

International Maritime Conference 2010 Program

Program current at time of printing, all program changes will be posted on the noticeboard near the registration desk at the Conference.

Tuesday 26 January 2010		
1200 - 1700	Advance Registration, Parkside Foyer, Sydney Convention and Exhibition Centre	
DAY ONE Wednesday 27 January 2010		
0700 - 1700	Registration	
0900 - 1000	Official PACIFIC 2010 Opening Ceremony, Parkside Auditorium Vice Admiral Russ Crane, AM, CSM, RAN; Chief of Navy Mr John Jeremy; Chairman, International Maritime Conference Organising Committee Rear Admiral David Holthouse, AO, RAN (Rtd); Chairman, Maritime Australia Limited	
Session Room	Parkside 110A	Parkside 110B
1000 - 1100	Session 1 - Our Future	Session 2 - Naval Ship Capability
	Engineering the Future - Youth and Challenges <i>RADM Nigel Guild, IMarEST</i>	Capability Analysis of Modular Multi-role Warships for Australia <i>J. Glanville, BMT Design & Technology</i>
	The future of Naval Research in Australia: should it be privatised, and what should it look like? <i>Prof. M. Renilson, Renilson Marine Consulting</i>	SEA-21: Facilitating Global Maritime Partnerships <i>RADM J.P. McManamon, Naval Sea Systems Command</i>
1100 - 1130	Morning Tea and Exhibition Viewing (Halls 4, 5 & 6)	
1130 - 1330	Session 3 - Shipbuilding	Session 4- Environmental Issues
	Shipbuilding under an Alliance Contract - The AWD Project <i>J. Gallacher, R. Equid, Air Warfare Destroyer (AWD) Project</i>	Meeting the Challenge of Risks from Climate Change <i>N. Peters, DNV</i>
	An approach to improve advanced outfitting practices in ship construction - automatic scheduling system <i>Y. Wei, U. Nienhuis, Delft University of Technology</i>	Fitting Square Pegs into Ever-Changing Round Holes: Environmental Compliance Challenges in Modern Warship Design <i>J. Polglaze, URS Australia</i>
	Design and build of composite patrol boats <i>D. Firth, V. Corniani, Gurit Australia</i>	Biofouling: Implications for Performance <i>L. Fletcher, L. Montelli, A. Scardino, Defence Science And Technology Organisation</i>
		Analysis of the Economy of Fuel Cells used in Merchant Ships <i>L.E.Mangset, T. Tronstad, DNV</i>
1330 - 1500	Lunch and Exhibition Viewing (Halls 4, 5 & 6)	
1500 - 1730	Session 5 - Automation & Training	Session 6 - Safety and Stability
	Control of a System of UAV by Undersea Wireless LAN <i>S. Chan¹, R. Castillo¹, K. Lai², M. Syed³, ¹University of Western Sydney, ²National Center for Theoretical Sciences, ³DMO</i>	What happens when you start getting wet feet? The revised standard for buoyancy and stability after flooding <i>M. Flapan, National Marine Safety Committee Inc</i>
	Control Design for Positioning of Underwater Vehicles with Control Allocation <i>T. Perez, A. Donaire, Centre For Complex Dynamic Systems And Control - CDSC, The University Of Newcastle</i>	The Impact of a Goal Based Naval Ship Code on Naval Safety <i>R. Simpson, Lloyds Register EMEA</i>

