



Conference Program

Tuesday 15 August 2023

5.30pm –

Welcome Reception

7.30pm

Trade Exhibition Area, The Wandiny Room, Novotel Sunshine Coast



Wednesday 16 August 2023

Conference Registration

8.00am

Arrivals Lounge, Novotel Sunshine Coast

Session 1 – Opening Plenary

8.45am –
10.05am

Location: Minyama 1 & 2

Conference Chair: Andrew Pomeroy

8.45am **Welcome to Day 1**

8.55am **Welcome to Country**

9.05am **Conference Welcome**

Dr Andrew Pomeroy, *Conference Chair & National Committee on Coastal and Ocean Engineering*

9.15am **Conference Welcome**

Luke Campbell, *Chair, PIANC Australia & New Zealand*

9.20am – **Keynote Address**

10.00am **Leveraging Engineering With Nature® to Support Coast and Port Resilience**

Dr Burton Suedel, *US Army Engineer Research and Development Center*

Session 2 10.10am – 10.50am	2A: Infragravity Waves	2B: Beach Nourishment	2C: Port Biodiversity	2D: Hydrogen Ports
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4
Chair:	John Ryan	Kristen Splinter	Toby Devlin	Scott Keane
10.10am – 10.30am	Characterising Continental Shelf Waves and Their Drivers for the NSW coast, Australia Cristina Viola <i>NSW Department of Planning and Environment</i>	Building Beaches - The Te Rauone Beach Management Scheme Andy Pullar <i>Port Otago</i>	Lyttelton Port Company's approach to achieving biodiversity positive Kirsty Brennan <i>Lyttelton Port Company</i>	Hydrogen shipping general considerations Peter Cummings <i>KBR</i>
10.30am – 10.50am	Characteristics of Infragravity Waves in Western Australian Coast Darshani Thotagamuwage <i>Department of Transport Western Australia</i>	Nearshore Nourishment Theory and Application Angus Jackson <i>International Coastal Management</i>	Methods to investigate Invasive Marine Species vectors in ports under climate change Sander Scheffers <i>Hydrobiology</i>	Port Infrastructure Planning and Design for Green Hydrogen and its Derivatives Harry Sunarko <i>Fortescue Energy</i>
10.50am – 11.20am	Morning Tea			

Session 3 11.20am – 12.40pm	3A: Coastal Modelling	3B: Data Collection	3C: Coastal Management	3D: Dredging
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4
Chair:	Stuart Bettington	Grant Millar	Pam Wong	Paul Guard
11.20am – 11.40am	Developing a multi-model workflow for assessing beach dynamics Eddie Beetham <i>Tonkin + Taylor</i>	Novel Coastal Erosion Indicators for Victoria, Australia, Incorporating Drone and Satellite Data Jak Mccarroll <i>Department of Energy, Environment and Climate Action</i>	Planning cycles for infrastructure sited in coastal hazard areas; Katikati WWTP, NZ Michael Allis <i>Beca</i>	Navigating the environmental approval process for rainbowing sand onto Port Beach Kreshan Heera <i>BMT</i>
11.40am – 12.00pm	Storm Tide in Moreton Bay – Investigation of Wave Surge Interactions Mitchell Smith <i>TUFLOW</i>	Utilising object detection from coastal surf cameras to assess surfer usage Tom Murray <i>Griffith University</i>	Coastal Management in the Coral Island Setting Shaw Mead <i>eCoast Marine Consulting and Research</i>	Improvements to dredge material management for the Port of Melbourne Michael Miloshis <i>Water Technology</i>
12.00pm – 12.20pm	Quality Metocean Data - Methods to Improve Real-Time Outcomes Salil Kulkarni <i>OMC International</i>	Use of UAVs to Collect Cost and Time Efficient Regional Coastal Datasets Rhian Wardley <i>Baird</i>	Engaging to Adapt: The Amberley Beach Journey Kate Macdonald <i>Jacobs New Zealand Ltd</i>	Long Term Trends in Newcastle Harbour Tidal Range Ian Taggart
12.20pm – 12.40pm	Improving Operational Swell Forecasting for New South Wales Ports Burak Uslu <i>OMC International</i>	Utilising underwater and aerial drones for structure damage assessment and repair audits Matthew Phillips <i>Manly Hydraulics Laboratory</i>	Mechanisms of Headland Bypassing During Modal and Storm Wave Conditions Daniel Wishaw <i>BMT Global</i>	Reclamation and Ground Improvement Strategies at the Port of Brisbane Clinton Chan <i>Port of Brisbane</i>
12.40pm – 1.40pm	Lunch & nextGEN Poster Session			 
	Lunch Sponsor			nextGEN Sponsor
Session 4 1.40pm – 3.20pm	4A: Breakwater & Revetment	4B: Dredging	4C: Tsunami & Long Waves	4D: Port Case Studies
Location:	Minyama 1	Minyama 2 <i>Sponsored by:</i> Advisian Worley Group	Minyama 3	Minyama 4
Chair:	Ian Coghlan	Ben Morgan	Tom Baldock	Jenny Loveday
1.40pm – 2.00pm	Applying Ockham's razor to Breakwater and Revetment Design Angus Gordon <i>Coastal Zone Management and Planning</i>	Morphology and Harbour Siltation at Cape Ferguson Stuart Bettington <i>Royal HaskoningDHV</i>	From offshore to onshore probabilistic tsunami hazard assessment: Approximating the “all-scenarios” solution Gareth Davies <i>Geoscience Australia</i>	Innovative design approaches on a major transport infrastructure project at the coast Mark Foster <i>Tonkin + Taylor & Tom Shand, University of Auckland & Tonkin + Taylor</i>
2.00pm – 2.20pm	Recent Developments in the Design of Conventional Rubble Mound Structures Amir Etemad Shahidi <i>Griffith University</i>	Monitoring of water quality and sensitive habitats during dredge events Felicity Melville <i>Vision Environment ANZ</i>	Tsunami Inundation Modelling for City of Gold Coast, Australia Neda Mardani <i>Queensland Government Hydraulics Laboratory</i>	Seaview Wharf Renewals Liam Hall <i>Holmes</i>

