

CONFERENCE PROGRAMME

○ Use the tick circles throughout the Programme to help plan your session attendance

WEDNESDAY 16 SEPTEMBER			
7.00am	Registration Open (Oceania Room)		
9.00am	Conference Opening (Soundings Theatre) <i>Mihimihi – Te Iwi Kāinga o Te Papa Tongarewa</i> <i>Dr Andrew Laing, Conference Chair</i> <i>Hon Dr Nick Smith, MP Nelson, Minister for the Environment and Minister for Climate Change Issues</i>		
9.40am	Opening Keynote (Soundings Theatre) Gary LaGrange <i>Rebuilding the Port of New Orleans</i>		
10.30am	Morning Tea – Trade Display (Oceania Room)		
	EVOLVING COASTS (Soundings Theatre) <i>Session Chair: Deidre Hart</i>	PORT DEVELOPMENT (Icon) <i>Session Chair: David Provis</i>	OCEANS AND RESOURCES (Rangimarie Room 1) <i>Session Chair: Kath Coombes</i>
11.00am–11.20am	1. Geomorphological Threats of Climate Change on the Gippsland Coast <i>Allan Charteris</i> ○	6. Assessment and Upgrading of Teluk Ewa Terminal, Malaysia <i>Wesley Wong</i> ○	11. Oceanography in the Public Interest: Tales from Raglan <i>David Phillips</i> ○
11.20am–11.40am	2. Integrated assessment of coastal hazards and climate change for Clarence City, Tasmania <i>James Carley</i> ○	7. Freeport of Riga – Development of RoPax and Cruise Terminal <i>Torsten Retzlaff</i> ○	12. Cook Strait: The Nexus in New Zealand's Coastal Oceanography <i>Craig Stevens</i> ○
11.40am–12.00pm	3. Intermittently open-closed lagoon entrance morphodynamics: Infilling, stability and climate change impacts <i>Bradley Morris</i> ○	8. Planning and Design for the Oakajee Port Development project in Western Australia <i>Richard Mocke</i> ○	13. Observations of secondary flow and upwelling at Cape Saunders, Otago Peninsula <i>Peter Russell</i> ○
12.00pm–12.20pm	4. Past, present and future evolution of coastal lagoons, Westland, New Zealand <i>Claire Kain</i> ○	9. Design and Construction Interactions with the Fergusson Terminal Expansion <i>Stephen Priestley & Alistair Kirk</i> ○	14. Origin of the grey carbonate sands on the beaches of Owen Anchorage, Western Australia <i>Michelle Carey</i> ○
12.20pm–12.40pm	5. Shoreline Evolution Modelling of the Catherine Point Region, Perth, Western Australia <i>Bradley Smith</i> ○	10. The Reinstatement of Bandy Creek Boat Harbour, Esperance <i>Rhys Jones</i> ○	15. Resource evaluation, exploration and current prospecting interests of west coast ironsands, North Island, New Zealand <i>Alan Orpin</i> ○
12.40pm	Lunch – Trade Display (Oceania Room) / New Zealand Coastal Society AGM (Rangimarie Room 1)		
	EVOLVING COASTS – MANAGEMENT (Soundings Theatre) <i>Session Chair: David Walker</i>	STRUCTURES AND ENGINEERING 1 (Icon) <i>Session Chair: Dick Carter</i>	MODELLING COASTAL WATERS 1 (Rangimarie Room 1) <i>Session Chair: Tarmo Soomere</i>
1.40pm–2.00pm	16. Coastal erosion of the Hawke Bay coastline from Napier to Cape Kidnappers <i>Richard Reinen-Hamill</i> ○	21. Extending asset life beyond design <i>Frederic Blin</i> ○	26. A Suspended Particulate Matter Transport Model with Satellite Data Assimilation <i>Heinz Günther</i> ○
2.00pm–2.20pm	17. Sediment Budget for an Episodic Injection on a High Energy Coast <i>Nicola Cowie</i> ○	22. Woody Point Jetty Reconstruction <i>Peter Cummings</i> ○	27. Hydrodynamic and Environmental Modelling in the Vicinity of Scott Reef <i>Morten Rugbjerg</i> ○
2.20pm–2.40pm	18. Establishing setback lines for land-use planning: a risk-informed approach <i>Ruben Jongejan</i> ○	23. DBCT 7X Project Marine Works <i>Arne Nilsen</i> ○	28. Modelling the initial formation of channel networks <i>Barend van Maanen</i> ○
2.40pm–3.00pm	19. The Challenges of Shoreline Erosion Management Planning in Queensland <i>Joris Jorissen</i> ○	24. Concrete Degradation in Precast Concrete Piles <i>Sue Freitag & Ahmad Shayan</i> ○	29. PartTracker – a fate analysis tool for marine particles <i>Benjamin Knight & Remy Zyngfogel</i> ○
3.00pm–3.20pm	20. The Potential for Offshore Sand Sources to Offset Climate Change Impacts on Sydney's Beaches <i>Angus Gordon</i> ○	25. Assessment of the Performance of Concrete Armour on Three Breakwater Heads in NSW <i>Indra Jayewardene</i> ○	30. Umuroa FPSO Oil Spill Incident, New Zealand, October 2007 <i>Sasha Zigic</i> ○