	Enhancing shipboard crew safety-related behaviour: Is Crew Resource Management training the answer? <i>M. Grech¹, S. Burdekin², J. Taylor¹, D. Abraham-James³, ¹Defence Science and Technology Organisation, ²Australian Defence Force Academy, ³Australian Defence Force</i>	Using Potential Energy for Static Stability Analysis <i>R. Dunworth¹, DNPS, Department of Defence</i>
	Development of the vulnerability assessment tool CVAM to provide realistic damage control training scenarios <i>M. Skeen¹, M. Buckland, Defence Science and Technology Organisation</i>	Naval Landing Craft Stability Research <i>P. Hayes¹, W. Smith², M. Renilson³, S. Cannon⁴, ¹DNPS, Department Of Defence, ²ADFA@UNSW, ³Australian Maritime College, ⁴DSTO, Department of Defence</i>
		The Development and Application of a Damage Dynamic Stability Modeling Capability for Naval Vessels <i>T. Turner¹, E. Ypma², G. Macfarlane³, M. Renilson³, ¹Defence Science & Technology Organisation, ²Maritime Research Institute Netherlands, ³Australian Maritime College</i>
1730 - 1800	Exhibition Viewing (Halls 4, 5 & 6)	
DAY TWO Thursday 28 January 2010		
0800 - 1700	Registration	
Session Room	Parkside 110A	Parkside 110B
0830 - 1100	Session 7 - HMAS Sydney II	Session 8 - Ship Operations & Maintenance
	Finding HMAS SYDNEY and HSK KORMORAN <i>J. Perryman¹, RAN Sea Power Centre - Australia</i>	The Service Life Assessment Pilot Program <i>T. Eccles¹, R. Delpizzo², G. Ashe², S. Albrecht², ¹Naval Sea Systems Command, ²American Bureau of Shipping</i>
	A Forensic Analysis of the Wreck of HMAS Sydney II - Setting the Scene <i>J.C. Jeremy¹, Royal Institution of Naval Architects, Australian Division</i>	The Future of Nautical Charting and Navigation. <i>M. Prince¹, Australian Hydrographic Service</i>
	The Identification of Battle Damage to HMAS Sydney II <i>M. Buckland¹, G. Gamble, M. Skeen, L. de Yong, Defence Science and Technology Organisation, Maritime Platforms Division</i>	Use of modern navigation systems within complex maritime environments <i>M. Vierow¹, M. Christou, L-3 Nautronix</i>
	The Interpretation of the Evidence and Visualisation of the Sinking of HMAS Sydney II <i>L. De Yong¹, R. Neill, S. Cannon, Defence Science and Technology Organisation</i>	Vessel Identification & Positioning System (VIPS®) <i>D. Chew¹, Stratech Systems Limited</i>
	HSK Kormoran <i>M. Buckland¹, S. Cannon, Defence Science and Technology Organisation, Maritime Platforms Division</i>	Perils in the Pacific: Solutions for Interisland Shipping in the Pacific <i>J. Knox¹, Lightning Naval Architecture</i>
1100 - 1130	Morning Tea and Exhibition Viewing (Halls 4, 5 & 6)	
1130 - 1330	Session 9 - Naval Ship Technology	Session 10 - Maritime Research
	Naval Shipbuilding Quadrilateral - 'Thinking Outside the Box' <i>W. King¹, B. Robinson², A. Stiller³, B. Love⁴, R. Greenwood⁵, ¹Defence Materiel Organisation and Royal Australian Navy, ²United States Department of Defense, ³United Kingdom Ministry of Defence and Royal Navy, ⁴Canadian National Defence Headquarters and Royal Canadian Navy</i>	Configuration Management as a Risk-Based Tool in Managing Dependability of Complex Software-based Systems <i>B. Twomey¹, R. Smith², ¹Lloyds Register EMEA, ²Lloyd's Register Rail</i>
	An open forum discussion on lessons learned and opportunities to improve the	Transitioning towards Condition-Based Maintenance through Enhanced Decision Support Tools <i>L. Hammond¹, P. Kelly², J. Sikorska², ¹DSTO, ²CASWA Pty Ltd</i>
		Hydroelastic Response of a Segmented Frigate Model <i>B. Morris¹, C. Hutchison², G. Thomas², B. Phelps¹, T. Lillenthal², ¹Defence Science And Technology Organisation, ²Australian Maritime College</i>

procurement of naval ships and submarines.

Modern Hybrid Propulsion Solutions and HTS (High Temperature Superconducting) Propulsion Technology
M. Wycisk, Siemens Marine Solutions

1330 - 1500	Lunch and Exhibition Viewing (Halls 4, 5 & 6)	
1500 - 1700	Session 11 - Ship Design	Session 12 - Maritime Safety
	Propulsion System Solutions For Today's And Future Naval Vessels <i>S. Mueller, MTU Friedrichshafen</i>	Marine Casualty Investigation - the new Australian Transport Safety Bureau <i>P. Foley, Australian Transport Safety Bureau</i>
	Optimization Procedure as a Decision Tool for Ship Design <i>J. Vasconcellos, COPPE/UFRJ</i>	Maritime and Marine Emergency Response Integrated Emergency Management <i>N. Bumpstead, Country Fire Authority Victoria</i>
	The Development of an 80m Multi-Role Trimaran Vessel, based on commercial and LCS2 design experience <i>T. Speer, T. Armstrong, Austal Ships</i>	Uniform Operating Limitations for High-Speed Craft <i>R. Gehling, Australian Maritime Safety Authority</i>
	Aerodynamic modeling for the design of multi spot helicopter landing operations <i>Y.J. Kim¹, G. MacDonald², T. Rafferty³, ¹BMT WBM, ²BMT D&T, ³Defence Material Organisation</i>	Fixed Water Mist System Implementation within the RAN <i>I. Raymond, B. McNeice, J. Colquhoun, Directorate Of Navy Platform Systems</i>
1700 - 1800	Exhibition Viewing (Halls 4, 5 & 6)	
1800 - 1930	IMC 2010 Welcome Cocktail Party - Australian National Maritime Museum, Darling Harbour	
DAY THREE	Friday 29 January 2010	
0800 - 1700	Registration	
Session Room	Parkside 110A	Parkside 110B
0830 - 1100	Session 13 - High Speed Craft	Session 14 - Submarine Design
	The Implications of High Speed Transits on Personnel <i>P. Elischer, D. Sanford, D. Wiese, Defence Science And Technology Organisation</i>	Implications of the Defence White Paper 2009 for Naval Submarine Technology in Australia <i>C. Skinner, Display Pty Ltd</i>
	The Prediction of Wetdeck Slam Loads on High-Speed Catamarans <i>M.R. Davis¹, J. Lavroff¹, B. French², G.A. Thomas², D.S. Holloway¹, T.R. Roberts³, ¹University of Tasmania, ²Australian Maritime College, ³Revolution Design Pty Ltd</i>	Operating concepts for next generation submarines <i>P. Dematte, Y. De Lassus, R. Zussino, DCNS</i>