2.20pm – 2.40pm	Pattern placement for rock armour: theory and practices, parametric design and examples Gildas Colleter <i>Water Technology</i>	Baseline Monitoring for Dredging Planning and Management – Data Review and Analysis Doug Shooter <i>KBR</i>	Performance of elevated structures under tsunami bore impact Reza Shafiei <i>Beca</i>	Wharf Design in Remote and Seismically Active Regions Michael Kelleher <i>Shoreline Civil and Marine Consulting</i>
2.40pm – 3.00pm	Field trial for low carbon, high-density coastal armour units Ben Modra <i>Water Research Laboratory - UNSW</i>	Risk Assessing dredging activities Ross Jones <i>Australian Institute of Marine Science</i>	Assessing the Tsunamigenic Potential of a Submarine Landslide Offshore Brooms Head, Australia Elise Buller <i>The University of Newcastle</i>	Planning for the next century of trade growth in Western Australia Patrick Seares <i>Westport</i>
3.00pm – 3.20pm	Full Scale Testing of Rock Bag Filter Units Gabriel Tooker <i>AMC Search</i>	The Importance of Flocculation in Dredging Gordon Dwane <i>Gladstone Ports Corporation</i>	Dual phase tsunami modified by shelf resonance on the east coast of Australia Daryl Metters <i>Queensland Government Hydraulics Laboratory</i>	Case Study: Design & Construction of HMAS Coonawarra New Wharf Katrina Dodd <i>McConnell Dowell</i>
3.20pm – 3.50pm	Afternoon Tea			
Session 5 3.50pm – 5.10pm	5A: Coastal Modelling Systems	5B: Overtopping	5C: Coastal Processes	5D: Asset Management
Location:	Minyama 1	Minyama 2 <i>Sponsored by:</i> 	Minyama 3	Minyama 4
Chair:	Christopher Adamantidis	Sin Nyap Tan	Sam Watkin	Andy Boulton
3.50pm – 4.10pm	Towards Improved Operational Wave Modelling at the Bureau of Meteorology Stefan Zieger & Leo Peach <i>Australian Bureau of Meteorology</i>	Waves and shared pathways: a data driven approach to site-specific overtopping analysis Michael Paine <i>Tonkin + Taylor</i>	Mollymook Beach: A South Coast Case Study in Beach Rotation Christopher Beadle <i>Water Technology</i>	Enhancing the Structural Integrity Risk Assessment of Port and Maritime Assets Sam Mazaheri <i>Beta International Associates</i>
4.10pm – 4.30pm	Climate Services Transformed: Decision-Making Practice for the Coast in a Changing Climate Rob Bell <i>Bell Adapt</i>	St Kilda Pier Redevelopment – Wave overtopping and public safety Tom Atkins <i>AW Maritime</i>	Seasonality and climate controls of shoreline position and water levels in Australia Katie Wilson <i>Water Research Laboratory, University of New South Wales</i>	Ports Australia's Wharf Structures Condition Assessment Manual Carsten Varming <i>NSW Ports</i>
4.30pm – 4.50pm	Managing Impacts of Tropical Cyclone Storm Surge with a Decision Support Framework Joanna Aldridge <i>QB</i>	Wave overtopping of coastal infrastructure: field measurement techniques and triggers for adaptation Peter Quilter <i>Tonkin + Taylor</i>	Hydrodynamic modelling on Heron Island to predict coral breakage and rubble motion Tom Baldock <i>University of Queensland</i>	Aging Marine Assets in remote Torres Strait Communities, Social and Engineering Responses David Baldwin & Adeah Kabai <i>Torres Strait Island Regional Council</i>
4.50pm – 5.10pm	A modelling pathway toward improving estuarine management in a changing climate Danial Khojasteh <i>UNSW Water Research Laboratory</i>	Vegetation for Coastal Wave Overtopping Mitigation: A Laboratory and Numerical Investigation Holly Blakely <i>Tonkin + Taylor & University of Auckland</i>	Bribie Island Breakthrough – A Dynamic Coastal System Sel Sultmann, Dept of Environment & Sciences & Peter Wood, Maritime Safety Queensland	Torres Strait Condition Assessment - Application of Inspection Manuals Rick Plain <i>Royal HaskoningDHV</i>