CONFERENCE PROGRAMME

WEDNESDAY 16 SEPTEMBER (CONTINUED...)			
3.20pm	Afternoon Tea – Trade Display (Oceania Room)		
	MANAGING HAZARDS AND CHANGE (Soundings Theatre) Session Chair: <i>Iain Dawe</i>	DREDGING 1 (Icon) Session Chair: <i>Stephen Priestley</i>	OBSERVING AND MEASURING COASTAL WATERS 1 (Rangimarie Room 1) Session Chair: <i>Alex Babanin</i>
3.50pm–4.10pm	31. Evaluating the state of New Zealand's coastal management <i>Scott Bremer</i>	36. Seismic Refraction Surveys – an Essential Tool for Port and Harbour Investigations <i>Jim Anderson</i>	41. Understanding Long Wave and Harbour Sieching Processes in Port Kembla Outer Harbour <i>Sean Garber</i>
4.10pm–4.30pm	32. Auckland Marinas' Occupation Charges- Tacking Against the Tide! <i>Hugh Leersnyder & Ingrid Leersnyder</i>	37. Geraldton Port: Dredging Limestone in Exposed Seastate Conditions with a Cutter Suction Dredge <i>Brendon Brodie-Hall</i>	42. Analysis of coastal wave field properties by using temporal sequences of radar images of the sea surface <i>Jose Carlos Nieto-Borge</i>
4.30pm–4.50pm	33. A web-accessed classification of New Zealand's coastal environment <i>Darcel Rickard</i>	38. Geraldton Port Enhancement Project – Dredge Performance versus Seismic Velocity in Limestone Material <i>Joel Bailey</i>	43. Observations of rip channels, sandbar-shoreline coupling and beach rotation at Tairua Beach, New Zealand <i>Karin Bryan</i>
4.50pm–5.10pm	34. Managing and Mitigating Biofouling Risks: Awareness, Policy, and Implications <i>Andrew Bell</i>	39. Prediction of Plume Generation and Movement from Dredging Operations in Port Phillip Bay, Melbourne <i>David Provis</i>	44. WaMoS II X-band radar wave profiles - examples from applications <i>Konny Reichert</i>
5.10pm–5.30pm	35. Indicator beaches on the Eastern Coromandel Peninsula, New Zealand <i>Andrew Wood</i>	40. Modelling of Dredge Plumes <i>Stuart Bettington</i>	45. Measurement of waves in a small-scale harbour basin using video monitoring technology <i>Luther Terblanche</i>
7.00pm	Gala Dinner sponsored by CentrePort (Wellington Foyer, Te Papa)		

