



27th ANNUAL
NSW COASTAL CONFERENCE
time for action 7-9 NOVEMBER 2018 MERIMBULA, NSW

CONFERENCE PROGRAM

(as at 4th November subject to change)

Tuesday 6th November

5.00pm – 6.00pm **Optional Welcome Drink**
Dulcie's Cottage

PROGRAM – DAY 1 Wednesday 7 November

8.00am **Conference Registration**
 Auditorium, Club Sapphire Merimbula

Session 1: **Plenary** 9.00am – 10.30am Location: Sapphire Room

9.00am **Welcome to Country**

9.10am **Conference Welcome from Bega Valley Shire Council**
Councillor Kristy McBain, Mayor of Bega Valley Shire Council

9.20am **Conference Opening**
Derek van Bracht, Bega Valley Shire Council

9.35am **Address by Major Sponsor “Office of Environment & Heritage”**
Michael Saxon, Office of Environment & Heritage

9.45am **“Towards a Better Understanding of the Role of the Ocean and Cryosphere in Coastal Risk and Resilience”**
Dr Kathleen McInnes, CSIRO Oceans and Atmosphere

10.30am – 11.00am **Morning Tea**

Session 2: **Concurrent** 11.00am – 12.35pm

	2A: New Science and Innovation	2B: Coastal Planning, Development and Engineering	2C: Changing Coasts
Location:	Sapphire Room 1	Sapphire Room 2	Tasman Room
Chair:	Derek van Bracht	Kurt Laboyrie	Tom FitzGerald
11.00am – 11.20am	Revealing the Contrasting Seabed of Two Adjacent Sediment Compartments and Potential Implications for Beach Response Michael Kinsela, Office of Environment & Heritage	Sustainable Entrance Management for ICOLLs of the NSW Sapphire Coast Matt Blacka, Water Research Laboratory	Community Perceptions of Coastal Hazards Robert Brander, UNSW Sydney

	2A Continued	2B Continued	2C Continued
5 min	Changeover	Changeover	Changeover
11.25am – 11.45am	Australian/NSW Coastal Sediment Compartments Andrew Short , <i>The University of Sydney</i>	Evaluating Coastal Recreational Infrastructure for Climate Change – A Workshop for Asset Managers and Engineers Galen Lewis , <i>Manly Hydraulics Laboratory</i>	11.25am – 11.35am Fairness in Sea-level Rise Planning: the Perspectives of Residents Living in Botany Bay Anne Maree Kreller , <i>UNSW Sydney</i> 11.35am – 11.45am Encouraging People to Take Positive Action Towards Our Oceans - Perspective from a Year 12 Student Georgia Poyner , <i>Narooma High School</i>
5 min	Changeover	Changeover	Changeover
11.50am – 12.10pm	NSW Extreme Ocean Water Levels in a Changing Climate Bronson McPherson , <i>Manly Hydraulics Laboratory</i>	Dune Enhancement to Solve Entrance Instability Christopher Adamantidis , <i>Advisian</i>	Woolooware Stage 6 Shared Pathway - 'It's All About the Birds' Mark Chigwidden , <i>Sutherland Shire Council</i>
5 min	Changeover	Changeover	Changeover
12.15pm – 12.35pm	12.15pm – 12.25pm Empirical Shoreline Wave Setup Hindcast Used to Estimate Extreme Total Water Levels for Australian Beaches Julian O'Grady , <i>CSIRO</i> 12.25pm – 12.35pm Assessing Oyster Reefs As a Strategy for the Bioremediation of Metal Contaminated Sediments in Urban Estuaries Carolina Mora , <i>The University of Sydney</i>	12.15pm – 12.25pm NSW Foredune Evolution: The Influence of Management, Vegetation and Sand Supply? Thomas Doyle , <i>University of Wollongong</i> 12.25pm – 12.35pm Coastal Flood Risk Within a Peri-urban Area: Sussex Inlet District, SE Australia Emma Asbridge , <i>University of Wollongong</i>	12.15pm – 12.25pm How Amenable is Amenity Nourishment on a Seawall? The Kingscliff Beach Case Study. Jane Lofthouse , <i>Tweed Shire Council</i> 12.25pm – 12.35pm Beach Scraping: Dune Building or Environmental Vandalism? A Case Study in New Brighton, Byron Shire NSW Marc Daley , <i>Office of Environment and Heritage</i>