5.10pm **Close of Day One**

5.30pm – Women in Coastal Geoscience and Engineering Function

7.30pm *Minyama Room, Novotel Sunshine Coast*



7.45pm – Young Professional Networking Function

9.45pm *Lily's on the Lagoon, Novotel Sunshine Coast*



Thursday 17 August 2023

Conference Registration

8.00am

Arrivals Lounge, Novotel Sunshine Coast

Session 6 – Plenary Location: Minyama 1 & 2

8.45am **Welcome to Day Two**

8.57am **Department of Transport and Main Roads - (Maritime Safety Queensland / Policy, Planning and Investment) Sponsor Address**

Kell Dillon, Maritime Safety Queensland Branch

9.00am **Hall Platinum Sponsor Address**

Cameron Hall, HALL



9.05am – **Keynote Address**

9.45am In conversation with Jamie Simmonds on moving towns

Session 7 9.55am – 10.35am	7A: Coastal Case Studies	7B: Coastal Processes	7C: Water Quality Modelling	7D: Port Planning
Location:	Minyama 1	Minyama 2 <i>Sponsored by:</i> 	Minyama 3	Minyama 4
Chair:	Georgia Keeshan	Daniel Rodger	Michael Miloshis	Sam Noelker
9.55am – 10.15am	Woody Point - Foreshore Coastal Protection Upgrade Project Sam Knight SMEC	Sedimentary features and sediment transport pathways on the southeast Australian shoreface-inner continental shelf Mike Kinsela University of Newcastle	Forecasting water quality at the design phase of a landmark marina development Ryan Alexander RPS	Port Development Unlocking the Australian OSW Industry: Unique Challenges, Opportunities & Criticality Oliver Davey Arup
10.15am – 10.35am	Terrigal Boardwalk: connecting communities and bringing them closer to nature David Dack Arup	HF radar observations of oceanic mixing of outflow from the Rhine River Mal Heron James Cook University	An online application supporting assessments of bacterial contamination in Brisbane River Estuary Méven Huiban DHI Water & Environment	Decarbonizing California's Ports: Challenges and Opportunities Michael Vanderbeek GHD

