



CONFERENCE PROGRAM

(subject to change)

Tuesday 29th October 2019

1.00pm – 5.00pm Afternoon Pre-Conference “Connecting with Community for the benefit of the Coast and Catchment”

5.00pm – 6.00pm Optional Welcome Drink, *Crowne Plaza*

PROGRAM – DAY 1

Wednesday 30th October

8.00am Conference Registration, *Hawkesbury Lobby, Crowne Plaza*

Session 1: Plenary 9.00am – 10.30am
Location: Henry Kendall Ballroom

9.00am Welcome to Country

9.15am Conference Welcome from Central Coast Council

9.30am Conference Opening

9.40am Address by Major Sponsor

9.45am “Paying Attention to the 3C Effect: Climate, Coasts and Community”
Dr Melissa Nursey-Bray, *University of Adelaide*

10.30am – 11.00am Morning Tea

Session 2: Concurrent 11.00am – 12.35pm

	2A: Governance & Community	2B: Coastal & Estuarine Science	2C: Engineering, Technology & Innovation
Location:	Henry Kendall Ballroom	Wamberal	Avoca / Terrigal
11.00am – 11.20am	Perception vs. Reality – 10 Years of Implementation of the Tuggerah Lakes Estuary Management Plan Vanessa McCann , <i>Central Coast Council</i>	Managing Ramsar Wetlands in Urban Estuaries – Challenges, Opportunities and Responses Sophia Meehan , <i>Landforms and Rehabilitation</i>	Ups and Downs of Coastal Zone Management – Applying Remote Sensing Technologies Symon Walpole , <i>Lake Macquarie City Council</i>
5 min	Changeover	Changeover	Changeover

	<i>2A continued</i>	<i>2B continued</i>	<i>2C continued</i>
11.25am – 11.45am	Scoping a Scoping Study: a New Approach to Collaboration Across the Hawkesbury River Estuary? Ana Rubio, Hornsby Shire Council	Adapting the MER Framework for Assessment and Communication of River, Lake and Estuary Health on the NSW Central Coast Adrian Dickson, Department of Planning, Industry and Environment	Umina-Ocean Beach Erosion Management Strategy Gary Blumberg, Royal HaskoningDHV
5 min	Changeover	Changeover	Changeover
11.50am – 12.10pm	Developing a Coastal Management Program for Sydney Harbour – It Takes a Village Sarah Joyce, Sydney Coastal Councils Group	Monitoring NSW Estuarine Health, Towards a More Holistic Approach Colin Johnson, Department of Planning, Industry and Environment	Recent Advances in Remote Sensing Applied to the Ettalong Ebb-tide Delta and Ocean-Umina Beach. Chris Drummond, UNSW Sydney
5 min	Changeover	Changeover	Changeover
12.15pm – 12.35pm	First-Pass Risk Assessment: What Does This Really Mean, and How Can It Be Used to Scope a Coastal Management Program? Verity Rollason, BMT	Climate Change in Estuaries: Moving Beyond the High Tide William Glamore, Water Research Laboratory, UNSW	Foreshore Rehabilitation: What's Best for the Ecology? A Case Study of Pelican Beach, Lake Macquarie Vincent Raoult, The University of Newcastle

12.35pm – 1.30pm Lunch

Session 3: Concurrent

1.30pm – 3.05pm

	3A: Implementing the Marine Estate Management Strategy (2018-2028) <i>Sponsored by Marine Estate Management Authority</i>	3B: Governance & Community	3C: Coastal & Estuarine Science
Location:	Henry Kendall Ballroom	Wamberal	Avoca / Terrigal
1.30pm – 1.50pm	1.30pm – 1.45pm The NSW Marine Estate Management Strategy – Connecting the Coast, Catchment and Community Nicola Johnstone, Department of Primary Industries	1.30pm – 1.40pm Activate, Educate, and Celebrate. Exploring an Innovative Event Model to Connect Coast, Community and Catchment Glenn Cannard, Central Coast Council	1.30pm – 1.40pm Restoring the Threatened Seagrass Posidonia Australis in Old Boat Mooring Scars Giulia Ferretto, University of NSW
	1.45pm – 1.55pm Building Capacity to Implement the 'Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land Use Planning Decisions' Jocelyn Dela-Cruz, Department of Planning, Industry and Environment	1.40pm – 1.50pm Communities of Practice - The New Buzzword Simon Rowe, OceanWatch Australia	1.40pm – 1.50pm Sedimentation Trends in Coastal Wetland Vegetation over the Past Century Kirti Lal, University of Wollongong