THURSDAY 17 SEPTEMBER			
7.30am	Registration Open (Oceania Room)		
8.30am	Plenary Keynote Session (Soundings Theatre) Associate Professor Ron Cox <i>Climate change, impacts, vulnerability and adaptation options for coastal regions and ports</i>		
	STRUCTURES AND ENGINEERING 2 (Soundings Theatre) Session Chair: <i>Rob Tucker</i>	DISCHARGES AND DEPOSITS (Icon) Session Chair: <i>Peter Atkinson</i>	COASTAL MANAGEMENT 1 (Rangimarie Room 1) Session Chair: <i>Hugh Leersnyder</i>
9.20am–9.40am	46. Semaphore Park Offshore Breakwater – Rock Armouring a Sand Filled Geotextile Tube Trial Breakwater <i>James Guy</i>	50. Tidal components of flow at a proposed dredged material disposal site on the continental shelf, northeast New Zealand <i>Bryna Flaim</i>	54. Noosa Main Beach Algae Mitigation Trial <i>Bobbie Corbett</i>
9.40am–10.00am	47. Two-Dimensional Physical Modelling of Sand Filled Geocontainers for Coastal Protection <i>Ian Coghlan</i>	51. Understanding the transport and buffering dynamics of acid plumes within estuaries <i>Duncan Rayner</i>	55. Coastal structures: mapping their distribution and determining their impact on marine ecology <i>Nicole Hancock</i>
10.00am–10.20am	48. Prototype-scale laboratory study of groundwater manipulation within a gravel barrier <i>Ian Turner</i>	52. Chemical Spill Assessment Carried out for the Derwent River, Tasmania <i>James Donald & Sasha Zigic</i>	56. When the River stops running – maintaining a flood dominant coastal lagoon <i>Sarah Jewell</i>
10.20am–10.40am	49. Busselton Jetty: Wave Event Modeling and Structural Analysis <i>André Bartels</i>	53. Design of an Ebb Tide Release <i>William Glamore</i>	57. Implementing coastal hazard zones in planning policy: living with dynamic shorelines <i>Gavin Ide</i>

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THURSDAY 17 SEPTEMBER (CONTINUED...)				
10.40am	Morning Tea – Trade Display (Oceania Room)			
	PORT MANAGEMENT ISSUES (Soundings Theatre) <i>Session Chair: Dick Carter</i>	WAVES AND TSUNAMI (Icon) <i>Session Chair: Criag Stevens</i>	COASTAL MANAGEMENT 2 (Rangimarie Room 1) <i>Session Chair: Alan Orpin</i>	
11.10am–11.30am	58. Geelong Channels – Creating Navigation Aids for the 21st Century <i>John Milne</i>	63. A Global Multi-mission Altimeter Data Base <i>Ian Young</i>	68. Management options for shoreline erosion mitigation on an inshore island, Penguin Island, Western Australia <i>Michelle Carey</i>	
11.30am–11.50am	59. Ship Under-Keel Clearance Monitoring Using RTK GPS <i>Tim Gourlay</i>	64. Perth Offshore Wave Climate, Directional and Non-Directional Analysis, 1994 – 2008 <i>Lucya Roncevich</i>	69. Jimmys Beach Sand Renourishment Scheme <i>Indra Jayewardene</i>	
11.50am–12.10pm	60. Investigation into Bank Effect at Port of Townsville <i>Jonathan Duffy</i>	65. Observation of storm-generated long waves on New Zealand's eastern seaboard <i>Severin Thiebaut</i>	70. Beach Renourishment Works within a Marine Park <i>Phil Sharpe</i>	
12.10pm–12.30pm	61. Port of Melbourne – DUKC® Implementation <i>Giles Lesser</i>	66. Real-Time prediction method of Tsunami by using Artificial Neural Network <i>Tomohiro Yasuda</i>	71. Lakes Entrance Sand Management Program Overview <i>Catherine Masters & Andrew Fullard</i>	
12.30pm–12.50pm	62. The Ship Lift Ltd Dry-Dock System <i>Bill Hudson</i>	67. Tsunami Inundation Modelling using RiCOM <i>Emily Lane</i>	72. Oriental Bay Enhancement: A biodiversity spinoff for the Wellington CBD <i>Dean Miller</i>	
12.50pm	Lunch – Trade Display (Oceania Room)			
1.30pm–5.30pm	Field Trip A CentrePort and Wellington Coastline	Field Trip B Porirua / Kapiti Coast / Wellington Harbour	Field Trip C Project Westwind Windfarm / Wellington Region Coastline	Field Trip D Wellington Harbour Cruise / CentrePort