10.35am – 11.00am Morning Tea

Session 8 11.00am – 12.20pm	8A: Wave Modelling	8B: Nature Based Solutions	8C: Coastal Modelling	8D: Port - Case Studies
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4
Chair:	Astrid Stuer	Andrew Pomeroy	Paul Prenzler	Greg Britton
11.00am – 11.20am	Extreme coastal waves due to East Coast Lows in a warming climate Aditya Deshmukh UNSW Sydney	Creating mangrove habitat on a living seawall on the Great Barrier Reef Rory Mulloy Central Queensland University	A Coastal Erosion Risk Assessment Framework Fernando Alvarez Gold Coast City Council	Port of Mackay Wharf 5 Western Approach Reconstruction Harvinder Singh , Jacobs & Anoop Pillai , North Queensland Bulk Ports
11.20am – 11.40am	Nearshore wave power in tropical, barrier-reef sheltered regions informed by deep-water observations Dylan Cowley	Design, approval and construction of a fish friendly seawall in SE Queensland Daniel Rodger JBP Scientists & Engineers	Modelling Wave-Current Interaction along the Central East Coast of Australia Gaelle Faivre Griffith University	Hay Point Shiploader & Berth Replacement: a project and innovation case study Scott Collins Aurecon

	<i>The University of Queensland</i>			
11.40am – 12.00pm	Comparing Methodologies to Measure Seiche in Prototype and Model Harbours in NSW Indra Jayewardene <i>Manly Hydraulics Laboratory</i>	Nature Based Solutions and Oyster Shellfish Reef Restoration in the Noosa River Sam King <i>International Coastal Management</i>	A time-series data-driven model for wave-current interactions along the Southeast Queensland coast of Australia Mingyuan Ma <i>Griffith University</i>	Hay Point wharf caissons – A second life for an engineering marvel Richard Woollard <i>Aurecon</i>
12.00pm – 12.20pm	Benefits of in-situ wave data for infragravity wave simulations Joao Mussi de Albuquerque	Shellfish Reef Restoration in South Australia: Considerations for Design and Development Approvals Jessica Ryan-Slinger <i>Jacobs</i>	Improvement of Port Philip Bay coupled hydrodynamic hindcast model Alexander Babanin <i>University of Melbourne</i>	Stability Assessment Considerations for Articulated Concrete Block Scour Mats Under Wave Attack Ian Coghlan <i>UNSW Water Research Laboratory</i>
12.20pm – 1.20pm	Lunch & nextGEN Poster Session			 WATER TECHNOLOGY WATER, COASTAL & ENVIRONMENTAL CONSULTANTS nextGEN Sponsor

1.20pm – 3.00pm	9A: Coastal Structures	9B: Recreational Facilities	9C: Maritime Hydrodynamics	9D: Fenders & Mooring
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4 <i>Sponsored by</i> SHIBATAFENDERTEAM  on the safe side
Chair:	Verity Taylor	Ben Modra	Arne Nilsen	Thore Kollmorgen
1.20pm – 1.40pm	Applications of Geotextile Tube as Dyke Core Kok Hau Siew <i>TenCate Geosynthetics</i>	Modelling queues at a recreational boating facility Kevin Yu <i>FSC Range</i>	Influence of Water Depth on Roll of Large Vessels in Shallow Water Javad Mehr <i>University of Tasmania</i>	Recommendations for Fender Testing in PIANC WG 211 Mishra Kousik <i>Trelleborg Marine and Infrastructure</i>
1.40pm – 2.00pm	Are Temporary Coastal Protection Options Black and White? Natalie Patterson <i>Royal HaskoningDHV</i>	The Point Richards rock groyne for deflecting seagrass wrack Toby Devlin <i>Water Technology</i>	Improving coastal sustainability of Sunshine Coast beaches Cameron Hall <i>Hall Contracting</i>	Considerations for Rational Replacement or Upgrade of Fender Systems in Oil & Gas Docks Carlos Ospina <i>Simpson Gumpertz & Heger</i>
2.00pm – 2.20pm	Estimation of Wave Loads on Coastal Structures Using DualSPHysics: A Comparative Study Shahab Hosseini <i>GHD</i>	GFRP-reinforced concrete slab approach for a sustainable and maintenance-free boat-ramp structure Allan Manalo <i>University of Southern Queensland</i>	Port and vessel insights from IoT edge vessel motion measurement devices Gregory Hibbert <i>OMC International</i>	Loose Ends: Computational Modelling of Snapback Paths Jordan Butler <i>WGA</i>
2.20pm – 2.40pm	Emergency Coastal Protection Works and Lessons from Remote Island Construction Martin Mulcahy <i>International Coastal Management</i>	The Clump point experience: building a mini Harbour in the GBRMP Chris Voisey & Shaun Giddy <i>Maritime Safety Queensland</i>	Dynamic Mooring Analysis of 6-Buoy Spread-Moored Ships at Cape Cuvier Tim Gourlay <i>Perth Hydro</i>	Validating Snapback Risk on Ports Kate Hodgins <i>Holmes Solutions</i>
2.40pm – 3.00pm	Design of Tailored Seawall for Amenity, Constructability and Retrogressive Breach Failure Risk Peter Kastrop & Matthew Deane <i>Shoreline Civil and Marine Consulting</i>	Planning a replacement recreational Woodman Point “Ammo” Jetty Justin Fifield <i>Department of Transport</i>	The effect of hull form on berthed ship – passing ship interaction Shaun Denehy <i>Australian Maritime College</i>	Reducing the Risk of Crossed Mooring Lines Stephan Dickinson <i>Wallbridge Gilbert Aztec</i> & Michael Wu , WGA
3.00pm – 3.30pm Afternoon Tea				