5 min	1.55pm – 2.05pm Updating the NSW Water Quality and River Flow Objectives – Stage1: Establishing Foundational Mapping Layers Saori Miyake , <i>Department of Planning, Industry and Environment</i>	Changeover	Changeover
1.55pm – 2.15pm	2.05pm – 2.15pm The Marine Estate Coastal Floodplain Prioritisation Study Kylie Russell , <i>Department of Primary Industries Fisheries</i>	Take 3 – Connecting Coasts, Catchment and the Community! Roberta Dixon-Valk & Amanda Marechal , <i>Take 3 Ltd</i>	Habitat-fishery Linkages in Lake Illawarra: Habitat Prioritisation for Management Actions Troy Gaston , <i>The University of Newcastle</i>
5 min	Changeover	Changeover	Changeover
2.20pm – 2.40pm	2.20pm – 2.30pm Development of a Policy for Coastal Crown Land Catherine Knight , <i>Department of Industry Crown Lands</i>	What's Important? Exploring the Gap Between Community Values and Management Priorities. Jacquie White , <i>Association of Bayside Municipalities</i>	Pelican Bay Subcatchment Program - How a Small Bay Highlights Some Big Issues in Coastal Management Brian Hughes , <i>Hunter Local Land Services</i>
5 min	2.30pm – 2.40pm Mitigation of Diffuse Pollutants Via Management of Riparian Zones Riverbanks and Roads Shaun Morris , <i>North Coast Local Land Services</i>	Changeover	Changeover
2.45pm – 3.05pm	2.40pm – 2.50pm Best Management Practice in Intensive Coastal Agriculture The Clean Coastal Catchments Project Luke Jewell , <i>Department of Primary Industries</i>	Journey with the Community - Presenting Challenging Technical Information Peter Brennan , <i>Lake Macquarie</i>	Getting the Best out of Your ICOLL Ester Groenendaal , <i>Cardno</i>
	2.50pm – 3.00pm Marine Integrated Monitoring Program: A Triple Bottom Line Approach Natalie Gollan , <i>Department of Primary Industries</i>		

3.05pm – 3.35pm Afternoon Tea

Session 4:		Concurrent		3.35pm – 5.10pm	
	4A: Governance & Community	4B: Coastal & Estuarine Science	4C: Engineering, Technology & Innovation		
Location:	Henry Kendall Ballroom	Wamberal	Avoca / Terrigal		
3.35pm – 3.55pm	Section 27, the Enigma Section of the 2016 Coastal Management Act Angus Gordon , <i>Coastal Zone management and Planning</i>	Do Oyster Farms Benefit Estuarine Fisheries? Timothy Smith , <i>The University of Newcastle</i>	An Underwater View of Past and Present Coastal Evolution from Seal Rocks to Crowdy Head Michael Kinsela , <i>Department of Planning, Industry and Environment</i>		
5 min	Changeover	Changeover	Changeover		
4.00pm – 4.20pm	Adaptive Conditions of Consent for Reasonable Coastal Zone Development Proposals Geoff Withycombe , <i>BMT</i>	Oyster Biomonitor of Estrogenic Endocrine Disrupting Chemicals in Australian Coastal Waterways Rafiqueel Islam , <i>The University of Newcastle</i>	Extreme Storms Recorded in the Morphostratigraphy of Bengello Beach (Moruya), SE Australia Thomas Oliver , <i>UNSW Canberra</i>		
5 min	Changeover	Changeover	Changeover		
4.25pm – 4.45pm	Integrated Coastal Management: The 5,000 Piece Puzzle Natasha Carpenter , <i>Auckland Council</i>	Experimental Saltmarsh Restoration in the Hunter River: Vegetation Findings Two Years on Caleb Rankin , <i>The University of Newcastle</i>	Collaborative Research to Understand Sea Level Rise Around South Korea Using Cutting-edge Techniques Phil Watson , <i>Department of Planning, Industry and Environment</i>		
5 min	Changeover	Changeover	Changeover		
4.50pm – 5.10pm	Cost Benefit Analysis in NSW Coastal Management – Are We Getting It Right? Peter Horton , <i>Horton Coastal Engineering</i>	4.50pm – 5.00pm New Arrangements for Catchment Governance Are Key to Estuary Health. A Case Study in Northern NSW Steve Skull , <i>Alluvium Consulting Australia</i> 5.00pm – 5.10pm Revealing the Climate Story Hidden in Mangroves in NSW Coastal Wetlands Matthew Goodwin , <i>University of Newcastle</i>	4.50pm – 5.00pm Scraping It All Together at Old Bar Beach, NSW Tom Doyle , <i>MidCoast Council</i> 5.00pm – 5.10pm Avoca Beach Southern Foreshore Redevelopment – Bleachers, Boulders and Boat Ramps Patrick Lawless , <i>Royal HaskoningDHV</i>		