FRIDAY 18 SEPTEMBER				
7.30am	Registration Open (Oceania Room)			
8.30am	Plenary Keynote Session (Soundings Theatre) Professor Tarmo Soomere <i>Using wave and current dynamics to find solutions to the challenges of environmental change</i>			
	TOOLS FOR MARITIME INDUSTRY 1 (Soundings Theatre) <i>Session Chair: Richard Croad</i>	WAVES AND MODELLING (Icon) <i>Session Chair: Murray Smith</i>	COASTAL ECOLOGY (Rangimarie Room 1) <i>Session Chair: David Phizacklea</i>	
9.30am–9.50am	73. An integrated hindcasting approach to port and harbour design studies <i>Brett Beamsley</i>	76. The Depth-Limited Wind-Wave Spectrum <i>Ian Young</i>	79. The Benthic ecology of expanding mangrove habitat, Tauranga Harbour, New Zealand <i>Debra Stokes</i>	
9.50am–10.10am	74. The Use of Numerical Modelling in Assisting Port Development – Case Study Port Hedland <i>Alexis Berthot</i>	77. Numerical Study of Options to Reduce Swell and Long Wave Penetration at Port Geraldton <i>Peter McComb</i>	80. A LOICZ nutrient budget of two shallow tidally-dominated estuaries with contrasting catchments <i>Yvonne Tay</i>	
10.10am–10.30am	75. Integration of a cooling water outflow in the Rotterdam harbour extension <i>Frank Dekker</i>	78. Wave Transmission for Low Crested Geotextile Breakwater Structures <i>Matthew Blacka</i>	81. Observations and Froude Number Calculations from the Taieri River, a Salt Wedge Estuary <i>Cerys Bailey</i>	
10.30am	Morning Tea – Trade Display (Oceania Room)			