3.30pm – 5.10pm	10A: Artificial Reefs	10B: Nature Based Solutions	10C: Coastal - Case Studies	10D: Port - Case Studies
Location:	Minyama 1 Sponsored by  International Coastal Management EST. 1991 GOLD, AUSTRALIA	Minyama 2	Minyama 3	Minyama 4
Chair:	Angus Jackson	James Carley	Indra Jayewardene	Katrina Dodd
3.30pm – 3.50pm	Narrowneck Artificial Reef Renewal Bobbie Corbett <i>International Coastal Management</i>	Dredging for Sustainable Infrastructure Boudewijn van de Veire <i>Jan De Nul Group</i>	Garden Island Causeway Cockburn Sound WA: assessing environmental performance at age 50 Peter Waterman <i>Environmental Management Services</i>	Swanson Dock West – Futureproofing Australia’s largest Container Port Tom Bishton <i>Beca</i>
3.50pm – 4.10pm	Engineering Artificial Reefs for Coastal Protection Justin Geldard <i>The University of Western Australia</i>	Ecological and environmental considerations for a civil project in New Zealand water Julien Huteau & Gabriela Koneski <i>Brian Perry Civil</i>	Tweed River Entrance Sand Bypassing Project 22 years of Operations Stephan Leppert <i>McConnell Dowell</i>	Proving up capacity of Brotherson Dock structures for larger container ships Arne Nilsen <i>AURECON</i>
4.10pm – 4.30pm	Palm Beach Shoreline Project: Post-Project Outcomes Measured Through Key Performance Indicators Zoe Elliott-Perkins <i>City of Gold Coast</i>	Advancing Sustainability Strategies for a world in transition Renee McGlashan <i>GHD Advisory</i>	Outfall Construction Using Inclined Drilling Ian Wallis <i>CEE</i>	Design and Construction Challenges of a New Jetty in Vanuatu Marco Necchi <i>Arup Australia</i>
4.30pm – 4.50pm	Morphological Response of Submerged Structures on a Highly Dynamic Wave Dominated Beach Darrell Strauss <i>Coastal And Marine Research Centre, Griffith University</i>	Greening the grey – incorporating ecological enhancement into the Te Ara Tupua pathway Jacqui Bell <i>SLR Consulting</i>	"XblocPlus® and earthquakes: multi-modal approach to infrastructure performance and repair Verity Taylor <i>Tonkin + Taylor</i>	Large-Scale Modular Wharf Design Considerations for the Port of Alaska Modernization Program Grant Stock <i>Jacobs</i>
4.50pm – 5.10pm	Controlling residual circulations in a wave pool to maximize surfing amenity Alireza Valizadeh <i>DHI Water and Environment</i>	Nature Based Method Coastal Hazard Adaptation Options: Site Selection in Westernport, Victoria Taylor Rubinstein <i>BMT</i>	The Kingston Pier Channel Construction Project, Norfolk Island – A ‘Working with Nature’ Approach Ben Morgan <i>Advisian</i>	Repurposing New Zealand’s Interislander rail ferry berth with innovative infrastructure Rhys Lewis <i>Arup</i>
5.10pm	Close of Day Two			
7.30pm – 11.30pm	Conference Dinner Minyama Room, Novotel Sunshine Coast Dinner Presenter: Dr Maddy McAllister Sponsored by Tonkin + Taylor		 Tonkin + Taylor	