5.10pm

Close of Day One

7.00pm

Welcome Reception, *Avoca Beach Surf Life Saving Club*
“Sponsored by Department of Planning, Industry and Environment - Crown Land”

PROGRAM – DAY 2

Thursday 31st October

8.30am Registration (for 1 Day delegates), Hawkesbury Lobby, Crowne Plaza

Session 5: Plenary 9.00am – 10.30am
Location: Henry Kendall Ballroom

9.00am Welcome to Day 2

9.05am – 9.50am Dr Richard Denniss, Chief Economist, The Australia Institute

9.50am 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: Engineering, Technology & Innovation	6B: Governance & Community	6C: Coastal & Estuarine Science
Location:	Henry Kendall Ballroom	Wamberal	Avoca / Terrigal
11.00am – 11.20am	Sand, Natures Defence – Woolli, a Suitable Case for Treatment Marc Daley , Department Planning, Industry and Environment	The Future of Coastal Protection Works on Public Land in NSW Timothy Allen & Ballanda Sack , Beatty Legal	Smart Estuaries: What's In Store for Future Estuary Managers? Peter Coad ,
5 min	Changeover	Changeover	Changeover
11.25am – 11.45am	Tweed River Entrance Dredging Employing a Flexible Placement Strategy Matthew Harry , NSW Department of Industry	Protecting Public Access Megan Hawley & Katie Mortimer , Lindsay Taylor Lawyers	Tidal Inundation in South East Australian Estuaries David Hanslow , Department of Planning, Industry and Environment
5 min	Changeover	Changeover	Changeover
11.50am – 12.10pm	Ocean Pools – Contemporary Coastal Engineering Techniques Applied to Old Assets James Carley , Water Research Laboratory, UNSW Sydney	11.50am – 12.00pm NSW Beach Valuation Tool Anita Kovac , Department of Planning, Industry and Environment 12.00pm – 12.10pm Coastal Management Programs and the Marine Estate Management Strategy Michelle Fletcher , Department Planning, Industry and Environment	Dune Behaviour and Management at Stockton Bight: Two Contrasting Case Study Examples Paul Donaldson & Ainslie Downes , BMT
5 min	Changeover	Changeover	Changeover
12.15pm – 12.35pm	Constructing a Temporary Coastal Protection Structure with Geofabric MEGAcontainers – Lessons Learnt Natalie Patterson , Royal HaskoningDHV	Going Beyond a Blue Economy: Imagining a Blue Future for Southern NSW Michelle Voyer & Anna Lewis , University of Wollongong	Flightpath : It's All About the Birds at Woollooware Bay Stage 6 Julie Nimmo , Sutherland Shire Council

	<i>6A continued</i>	<i>6B continued</i>	<i>6C continued</i>
5 min	Changeover	Changeover	Changeover
12.40pm – 1.00pm	Eco-engineering Climate Change Adaptation in Coastal Wetlands Duncan Rayner, UNSW Water Research Laboratory	Minnamurra River Boardwalk: Navigating Estuarine Constraints and Values to Deliver a Sustainable Shared Path Connection Cassy Baxter, Cardno	12.40pm – 12.50pm Tracking the Impacts of Sewage Overflows on Ecosystem Function Using Novel Techniques Alessandra Suzzi, The University of Newcastle 12.50pm – 1.00pm Urban Heating and Cooling Corridors; the Perfect Climate for Water Sensitive Urban Design Georgina Dawson, Department of Planning, Industry and Environment

1.00pm – 1.45pm Lunch

Session 7: FIELD TRIPS

1.30pm – 5.00pm

FT1	BRISBANE WATER BOAT TOUR – HIGHLIGHTING GOSFORD & WOY WOY PENINSULA 1.30pm Departure
FT2	WALK AND TALK TUGGERAH LAKES - HIGHLIGHTING TUGGERAH LAKES & THE ENTRANCE
FT3	TOUR TERRIGAL – WALKING TOUR AROUND TERRIGAL LAGOON
FT4	BUSH, BEACH AND BATEAU BAY - HIGHLIGHTING OUR COAST AND UNIQUE COASTAL ENVIRONMENT - WYRRABALONG NATIONAL PARK

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”
 Crowne Plaza Terrigal

PROGRAM – DAY 3

Friday 1 November

8.30am

Registration (for 1 Day delegates), Hawkesbury Lobby, Crowne Plaza

Session 8:

Concurrent

9.00am – 11.00am

	8A: Governance & Community	8B: Coastal & Estuarine Science	8C: Engineering, Technology & Innovation
Location:	Henry Kendall Ballroom	Wamberal	Avoca / Terrigal
9.00am – 9.20am	Man-Made Ecological Disaster from the Lakes to the Coast Kate Aston, Revive Lake Cathie Inc	Metal Accumulation in Coastal Saltmarsh Angelica Varhammar, The University of Newcastle	Acid Sulfate Soil Design Implications – Examples from the Shell Cove Boatharbour Project Deborah Lam, Advisian
5 min	Changeover	Changeover	Changeover
9.25am – 9.45am	9.25am – 9.35am Developing Swim-safety Modelling and Management Tools Using Historical Bacteria and Environmental Datasets Melanie James, Central Coast Council 9.35am – 9.45am The Success of Nearly a Decade of Collaboration Between OEH and LMCC Christopher Baiada, Department of Planning, Industry and Environment	Sediment Bioremediation Using Benthic Macrofauna: Knowledge Gaps and Application in Coastal Environments Sebastian Vadillo Gonzalez University of NSW	9.25am – 9.35am Estuary-wide Strategies to Streamline the Assessment of Domestic Foreshore Structures and Bank Management Works Hayley Leczkowski, NSW DPI Fisheries 9.35am – 9.45am Moving on from Rock: a More Natural Approach to Bank Stability Using Logs and Revegetation Jenny Weingott, Hunter Local Land Services
5 min	Changeover	Changeover	Changeover
9.50am – 10.10am	9.50am – 10.00am Pathways for Coastal Sustainability and Resilience for the Australian East Coast Marcello Sano, Griffith Centre for Coastal Management 10.00am – 10.10am Community Sentiment for Shark Mitigation Approaches Trialled in the NSW Shark Management Strategy Carol Martin, Department of Primary Industries	The Impact of Trapped Stormwater and Groundwater in the Nearshore Zone of Berkeley Vale, Tuggerah Lakes Rebecca Swanson, Department of Planning, Industry and Environment	Climate Change Adaptation Case Study: Davistown Landform and Flood Management Joel Fraleigh, Rhelm
5 min	Changeover	Changeover	Changeover

	<i>8A continued</i>	<i>8B continued</i>	<i>8C continued</i>
10.15am – 10.35am	<p>10.15am – 10.25am Creating a Movement: Understanding How Communities Can Inform Fair and Transformative Sea-level Rise Adaptation Anne Maree Kreller, <i>University of NSW</i></p> <p>10.25am – 10.35am Tidal Pools and White’s Seahorse – Balancing Community Needs in a Sensitive Marine Environment Jodie Crawford, <i>Northern Beaches Council</i></p>	<p>Monitoring Coastal Water Quality Using Molecular Microbiological Markers Nathan Williams, <i>UTS</i></p>	<p>Central Coast Lagoons Flood and Coastal Intelligence Tools – Integrating Coastal Information Bronson McPherson, <i>Manly Hydraulics Laboratory</i></p>
5 min	Changeover	Changeover	Changeover
10.40am – 11.00am	<p>10.40am – 10.50am The Distribution and Abundance of Marine Debris Across Australia Jordan Gacutan, <i>University of NSW</i></p> <p>10.50am – 11.00am Fishing the Past: Archaeological Fish Remains Reveal Connections Between Humans and Environment Morgan Disspain, <i>Niche Environment and Heritage</i></p>	<p>10.40am – 10.50am Tsunami Propagation in Drowned River Valley Estuaries with a Dynamic Tide Kaya Wilson, <i>The University of Newcastle</i></p> <p>10.50am – 11.00am Rainfall Drives Nitrogen Transport and Reduced Attenuation in a Coastal Horticultural Catchment Shane White, <i>Southern Cross University</i></p>	<p>10.40am – 10.50am Providing a Baseline for Future Change Along Australia’s Coastline Mick Hawkins,</p> <p>10.50am – 11.00am Use of Emerging Technologies for Monitoring of Water Quality and Ecosystem Health Bill Leggat, <i>The University of Newcastle</i></p>

11.00am – 11.30am Morning Tea

Session 9: Plenary

11.30am – 1.00pm

Location: Henry Kendall Ballroom

11.30am – 12.15pm “Eyewitness Accounts of Rising Sea Level around Australia More Than 7000 Years Ago”, **Professor Patrick Nunn**, *University of the Sunshine Coast*

12.15pm – 12.50pm “Youth for the Environment”, **Keynote Address**

12.50pm – 1.00pm **Announcement for 2020 NSW Coastal Conference Host Council; Conference Closing & Wrap Up**

1.00pm – 2.00pm Lunch