for Submarine External Stowage - Dan Miller , Engineering Services Manager (SA), ASC Pty Ltd	Periscopes and Optronics - Future Submarine Visual Systems - Adam Waldie , Business Development Manager (Submarines), Thales Underwater Systems and Alan Stevenson , Optronics Sales Director, Thales Optronics Limited (UK)	Establishment of a Cost-Effective Submarine Support Capability in Canada - Michel Bouchard - President, Canadian Submarine Management Group	6-DOF Particle Filter-based Navigation System for AUV - Andrew Lammas , PhD Student, Flinders University
1415-1440	Development of a Capability for Measuring Dewpoints at High Pressure for the Collins Class Submarine - James Gregor , ASC Pty Ltd	Submarine Sonar - Outboard Acoustic Array Technologies - Tim Cain , Thales Australia Pty Ltd	Infrastructure Considerations of Possible Investment in an SSN Option - Jock Thornton , University of South Australia	The Utility of Virtualisation Technologies to Combat Submarine Combat System Obsolescence - David Culpin , Engineering Manager, Raytheon Australia
1440-1510	Afternoon Coffee Break: Sponsored by Hynergreen Technologies, S.A.		Crowne Plaza breakout area. Rooms to be reconfigured.	
1515-1545	Open Forum		MC and all Authors of Day 3 papers	
1550-1610	Closing Remarks		President SIA	