Friday 18 August 2023

Conference Registration

8.30am

Arrivals Lounge, Novotel Sunshine Coast

Session 11 9.00am – 10.40am	11A: Sea Level in a Changing Climate	11B: Sediment Transport & Morphology	11C: Coastal Economics	11D: Port Planning
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4
Chair:	Javier Leon	Bobbie Corbett		Michael Coull
9.00am – 9.20am	Harmonic tidal analysis methods for Australia Julian O'Grady <i>CSIRO</i>	Dune at China Beach, Lewisham, 7173 – what's its fate? Noel Carroll <i>pitt&sherry</i>	Strategies And Practical Application of Coastal Hazards Management – No Silver Bullet Martijn Klabbers <i>Advisian (Worley)</i>	Domestic Port Site Selection in the South Pacific Kane Satterthwaite <i>Beca</i>
9.20am – 9.40am	Identifying and categorising errors in tide gauges Grant Millar <i>Department of Environment and Science</i>	Shoreline Response to the Southern Annular Mode at WEC site: Satellite Analysis James Thompson <i>Griffith University</i>	Improving cost benefit analysis for climate change in coastal and port management Ron Cox <i>Water Research Laboratory UNSW</i>	From Then to Now: Digital asset management on aging port infrastructure Gareth Robertshaw <i>Beca</i>
9.40am – 10.00am	Extreme sea levels under climate change: current knowledge, challenges, and approaches Hannah Power <i>University of Newcastle</i>	Change in bathymetry and tidal dynamics after the Bribie Island breakthrough John Ryan <i>Department of Environment and Science</i>	A practitioner's review of Coastal Hazard Risk Management and Adaptation Planning (CHRMAP) Karl Ilich <i>Water Technology</i>	Big Data for Ports, Pilots, Planners and Engineers Giles Lesser <i>OMC International</i>
10.00am – 10.20am	Utility of Probabilistic Inundation Hazard Assessments David Wainwright <i>Salients</i>	The Influence of Wave Spectral Shape on Dune Erosion Kristen Splinter <i>Water Research Laboratory, UNSW Sydney</i>	Opotiki Harbour Development – Innovation in Environmental Management Plans Reuben Hansen <i>Tonkin + Taylor</i>	Case Study: Design & Construction of Wharf 7 In Gisborne Hugh Robinson <i>Royal HaskoningDHV</i>
10.20am – 10.40am	Sea level rise and adaptation opportunities for West Vancouver Michael Coull <i>WSP</i>	Ōpōtiki Harbour Development-Construction Challenges at the end of a Sand Spit Scott Murray <i>Tonkin + Taylor</i>	Economic valuation of coastal Nature-based Solutions: a review and perspectives Rodrigo Zilleruelo Estanol <i>Central Queensland University</i>	Expert Witness Reflections - A review of what not to do Nathan Burmeister <i>FSC Range</i>
10.40am – 11.10am	Morning Tea			