12.35pm – 1.30pm Lunch & Poster Session in Trade Area

1.00pm – 1.30pm Poster Session, Auditorium

Session 3: Concurrent		1.30pm – 3.05pm	
	3A: Dangerous Ideas	3B: Estuary Research, Planning and Management	3C: Protecting Our Coast and Oceans
Location:	Sapphire Room 1	Sapphire Room 2	Tasman Room
Chair:	Marc Daley	Deborah Lenson	Michael Fiedler
1.30pm – 1.50pm	Configuration Dredging – an Innovative Solution to Foreshore Erosion Problems Ben Williams, Advisian	Do We Really Need Another Model? The Hunter River Estuary Case Study William Glamore, Water Research Laboratory	Innovative Approaches to Tweed River Bank Erosion Stabilisation Tom Alletson, Tweed Shire Council
5 min	Changeover	Changeover	Changeover
1.55pm – 2.15pm	Remote and Real-time: Lidar Monitoring to Inform ICOLL Entrance Management Matthew Phillips, Manly Hydraulics Laboratory	Thinking Big: Scoping a System-wide Stakeholder Driven Coastal Management Program for the 'Greater' Sydney Harbour Estuary Paul Donaldson, BMT Eastern Australia	Marine Debris – Engaging the Community and Developing Practical Long Term Solutions to Cleaning up the Coast Heidi Thomson, Eurobodalla Shire Council
5 min	Changeover	Changeover	Changeover
2.20pm – 2.40pm	Retreat: The Idea, the Reality and the Gap Inbetween Allan Young, EMM Consulting	2.20pm – 2.30pm Sydney Harbour Estuary Processes Study: Detailed Studies of Vulnerabilities and Opportunities Peter Freewater, Office of Environment & Heritage 2.30pm – 2.40pm Performance of Restoration and Rehabilitation Actions Seven Years After Water Pipeline Construction in the Hunter River Estuary Peggy Svoboda, Hunter Local Land Services	Building Resilient Coasts and Communities: Reflections from Dynamic Landscapes in North Queensland Elisa Zavadi, Alluvium Consulting
5 min	Changeover	Changeover	Changeover
2.45pm – 3.05pm	Holding Back the Tide in Uncertain Times Megan Hawley, Lindsay Taylor Lawyers	Storm Erosion and Recovery on NSW Estuarine Beaches: Botany Bay and Pittwater Shari Gallop, Macquarie University	2.45pm – 2.55pm What's in Our Waterways? Citizen-Science Seeks Microplastics! Roberta Dixon-Valk & Amanda Marechal, Take 3 Ltd 2.55pm – 3.05pm CoastSnap: Community Beach Monitoring in Your Pocket Rebekah Dowsett, Office of Environment and Heritage
3.05pm – 3.35pm Afternoon Tea			

Session 4:		Concurrent		3.35pm – 5.10pm
	4A: New Science and Innovation	4B: Coastal Planning, Development and Engineering	4C: SHOTS	
Location:	Sapphire Room 1	Sapphire Room 2	Tasman Room	
Chair:	Jane Lofthouse	Danny Wiecek	Norm Lenehan	
3.35pm – 3.55pm	UAVs – The Future of Coastal Surveillance and Hazard Identification Steven Pearce , <i>Surf Life Saving NSW</i>	Probabilistic Hazard Assessment Methodology to Support Local Adaptation Planning in Lake Macquarie David Wainwright , <i>Salients Pty Ltd</i>	Getting Your Message Across: Assisting Councillors to Better Understand and Act on Their Legal Responsibilities for Coastal Management Ballanda Sack , <i>Beatty Legal</i>	
5 min	Changeover	Changeover	Changeover	
4.00pm – 4.20pm	Creative Coastal Solutions Dan Messiter & Natalie Patterson , <i>Royal HaskoningDHV</i>	Integrating Probabilistic Coastal Processes, Management Option and Economic Assessments Matthew Barnes , <i>BMT Eastern Australia & Martijn Gough</i> , <i>Aither</i>	Waves of Funding Leah Andrews , <i>Office of Environment and Heritage</i>	
5 min	Changeover	Changeover	Changeover	
4.25pm – 4.45pm	Rock Armoured Breakwaters: 3D Data Capture to Quantify Repairs and Influence Repair Design Edward Rowe , <i>Arup</i>	Planning of Major Recreational Boating Facilities at Shell Cove Boat Harbour Ben Morgan , <i>Advisian</i>	How to Play the Numbers Game: Risk = Hazard + Outrage when Planning for Climate Change Adaptation Neale Farmer , <i>Lake Macquarie City Council</i>	
5 min	Changeover	Changeover	Changeover	
4.50pm – 5.10pm	4.50pm – 5.00pm Tsunamigenic Potential of Submarine Landslides on the NSW Coast Hannah Power , <i>University of Newcastle</i> 5.00pm – 5.10pm The Wild Edge; Documenting New South Wales' Ocean Pools Nicole Larkin , <i>NLarkin Design</i>	4.50pm – 5.00pm The 80 Year Battle with Nature: A Short History of Coastal Management at Ettalong and Umina Warren Brown , <i>Central Coast Council</i> 5.00pm – 5.10pm MIDO – Coordinating Maritime Infrastructure Delivery and Investment in NSW Andrew Mogg , <i>Roads and Maritime Services</i>	Unravelling Some of the Complexities of Coastal Crown Land Management in NSW Catherine Knight , <i>Department of Industry Crown Lands</i>	

