



# NSW COASTAL CONFERENCE

*The Next wave*

8-10 NOVEMBER 2017  
SHOAL BAY COUNTRY CLUB  
PORT STEPHENS, NSW

## CONFERENCE PROGRAM

(as at 26<sup>th</sup> October, subject to change)

### Tuesday 7<sup>th</sup> November

- 8.30am Pre-Conference Workshop Registration
- 9.00am – 4.30pm Pre-Conference Workshop  
“How Cost Benefit Analysis informs Coastal Hazard Management Decisions by Local Councils” (additional cost)
- 5.00pm – 6.00pm Optional Welcome Drink & Conference Registration,  
Whitesands Convention Centre Lobby, Shoal Bay Country Club

### PROGRAM - Day 1 Wednesday 8 November

- 8.00am Conference Registration, Whitesands Convention Centre Lobby,  
Shoal Bay Country Club

#### Session 1: Plenary 8.45am – 10.35am Location: Whitesands

- 8.45am Welcome to Country
- 9.00am Conference Opening  
**Mr Scot MacDonald MLC**, *Parliamentary Secretary for Planning, the Central Coast and the Hunter*
- 9.15am Conference Welcome from Host Council  
**Councillor John Nell**, *Port Stephens Council*
- 9.30am "Marine wonders of the Port Stephens-Great Lakes Marine Park"  
**Dr David Harasti**, *Fisheries NSW - Department of Industry*
- 10.10am **Andrew Smith**, *Worimi Local Aboriginal Land Council*

#### 10.35am – 11.00am Morning Tea

Session 2: Concurrent		11.00am – 12.30pm	
	<b>2A: Inherited Landscapes</b>	<b>2B: What's It Worth?</b>	<b>2C: Coastal Protection</b>
<b>Location:</b>	Star Room	Sea Room	Sun Room
<b>Chair:</b>	Peter Evans	Philippa Hill	Kurt Laboyrie
<b>11.00am – 11.20am</b>	Port Stephens: 200,000 Years of Change <b>Bruce Thom</b> <i>University of Sydney &amp; Wentworth Group of Concerned Scientists</i>	What's My Beach Worth? Economic Values of NSW Coastal Assets <b>Sean Pascoe</b> <i>CSIRO Oceans and Atmosphere</i>	Comparison of Hard and Soft Engineering Techniques for Erosion Control of Historic Rubbish Tip Sites on the Open Coastline in Port Fairy Victoria <b>Scott Elliott</b> , <i>Department of Environment, Land, Water and Planning</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>11.25am – 11.45am</b>	Mapping Sediment Cells in Western Australia <b>Alex Cowdery</b> <i>Fugro</i>	Valuing Natural Infrastructure in the NSW Marine Estate <b>Kylie Russell</b> <i>DPI</i>	Self-help for Steven the Seawall <b>Emma Graham</b> <i>Lake Macquarie City Council</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>11.50am – 12.00pm</b>	Shifting Sands: Documenting Nearshore Morphological Variability and Impacts on Shoreline Position Using Satellite Imagery <b>Annette Burke</b> <i>Macquarie University</i>	Maximising Community Wellbeing: Exploring the Relationship Between the Benefits That People Derive from the NSW Marine Estate and Threats to Those Benefits <b>Natalie Gollan</b> , <i>NSW DPI</i>	Cyclone Debbie, Lessons Learned: Shute Harbour, QLD <b>Matthew Prumm</b> <i>Cardno</i>
<b>12.00pm – 12.10pm</b>	NSW Marine Seabed Mapping <b>Dave Hanslow</b> <i>Office of Environment and Heritage</i>	Cultural Ecosystem Services Derived from Estuaries Important for Local People's Well-being, and Considerations of Continued Supply <b>Carol Martin</b> <i>University of Newcastle</i>	Using Eco-engineering to Increase Services Provided by Coastal Infrastructure <b>Mariana Mayer-Pinto</b> <i>The University of New South Wales</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>12.15pm – 12.35pm</b>	Identifying Sediment Compartment Dynamics of the Illawarra Coast <b>Rafael Carvalho</b> <i>University of Wollongong</i>	<b>12.15pm – 12.25pm</b> The Economic Value of Fisheries Harvest Supported from Saltmarsh and Mangrove Productivity in Two Temperate Australian Estuaries <b>Matt Taylor</b> , <i>Port Stephens Fisheries Institute</i>	<b>12.15pm – 12.25pm</b> Sydney's Most Overtopped Seawall <b>James Carley</b> <i>Water Research Laboratory, UNSW Sydney</i>