Session 12 11.10am – 12.30pm	12A: Coastal Modelling	12B: Sediment Transport & Morphology	12C: Recreational Facilities	12D: Port & Maritime Engineering
Location:	Minyama 1	Minyama 2	Minyama 3	Minyama 4
Chair:	Gildas Colleter	Mitchell Smith	Chris Voisey	Tom Atkins
11.10am – 11.30am	Towards more efficient techniques for downscaling offshore wave forecasts Leo Peach <i>Bureau of Meteorology & Griffith University</i>	DEA Coastlines: Mapping Australia's dynamic coastline using three decades of satellite imagery Robbi Bishop-Taylor <i>Geoscience Australia</i>	Shire of Broome - Broome Town Beach Jetty Jason Kersten <i>AW Maritime</i>	Design of Fairways in Estuaries with Mobile Mega Bedforms Wim Van Der Molen <i>Baird Australia</i>
11.30am – 11.50am	A Probabilistic Growth Model for Entrance Berms at Wave-Dominated Estuaries Christopher Adamantidis <i>Advisian</i>	Monitoring coastal change along Noosa, Australia Javier Leon <i>The University of the Sunshine Coast</i>	Quantifying the Waves Generated by Vessels Operating in Sheltered Waterways Gregor Macfarlane <i>Australian Maritime College (UTAS)</i>	Replacement of Bulk Handling Machines on Existing Wharves Richard Morgan <i>Aspec Engineering</i>
11.50am – 12.10pm	One beach... many models! Combining models to predict multidecadal coastal erosion Mariana Cussioli <i>Metocean Solutions</i>	Longshore sediment transport variability changes into the end of 21st century Guilherme Vieira Da Silva <i>Griffith University</i>	Design and Construction Challenges of Boating Infrastructure in the Fitzroy River Delta Senarath Weerakoon <i>Maritime Safety Queensland</i>	Australia's Largest Super Yacht Berth, Gold Coast, QLD Andy Hartley <i>Maritime And Civil Delivery Group & Dan Messiter</i> <i>Royal HaskoningDHV</i>
12.10pm – 12.30pm	Using physical model testing to inform coastal design in complex wave environments Jonathan Chan <i>UNSW Water Research Laboratory</i>	Evaluation of Wave Parameters for Structural Design at a Coast Fringed by Shallow Shoal Chi-yueh Chen <i>GHD</i>	Design of Pontoons and Supporting Structures in Cyclonic Conditions using Physical Modelling Jenny Loveday <i>KBR</i>	To repair or not to repair? A story of timber piles Catherine Bell <i>AW Maritime</i>
12.35pm – 1.00pm	Session 13 – Plenary			
12.35pm	Trelleborg Platinum Sponsor Address Nick Labrosse , <i>Trelleborg Marine and Infrastructure</i>			
12.40pm – 12.55pm	Australasian Coasts & Ports – a 50 year legacy Tom Shand , <i>University of Auckland & Tonkin + Taylor et. al</i>			
12.55pm	Conference Closing Remarks			
1.00pm – 1.30pm	Lunch			
1.30pm – 5.00pm	Technical Tours			

NextGEN Program



Wednesday 16 August 2023

Location	Trade Exhibition Area, The Wandiny Room
Chair:	Gildas Colleter
12:50pm - 12:55pm	Investigation of shoreline recession at Amity Point, North Stradbroke Island Michael Thomson JBP
12:55pm - 1:00pm	Maintaining and protecting ecological assets with strategic asset management: A Case Study Andy Boulton <i>Brightly Software</i>
1:00pm - 1:05pm	Establishing priorities for Australia's Coastal Research Infrastructure (CoastRI) Daniel Ierodionou <i>Deakin University</i>
1:05pm - 1:10pm	Fetch-limited wind-waves in the Auckland Harbour Henrique Rapizo <i>MetOcean Solutions</i>
1:10pm - 1:15pm	West Beach Boat Ramp Remediation and Upgrade Works Uddish Singh WGA
1:15pm - 1:20pm	Dredging Impacts: Practicalities of predicting dredge plumes in complex settings Kyra Stemm KBR
1:20pm - 1:25pm	Mini Ports Key to Regional Development Taking the Port to the Product Kieran Carvill <i>Seatransport Pty Ltd</i>

Thursday 17 August 2023

Location:	Trade Exhibition Area, The Wandiny Room
Chair:	Andrew Pomeroy
12:30pm - 12:35pm	Port planning considerations for future fuel bunkering facilities Marcus Chatto WSP
12:35pm - 12:40pm	International first 3+ lift insitu stabilisation approach for heavy duty port pavement Brody Clark WSP
12:40pm - 12:45pm	MetOcean and Simplified Downtime Study for a Proposed Seaport in Sarangani, Philippines Chi-Yueh Chen GHD
12:45pm - 12:50pm	Feasibility Assessment of Transshipment from an Existing Port Hamid Fanai BMT
12:50pm - 12:55pm	Automating Draft Surveys using Artificial Intelligence Samuel Frick <i>OMC International</i>
12:55pm - 1:00pm	Life Extension of Aging Wharf Infrastructure Liam Hall <i>Holmes ANZ LP</i>
1:00pm - 1:05pm	The new 3D reality workflow for port infrastructure inspection and maintenance Liam Holloway <i>Duractec Limited</i>
1:05pm - 1:10pm	Yarrabah Jetty - Thinking Outside the Box Jay McIntyre, Madsen Giersing