5.10pm **Close of Day One**

5.15pm **Australian Coastal Society AGM**
Sapphire Room 2

7.00pm **Welcome Reception**
Sponsored by “Department of Industry – Crown Lands”
“Barefoot Bowls”, Rockpool Garden, Club Sapphire

PROGRAM – DAY 2**Thursday 8 November**

8.30am **Registration (for 1 Day delegates)**
Auditorium, Club Sapphire Merimbula

Session 5: Plenary

9.00am – 10.30am
Location: Sapphire Room

9.00am **Welcome to Day 2**

9.05am – 9.55am “Environment-Schmironment: Climate Change as a **Finance** and **Liability** Risk for State & Local Governments”
Sarah Barker, Special Counsel, *MinterEllison*

9.55am **NSW Coastal Council: Q&A on preparing a Coastal Management Program**

10.30am – 11.00am **Morning Tea**

Session 6: Concurrent

11.00am – 1.00pm

	6A: New Science and Innovation	6B: SHOTS	6C: Productive Coasts
Location:	Sapphire Room 1	Sapphire Room 2	Tasman Room
Chair:	Kim Bowra	Michelle Fletcher	Peter Freewater
11.00am – 11.20am	A New Probabilistic Tsunami Hazard Assessment for Australia Gareth Davies , <i>Geoscience Australia</i>	Seawall Impacts on Beaches – Facts and Alternative Facts James Carley , <i>Water Research Laboratory</i>	Star of the South - Australia's First Offshore Windfarm Miriam Knollys , <i>Royal HaskoningDHV</i>
5 min	Changeover	Changeover	Changeover
11.25am – 11.45am	Building a Rock Solid Understanding - The Importance of Geotechnical Information in Coastal Hazard Definition and Risk Mapping Marc Daley , <i>Office of Environment & Heritage</i>	'Why' We Bother With Coastal Protection (SHOTS) Andrew Staniland , <i>MidCoast Council</i>	Oysters – Cultivating the Romance of Sustainability and Productive Partnerships Within Coastal Communities Jillian Keating , <i>Sapphire Coast Wilderness Oysters</i>
5 min	Changeover	Changeover	Changeover
11.50am – 12.10pm	Operational Forecasting of Coastal Sea Level Diana Greenslade , <i>Bureau of Meteorology</i>	Steps to Improve Gender Diversity in Coastal Geoscience and Engineering Shari Gallop , <i>Macquarie University</i> & Hannah Power , <i>University of Newcastle</i>	Responding to Coastal Vulnerability in the Cocos (Keeling) Islands Evan Watterson , <i>Royal HaskoningDHV</i>
5 min	Changeover	Changeover	Changeover

	6A Continued	6B Continued	6C Continued
12.15pm – 12.35pm	Cost-benefit Analysis for Coastal Management Decisions – A Case Study and Lessons Learned from Campbells Beach, Coffs Harbour Peter Horton, Horton Coastal Engineering		Improving Connectivity between Coastal Economies and Capital Cities Fariba Ramezani, University of Wollongong
5 min	Changeover	Changeover	Changeover
12.40pm – 1.00pm	12.40pm – 12.50pm Plenty of Polychaetes and Crustaceans in Coastal Waters – Does Offshore Aquaculture Make a Difference? Margaret Platell, University of Newcastle 12.50pm – 1.00pm A Strategy to Assess Coastal Dune Condition for Targeted Management Dilys Zhang, Cardno	12.40pm – 12.50pm Shifting Sands in Byron Bay: Knowledge and Gaps for a Sustainable Future Marcello Sano, Office of Environment & Heritage 12.50pm – 1.00pm Influence of Bay Shape on Tsunami Inundation for New South Wales (NSW) Estuaries Kaya Wilson, University of Newcastle	12.40pm – 12.50pm A Framework to Assess Tourist Community Sustainability Anna Lewis, University of Wollongong 12.50pm – 1.00pm Laying the Foundations for a Southern NSW Blue Economy Kerrylee Rogers, University of Wollongong

1.00pm – 1.45pm Lunch

1.15pm FT1: Twofold Bay will depart - *lunch and afternoon tea included on the Field Trip*

Session 7: FIELD TRIPS 1.45pm – 5.00pm
Sponsored by Local Land Services

FT1	Twofold Bay - Case study of contemporary coastal management issue (departs at 1.15pm)
FT2	Pambula Lake - The long history of Oyster consumption and production in Pambula Lake
FT3	Tathra - Coastal Hazards
FT4	Coastal Culture - Haycock Point