		<b>12.25pm – 12.35pm</b> Determining the Contribution of Estuarine Habitats to the Diets of Commercially Important Fisheries Species in the Hunter River <b>Vincent Raoult</b> <i>University of Newcastle</i>	<b>12.25pm – 12.35pm</b> The Stockton Coastal Protection Project - How SCS Built a 10,000T Seawall and Sand Dune in 12 Weeks <b>Ian Botha</b> <i>Soil Conservation Service</i>
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**12.35pm – 1.30pm Lunch**

<b>Session 3: Concurrent</b>		<b>1.30pm – 3.05pm</b>	
	<b>3A: Law and Policy</b>	<b>3B: Coastal Hazards</b>	<b>3C: Eco – Innovation</b>
<b>Location:</b>	Star Room	Sea Room	Sun Room
<b>Chair:</b>	Geoff Withycombe	Neil Kelleher	Peggy Svoboda
<b>1.30pm – 1.50pm</b>	Risky Business – Who is Legally Liable on the Coast? <b>Karen Coleman</b> <i>King &amp; Wood Mallesons</i>	A Method for Assessing Shoreline Response to Climate Change, Consistent with a Risk-based Hazard Assessment Framework <b>Michael Hughes</b> <i>Office of Environment and Heritage</i>	Australian Faunal Provinces: Are We Incorrectly Dividing the Coastline? <b>Matthew Kerr</b> <i>Macquarie University</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>1.55pm – 2.15pm</b>	The Next Wave of Coastal Planning Law: A Legal Update <b>Megan Hawley</b> <i>Lindsay Taylor Lawyers</i>	Coastal Erosion Hotspots in Western Australia <b>Tanya Stul</b> <i>Seashore Engineering / NCCOE</i>	Lost and Found: The Oyster Reef Restoration Opportunity <b>Kylie Russell</b> <i>DPI</i>
<b>5 min</b>	<b>Changeover</b>		<b>Changeover</b>
<b>2.20pm – 2.40pm</b>	State Against State, Mate Against Mate: An Examination of NSW and QLD State Government Coastal Management Frameworks <b>Paul Donaldson</b> <i>BMT WBM</i>	CIRIA Beach Management Manual - Beach Triggers <b>Nick Lewis</b> <i>Royal HaskoningDHV</i>	Options for Stabilising Estuarine Riparian Zones <b>Michael Taylor</b> <i>Soil Conservation Service</i>
<b>5 min</b>	<b>Changeover</b>		
<b>2.45pm – 3.05pm</b>	The Draft NSW Marine Estate Management Strategy - how will it benefit the coast and people of NSW? <b>Wendy Craik AM</b> <i>Chair NSW Marine Estate Management Authority</i>	East Coast Lows: A Wind, Rainfall and Inundation Hazard Database Showing Locations Most at Risk <b>David Taylor</b> <i>Baird Australia</i>	Finding a Path for Blue Green Innovation <b>Simon Rowe</b> <i>OceanWatch Australia</i>