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FRIDAY 18 SEPTEMBER (CONTINUED...)			
	TOOLS FOR MARITIME INDUSTRY 2 (Soundings Theatre) Session Chair: Neil Lawson	CLIMATE AND SEA LEVEL 1 (Icon) Session Chair: Rob Bell	OBSERVING AND MEASURING COASTS 2 (Rangimarie Room 1) Session Chair: Karin Bryan
11.00am–11.20am	82. Changes in currents caused by ribbon marine farms in an embayment <i>David Plew</i>	87. Urban Heat Islands and their influence on Coastal Climates <i>David Walker</i>	92. An empirical model of beach response to storms - SE Australia <i>Mitchell Harley</i>
11.20am–11.40am	83. Assessing cross-shore dynamics for a cable landfall <i>Arjen Luijendijk</i>	88. Impact of wave mixing of the upper ocean in climate modelling <i>Alexander Babanin</i>	93. Field and video observations of morphological change during a large-scale, multi-institutional experiment (ECORS) <i>Giovanni Coco</i>
11.40am–12.00pm	84. Consideration of Vessel Induced Hydrodynamics in Shipping Channel Design <i>David Taylor</i>	89. Canute's Dilemma (sea level rise) <i>Angus Gordon</i>	94. Measuring Gravel Transport at a Prograding and Transgressive Barrier <i>John White</i>
12.00pm–12.20pm	85. Highly accurate measurement of small-scale ship motions <i>Wim van der Molen</i>	90. Estimation of Relative Mean Sea Level Rise from Fort Denison Tide Data <i>Zai-jin You</i>	95. Sediment Dynamics of Ahuriri Estuary, Napier, New Zealand <i>Tracey Eyre</i>
12.20pm–12.40pm	86. Numerical modelling of moored vessel motions caused by passing vessels <i>Simon Mortensen & Craig Alley</i>	91. Predicting Extreme Sea Surface Height and Coastal Inundation from Tides, Surge and Wave Setup <i>Philip Gillibrand</i>	96. Sediment fallout from dense outfall plumes <i>Tony Webb</i>
12.40pm	Lunch – Trade Display (Oceania Room)		
	STRUCTURES AND ENGINEERING 3 (Soundings Theatre) Session Chair: Rob Tucker	WAVE HAZARDS (Icon) Session Chair: Doug Lord	MODELLING COASTAL WATERS 2 (Rangimarie Room 1) Session Chair: Rick Liefing
1.40pm–2.00pm	97. Use of Field Trials to Assess Ground Improvement at the Port of Brisbane <i>Tine Birkemose</i>	101. Surfzone bathymetric control on wave setup on beaches <i>Scott Stephens</i>	105. An examination of the fixed river bed assumption in hydrodynamic modelling <i>Hamid Mirfenderesk</i>
2.00pm–2.20pm	98. A successful trial of vacuum consolidation at the Port of Brisbane <i>Philippe Vincent</i>	102. Predicting Hazardous Conditions on Coastal Rock Platforms <i>Tom Shand</i>	106. Bed Shear Stress in Unsteady Flow <i>Paul Guard</i>
2.20pm–2.40pm	99. Shoreline response to an offshore submerged multifunction reef at Mount Maunganui, New Zealand <i>Simon Weppe</i>	103. Quantifying the impact of wave overtopping on the Adelaide foreshore <i>Murray Townsend</i>	107. Assessment of Potential Ship Induced Scour of Cohesive Sediments <i>Christopher Carboon</i>
2.40pm–3.00pm	DREDGING 2 (Soundings Theatre) Session Chair: 100. Towards a dredging strategy for the Peel-Harvey Estuarine System, Western Australia <i>Kellie Holloway</i>	104. Extreme Wave Overtopping of a Vertical Breakwater. A Physical Model and Desktop Investigation <i>Alessio Mariani</i>	108. Maximising energy capture by fixed orientation tidal stream turbines in time-varying off axis current <i>Tim Divett</i>
3.00pm	Afternoon Tea – Trade Display (Oceania Room)		

CONFERENCE PROGRAMME

FRIDAY 18 SEPTEMBER (CONTINUED...)			
	DREDGING 2 (CONTINUED...) (Soundings Theatre) Session Chair: David Provis	SEA LEVEL 2 (Icon) Session Chair: Murray Townsend	MODELLING COASTAL WATERS 3 (Rangimarie Room 1) Session Chair: John Lumsden
3.30pm–3.50pm	109. Comparison of Seabed Sampling Methods in the Port of Dampier, Western Australia <i>Brendon Brodie-Hall</i>	112. Application of Extreme Value Analysis in Estimating Extreme Return Value Water Levels in Melbourne <i>Christopher Carboon</i>	115. Dominant hydrodynamic processes at Port Stephens, NSW, Australia: A numerical modelling study <i>Angela Wenping Jiang</i>
3.50pm–4.10pm	110. Development of a dredge plume 'library' for environmental assessment of dredging <i>Jared Stewart</i>	113. Extreme Sea-Level Analysis using an Empirical Simulation Technique <i>Derek Goring</i>	116. Laboratory investigation of an ebb tidal jet <i>Claire Biggs</i>
4.10pm–4.30pm	111. Modelling the marine environmental impacts of dredge operations in Cockburn Sound, WA <i>Nuala Fitzpatrick</i>	114. Probabilistic modelling of coastal recession due to sea level rise <i>Roshanka Ranasinghe</i>	117. Hydrodynamic Modelling of Whaingaroa (Raglan) Harbour <i>Shawn Harrison</i>
4.30pm–4.50pm	Plenary Conference Close Session (Soundings Theatre) Prizes and Awards 2011 Conference Announcement		