Afternoon Tea included on the Field Trips

5.00pm **Close of Day Two**

7.00pm **Conference Dinner & Annual NSW Coastal Management Awards**
Sponsored by "Royal HaskoningDHV"
Oaklands Event Centre

PROGRAM – DAY 3

Friday 9 November

8.30am

Registration (for 1 Day delegates)
Auditorium, Club Sapphire Merimbula

Session 8:

Concurrent

9.00am – 11.00am

	8A: New Science & Innovation	8B: Coastal Development and Engineering	8C: Productive Coasts
Location:	Sapphire Room 1	Sapphire Room 2	Tasman Room
Chair:	Michael Kinsela	John Hudson	Sarah Joyce
9.00am – 9.20am	<p>9.00am – 9.10am Geomorphic Planform and Headland Impacts on Embayed Beach Response Along the Sydney Coastline Thomas Fellowes, <i>Macquarie University</i></p> <p>9.10am – 9.20am Satellite Remote Sensing to Extract Long-term Time Series of Shoreline Change Kilian Vos, <i>UNSW Water Research Laboratory</i></p>	<p>9.00am – 9.10am Tweed Sand Bypassing: Improving Sand Trapping and Transfer Capacity Through Best Practice Engineering and Technology Adrian Barwick, <i>NSW Department of Industry</i></p> <p>9.10am – 9.20am Tweed Sand Bypassing: Decision Aid Tool and Integrated Sand Delivery Management Plan Matthew Harry, <i>NSW Department of Industry</i></p>	<p>9.00am – 9.10am Utilisation of a Recovering Wetland by a Commercially Important Species of Penaeid Shrimp Troy Gaston, <i>University of Newcastle</i></p> <p>9.10am – 9.20am Stable Isotopes Indicate Significant Saltmarsh Provisioning for Two Commercially Important Penaeid Species in a Temperate NSW Estuary Daniel Hewitt, <i>University of Newcastle</i></p>
5 min	Changeover	Changeover	Changeover
9.25am – 9.45am	<p>The Effects of Storm Clustering on Storm Demand and Dune Recession at Old Bar, NSW Tom Baldock, <i>University of Queensland</i></p>	<p>Case Studies in Repair Strategies for Training Walls and Breakwaters on the NSW Coastline-Post June 2016 Storm Indra Jayewardene, <i>Manly Hydraulics Laboratory</i></p>	<p>After the Spill: Florida's State Expenditure Plan for Coastal Ecosystems Protection and Restoration Richard Hardy, <i>Balmoral Group Australia</i></p>
5 min	Changeover	Changeover	Changeover
9.50am – 10.10am	<p>'Big Bite, Little Bite: Fast Recovery, Slow Recovery': Storm Impacts at Bengello Beach, Moruya, 1998 to 2018. Roger McLean, <i>University of New South Wales</i></p>	<p>Tramway Shared Path and Seawall Luke Dean, <i>Wollongong City Council</i></p>	<p>Development of the Proposed Merimbula Offshore Artificial Reef Ed Couriel, <i>Manly Hydraulics Laboratory</i></p>
5 min	Changeover	Changeover	Changeover
10.15am – 10.35am	<p>Monitoring Coastal Change from Space Heiko Loehr, <i>Royal HaskoningDHV</i></p>	<p>Using Water Quality Data to Influence Management Decisions Within the Hornsby Shire David Cummings, <i>Hornsby Shire Council</i></p>	<p>Redefining the Past - The Impact of Digitising Historic Data on Our Understanding Habitat Change over Time. Greg West, <i>NSW Department of Primary Industries</i></p>

	8A Continued	8B Continued	8C Continued
5 min	Changeover	Changeover	Changeover
10.40am – 11.00am	Bridging the Gap in a State-wide Coastal Dataset Benoit Cajelot , <i>Fugro Australia Marine</i>	The Elephant in the Room: Property Rights, Discourses, and Institutions Tayanah O'Donnell , <i>Australian National University</i>	Broulee: An Island No More? Ian Coghlan , <i>UNSW Water Research Laboratory</i>

11.00am – 11.30am Morning Tea

Session 9: Plenary

11.30am – 1.00pm

11.35am – 12.20pm “Global Warming and Recurrent Mass-Bleaching of Corals Corals are feeling it hot”

Dr Maria Byrne, Professor Marine and Developmental Biology
The University of Sydney

12.20pm – 12.50pm NSW Coastal Council: Feedback on preparing a Coastal Management Program

12.50pm – 1.00pm Announcement for 2019 NSW Coastal Conference Host Council; Conference Closing & Wrap Up

1.00pm – 2.00pm Lunch