**3.05pm – 3.35pm Afternoon Tea**

<b>Session 4:</b>		<b>Concurrent</b>		<b>3.35pm – 5.10pm</b>
	<b>4A: Community Chat</b>	<b>4B: Management Planning</b>	<b>4C: Wetlands</b>	
<b>Location:</b>	Star Room	Sea Room	Sun Room	
<b>Chair:</b>	Tom FitzGerald	Catherine Knight	Troy Gaston	
<b>3.35pm – 3.55pm</b>	Treading the Fine Line - Consultation on the Coast <b>Philippa Hill &amp; Elizabeth Akerman</b> <i>Port Stephens Council</i>	Implementing Lake Macquarie's CZMP – the Story So Far <b>Symon Walpole</b> <i>Lake Macquarie City Council</i>	PFAS Contaminants at Williamstown RAAF Base: Understanding Emerging Pollutants in a Connected System <b>Will Glamore</b> <i>Water Research Laboratory, UNSW</i>	
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	
<b>4.00pm – 4.20pm</b>	The Relationship of Conversations Along the Coast <b>Andrew Staniland</b> <i>MidCoast Council</i>	A Cultural Future - Managing Birubi Point Aboriginal Place <b>Pam Dean-Jones</b> <i>Umwelt Environmental Consultants</i>	Kooragang Wetlands: Retrospective of an Integrated Ecological Restoration Project in the Hunter River Estuary <b>Peggy Svoboda</b> <i>Hunter Local Land Services</i>	
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	
<b>4.25pm – 4.45pm</b>	Community Perceptions of Coastal Hazards <b>Anna Attard</b> <i>UNSW Sydney</i>	Supporting a Holistic Management Approach to the Sandy Beaches of Manly <b>Elianny Dominguez Tejo</b> <i>University of New South Wales</i>	Mangrove and Saltmarsh Threat Analysis in the Sydney Coastal Councils Region <b>Kerrylee Rogers</b> <i>University of Wollongong</i>	
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	
<b>4.50pm – 5.10pm</b>	Bye Coastal: A 'factitional' Walk Through Time on Australia's Edge <b>Garry Egger</b> <i>Australasian Society of Lifestyle Medicine</i>	<b>4.50pm – 5.00pm</b> Canal Estates Management. A partnership between Council and the community <b>Michael Strachan</b> <i>Shoalhaven City Council</i> <b>5.00pm – 5.10pm</b> Land Use Zoning Response To Climate Change <b>Helen Monks</b> <i>Highlight Consulting</i>	Finding the Right Balance – Replacing the Mambo Wetlands Culvert <b>Carlie McClung</b> <i>Port Stephens Council</i>	

**5.10pm Close of Day One**

**7.00pm Welcome Reception**, Broughtons at the Bay  
Sponsored by "NSW Department of Industry – Crown Lands"

**PROGRAM - Day 2****Thursday 9 November****8.30am Registration (for 1 Day delegates)****Session 5: Plenary****9.00am – 10.30am**  
Location: Whitesands**9.00am** Welcome to Day 2**9.05am** Address by Major Sponsor “Office of Environment & Heritage”**9.10am – 9.55am** “Living on the Edge: The Evolution of Coastal Management in New Zealand”  
*Raewyn Peart, Policy Director, Environmental Defence Society, NZ***9.55am** Address by Silver Sponsor “Local Land Services - Hunter”**10.30am – 11.00am Morning Tea****Session 6: Concurrent****11.00am – 1.00pm**

	<b>6A: Managing Risk</b>	<b>6B: Coastal Processes</b>	<b>6C: Getting Dirty</b>
<b>Location:</b>	Star Room	Sea Room	Sun Room
<b>Chair:</b>	John Hudson	Phil Watson	Brian Hughes
<b>11.00am – 11.20am</b>	Is Your Community Resilient? Best Practice Guidelines for Natural Hazard Resilience in the Built Environment <b>Tom Davies</b> <i>Edge Environment</i>	Modelling Inundation Extents of the June 2016 Storm Surge in Estuarine Environments Using Static and Dynamic Approaches <b>Kristian Kumbier</b> <i>University of Wollongong</i>	<b>11.00am – 11.10am</b> Beating Byron’s Bitou Bush – Further Expansion of the National Northern Containment Zone <b>Melinda Cox</b> <i>North Coast Local Land Services</i>
			<b>11.10am – 11.20am</b> Tree Stumps and Logs Recycled from Pacific Highway to Restore River Health <b>John Schmidt</b> <i>Office of Environment and Heritage</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>11.25am – 11.45am</b>	NSW Entrance Bar Management – Bar Crossing Safety And Bar To Beach: Linking Dredging Operations With Coastal Hazard Mitigation And Beach Amenity Improvements <b>Stuart Young &amp; Galen Lewis</b> <i>Manly Hydraulics Laboratory</i>	Wave Penetration into Waterways with Intermittently Closed Entrances <b>Ian Coghlan</b> <i>UNSW Water Research Laboratory</i>	Beresford Foreshore Coastal Protection Project – Getting Dirty in the West <b>Rick Plain</b> <i>Royal HaskoningDHV</i>