	Resistance Prediction for Round-bilge and Hard-chine Catamarans <i>P. Helmore¹, F. Scott², D. Wong³, ¹University Of New South Wales, ²High Modulus, ³Fulsail Shipyard</i>	The Energy Mix Compromise in Submarine Design and its Effect on Capability <i>H. Torresan¹, R. Jarvis, Defence Science And Technology Organisation</i>
	Hydrodynamic Design Optimization of a Hard Chine Planing Craft for Coastal Surveillance <i>A. Mohamad Ayob¹, T. Ray, W. Smith, University Of New South Wales at Australian Defence Force Academy</i>	Australia's Submarine Research Strategy – Supporting the Needs of Australia's Future Naval Submarine Program <i>E. Dawson¹, BMT Design & Technology</i>
		Multi-engine Submarine Power Supplies: the Operating Case <i>J.E. Buckingham¹, J. Mann, BMT Defence Services Limited</i>
1100 - 1130	Morning Tea and Exhibition Viewing (Halls 4, 5 & 6)	
1130 - 1330	Session 15 - Materials	Session 16 - Submarine Design
	Effect of Commonly Used Diesel Biocides on the Corrosion Behaviour of Marine Grade Aluminium Alloys <i>L.M. Pedrina¹, P.L. Mart, Defence Science and Technology Organisation Melbourne</i>	Numerical and Experimental Analysis of a Surfaced Submarine in Beam Seas <i>B. Letter¹, D. Ranmuthugala¹, J. Duffy¹, Y. Tso², ¹Australian Maritime College, ²Defence Science and Technology Organisation</i>
	Flexible Composite Hydrofoils and Propeller Blades <i>N.L. Mulcahy¹, B.G. Prusty², C.P. Gardiner³, ¹Pacific Engineering Systems International Pty. Ltd, ²The University of New South Wales, ³Maritime Platforms Division, Defence Science and Technology Organisation</i>	Advanced Anchor System for Submarines <i>J. McLaughlin¹, C. Kestell², T. Andreasson¹, ¹ASC Pty Ltd, ²The University of Adelaide</i>
	Delamination Characterisation Of Curved Composites Using Acoustic Emission and Fibre Bragg Gratings <i>R. Raju¹, B.G. Prusty¹, D.W. Kelly¹, D. Lyons², G.D. Peng¹, ¹University Of New South Wales, ²EMP Composites</i>	Investigation into the Wave Making Resistance of a Submarine Travelling Close to the Surface <i>S. Wilson-Haffenden¹, E. Dawson², D. Ranumuthagala¹, M. Renilson¹, ¹Australian Maritime College, ²BMT Design & Technology</i>
	Marine Corrosion of 5XXX Aluminium Alloys <i>P.L. Mart¹, L.M. Pedrina, S. Russo, E. Pescott, DSTO Melbourne</i>	Liquid Oxygen Recharge System for Submarines <i>V. Grande¹, T. Andreasson¹, C. Howard², ASC¹, University of Adelaide²</i>
1330 - 1430	Lunch and Exhibition Viewing (Halls 4, 5 & 6)	
1430 - 1630	Session 17 - Ship Design	Session 18 - Weapons Systems
	Stability and Configuration Enhancements for the RNZN ANZAC Class Frigates – An Opportunity for Innovation <i>B. Longmuir¹, P. Goodin, Australian Marine Technologies Pty Ltd</i>	The AWD Combat System <i>J. Davis¹, AWD Alliance</i>
	ANZAC Ship Margin Management: Challenges And Opportunities <i>Z. Ahmed¹, M. Waugh, ANZAC Systems Program Office</i>	Modular Launch Systems for Submarines <i>M. Ratcliffe¹, J. Lynn, Babcock Integrated Technology Australia</i>
	Shipbuilding Challenges, Opportunities and Imperatives : The AWD Program <i>S. Ridgway¹, Air Warfare Destroyer (AWD) Project</i>	Safety Management of the Introduction of the Tomahawk Land Attack Missile into Royal Naval Service <i>P. Hogan¹, C. Brooking¹, A. Hodgetts, Frazer-Nash Consultancy</i>
	E-Craft, a Self-Transforming Vessel <i>P. Rispin¹, Office of Naval Research</i>	
1630 - 1700	Official PACIFIC 2010 Closing Ceremony, Parkside Auditorium Vice Admiral Russ Crane, AM, CSM, RAN; Chief of Navy Mr John Jeremy; Chairman, International Maritime Conference Organising Committee Rear Admiral David Holthouse, AO, RAN (Rtd); Chairman, Maritime Australia Limited The Sydney Detachment of the Royal Australian Navy Band	
1700 - 1800	Exposition Viewing (Halls 4, 5 & 6)	