	<i>Session 6A continued</i>	<i>Session 6B continued</i>	<i>Session 6C continued</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>11.50am – 12.10pm</b>	Changing Rates of Sand Deposition at Pedro Beach, Southeastern Australia: Implications for Compartment-based Management <b>Tom Oliver</b> <i>University of Wollongong</i>	Measurements of Wave Overtopping on a Rocky Shore Platform <b>Hannah Power</b> <i>University of Newcastle</i>	Little Beach Boat Ramp – Understand the Big Picture, Get the Best Solution <b>Charlene Wellard</b> <i>Port Stephens Council</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>12.15pm – 12.35pm</b>	An Invisible Groyne for Beach Stabilisation <b>Lex Nielsen</b> <i>Advisian</i>	It's Time for an Update – Extreme Waves and Directional Distributions Along the New South Wales Coastline <b>Matthieu Glatz</b> <i>Manly Hydraulics Laboratory</i>	Prioritising On-ground Actions for Protecting Estuary Health, Using a Risk-based Framework and 'benefit' Maps Developed for Coastal Management Programs <b>Jocelyn Dela-Cruz</b> <i>Office of Environment and Heritage</i> <b>Jason Ruszczyk</b> <i>Northern Beaches Council</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>12.40pm – 1.00pm</b>	Bridging the Gap Between Ecological Risk Assessment and Risk Management Using Bowtie Analysis for Coastal Management Programs <b>Karen Astles</b> <i>NSW Fisheries</i>	Tweed Sand Bypassing Project - Follow That Sand! <b>Patrick Lawless</b> <i>Royal HaskoningDHV</i>	Reclaimed Land Reclaimed Again? Depends What Bag You Use to Clean Up the Mess <b>Ray Massie</b> <i>Shoalhaven City Council</i>

**1.00pm – 1.45pm Lunch**

**Session 7: FIELD TRIPS**

**1.45pm – 4.45pm**

	<b>Description (Afternoon Tea included on the Field Trip)</b>
<b>FT1</b>	Port Stephens Eastern Basin Boat Trip
<b>FT2</b>	Cultural Tour of Stockton Sand Dunes Worimi
<b>FT3</b>	DPI Fisheries Research Centre
<b>FT4</b>	Aquatic Habitat Rehabilitation – Tomago

**4.45pm Close of Day Two**

**7.00pm Conference Dinner & Annual NSW Coastal Management Awards  
Sponsored by "Royal HaskoningDHV", Wests Nelson Bay**

## PROGRAM - Day 3

Friday 10 November

8.30am

Registration (for 1 Day delegates)

Session 8:

Concurrent

9.00am – 11.00am

	8A: Adaptation	8B: A Bit Fishy	8C: Monitoring & Safety
<b>Location:</b>	Star Room	Sea Room	Sun Room
<b>Chair:</b>	Neil Kelleher	Natalie Moltschaniwskyj	Charlene Wellard
<b>9.00am – 9.20am</b>	The Poor Cousin: What it takes to make relocation viable <b>Allan Young</b> <i>EMM Consulting</i>	<b>9.00am – 9.10am</b> Fauna and Flora of the 'terra Nullius Zone': Considerations for Ecological Assessments of Estuarine Habitats <b>David Cummings</b> <i>Niche Environment and Heritage</i>	<b>9.00am – 9.10am</b> Prepared Councils Are Responsive Councils – Are You Ready? An Emergency Management Health Check Tool for Local Councils <a href="http://www.emhealthcheck.com.au">www.emhealthcheck.com.au</a> <b>Belinda Atkins</b> <i>Sydney Coastal Councils Group</i>
		<b>9.10am – 9.20am</b> Would You Like Some Salt(marsh) with Your Fish? <b>Heather Mitchell</b> <i>Clarence Valley Council</i>	<b>9.10am – 9.20am</b> Managing Boating Safety Risk and Amenity on Our Waterways - Transitioning to a New Safe Systems Approach <b>Michael Drake</b> <i>Transport for NSW</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>9.25am – 9.45am</b>	Managing Public Protected Areas on Dynamic and Ambulatory Shorelines <b>Bruce Coates</b> <i>Office of Environment and Heritage</i>	Building Policy And Best Practice Standards For Sustainable Aquaculture Development In NSW Waters <b>Ian Lyall</b> <i>NSW DPI</i>	Life Saving Technology – How Unmanned Aerial Vehicles (UAVs) Are Preventing Drowning Along the NSW Coastline <b>Steven Pearce</b> <i>Surf Life Saving NSW</i>
<b>5 min</b>		<b>Changeover</b>	<b>Changeover</b>
<b>9.50am – 10.10am</b>	The Jazz of Adaptation Planning <b>Sharon Pope</b> <i>Lake Macquarie City Council</i>	Sharks, Tags and Satellites – How Are They Helping Us to Be Shark Smart? <b>Natalie Moltschaniwskyj</b> NSW <i>Department of Primary Industries (Fisheries)</i>	CoastSnap: a Novel Community Beach Monitoring Program Using Smartphones and Coastal Imaging Technology <b>Mitchell Harley</b> <i>Water Research Laboratory, UNSW Sydney</i>

	<i>Session 8A continued</i>	<i>Session 8B continued</i>	<i>Session 8C continued</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>10.15am – 10.35am</b>	Relocating High Risk Residential Development from Coastal Hazard Zones: Realistic Adaptation or Unrealistic Aspiration? <b>Doug Lord</b> <i>Coastal Environment</i>	<b>10.15am – 10.25am</b> Delivering Fisheries Spatial Data – The Development of the Fisheries NSW Spatial Data Portal <b>Greg West</b> <i>NSW Department of Primary Industries</i>	<b>10.15am – 10.25am</b> Coastal Monitoring Reveals Large-scale Influences of Estuaries on NSW Rocky Reefs <b>Tim Glasby</b> <i>NSW DPI</i>
		<b>10.25am – 10.35am</b> Testing the Viability of Oyster Restoration to Enhance Biodiversity in Urbanised Estuaries <b>Victoria Cole</b> <i>University of Sydney</i>	<b>10.25am – 10.35am</b> Using Verified Photo Observations As an Early Indication of Range Shifts in the Marine Environment: the Value of Citizen Science <b>Troy Gaston</b> <i>University of Newcastle</i>
<b>5 min</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>10.40am – 11.15am</b>	<b>“The Next Wave”</b> <b>Facilitated Discussion on Closing the Gap between Policy and Implementation</b>	<b>“The Next Wave”</b> <b>Facilitated Discussion on Science and Information</b>	<b>“The Next Wave”</b> <b>Facilitated Discussion on Community Chat</b>

**11.15am – 11.45am Morning Tea**

**Session 9: Plenary**

**11.45am – 1.00pm**  
Location: Whitesands

**11.45am – 12.30pm “Loving Our Coast: Riding the Tide of Good Earth Emotions”**  
**Dr Glenn Albrecht, School of Geosciences, Sydney University, The Tom Farrell Environment Centre & University of Newcastle**

**12.30pm – 1.00pm Announcement for 2018 NSW Coastal Conference Host Council; Conference Closing & Wrap Up**

**1.00pm – 2.00pm LUNCH**