



**PIANC
APAC
2022**

2ND PIANC ASIA PACIFIC CONFERENCE
LEADERS AND PROFESSIONALS
COMING TOGETHER
4 - 7 SEPTEMBER 2022
MELBOURNE, AUSTRALIA
www.piancapac.com

Conference Program
(subject to change)

Sunday 4th September 2022

5.30pm – Registration Desk Open
7.30pm *Ballroom Foyer, Pullman Melbourne on the Park*

5.30pm – Welcome Reception
7.30pm *Trade Exhibition Area, Ballroom Foyer, Pullman Melbourne on the Park*
Includes drinks and canapés.

Sponsored by
Port of Melbourne



Monday 5th September 2022

8.00am **Conference Registration**
Ballroom Foyer, Pullman Melbourne on the Park

9.00am – Session 1 – Opening Plenary
10.10am *Ballroom 3*

9.00am – Welcome to Country
9.05am

9.05am – Conference Opening
9.30am **The Hon. Melissa Horne MP, Victorian Minister for Ports and Freight**

9.30am – Keynote Address
10.10am **Nick Ellul, General Manager Maritime / Harbour Master, Port of Geelong**

10.10am – Session 2 – Update of PIANC Commission Activities Internationally and in Australia & New Zealand (ANZ)
11.00am *Ballroom 3*

PIANC Maritime Commission (MarCom)
Scott Keane, Cardno now Stantec

PIANC Co-operation Commission (CoCom)
Ron Cox, Water Research Laboratory UNSW

PIANC Recreational Navigation Commission (RecCom)
Greg Fisk, BMT

PIANC Environmental Commission (EnviCom)
Marika Calfas, NSW Ports

11.00am – 11.30am **Morning Tea**

Session 3 11.30am – 12.45pm	3A: Ports and Marine Facilities - Design and Construction <i>Sponsored by</i> 	3B: Dredging and Reclamation	3C: Port Operations and Management
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Christopher To	Stuart Bettington	Jordan Butler
11.30am – 11.55am	Centerm Container Terminal Improvements: Meeting Demand for Increased Container Throughput Michael Coull <i>WSP Australia Pty Ltd</i>	Beneficial Reuse of Dredged Material for Beach Nourishment in WA Karim Ghaly <i>BMT</i>	How Australia's Port Sector is Ushering the Industry into the Digital Age Sasha-Lee Pretorius <i>DHI</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
11.55am – 12.20pm	Granite Island Causeway (Bridge) Replacement David McKay <i>WGA</i>	Garden Island Contaminated Dredging & Disposal Case Study Justin Sayer <i>Birdon</i>	Ship-in-channel intelligence using rapid-deploy inertial devices Jack Bucher <i>OMC International</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
12.20pm – 12.45pm	Swanson Dock East Berths Remediation and Strengthening Stephan Leppert <i>McConnell Dowell</i>	Rock Dredging Simon Burgmans <i>In2Dredging Pty Ltd</i>	The Future of Optimised Underwater Asset Management Matt Curtain <i>Roving Intelligence Pty Ltd</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
12.45pm – 1.50pm			
Lunch			
Session 4 1.50pm – 3.30pm	4A: Ports and Marine Facilities - Design and Construction <i>Sponsored by</i> 	4B: Climate Change Impacts and Adaptation	4C: Sustainability and Stakeholder Engagement <i>Sponsored by</i> 
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	David Dack	Claire Treeby	Peter Engelen
1.50pm – 2.15pm	Ōpōtiki Harbour Development Project – Construction Monitoring in a Digital Age Tom Shand <i>Tonkin + Taylor</i>	Investigating Sea Level Rise from the AHD to the AR6 Baseline Period Julian O'Grady <i>CSIRO</i>	Role of Stakeholders' Expectations and Organisational Culture in Sustainable Port Operation Talal Alharbi <i>Curtin University</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
2.15pm – 2.40pm	Darwin Shiplift Project: Approaches to Port Planning Challenges Richard Mocke <i>WGA</i>	Waterborne Transport : A 2021 Update of Climate Change Drivers and Impacts Ron Cox <i>Water Research Laboratory UNSW</i>	Sustainability Aspects of Brotherson Dock Life Extension Project Carsten Varming <i>NSW Ports</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
2.40pm – 3.05pm	Design and Construction of Breakwaters on Soft Seabeds – MarCom WG205 Update Stuart Bettington <i>Royal HaskoningDHV</i>	Climate Change Adaptation Planning for Ports and Inland Waterways - WG 178 Tanja Mackenzie <i>Rhelm</i>	Ship 'Rumble': Rio Class Low Frequency Noise Mitigation Rebecca McGrouther <i>Port Otago Limited & Craig Fitzgerald</i> <i>Marshall Day Acoustics</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>

3.05pm – 3.30pm	Guidance for Ports in Small Island Countries - MarCom WG240 Update Justin Cross <i>Royal HaskoningDHV</i>	Determinants to Decarbonize Ports During Planning Process Shivaprakash Rao <i>BMT Singapore</i>	The Importance of Materiality in Strategy Jackie Spiteri <i>Sustainable ESG</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>

3.30pm – 4.00pm

Afternoon Tea

Session 5 4.00pm – 5.40pm	5A: Port Operations and Management <i>Sponsored by</i> WGA	5B: Navigation	5C: Climate Change Impacts and Adaptation <i>Sponsored by</i> PORTS VICTORIA
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Luke Campbell	Jack Bucher	Tanja Mackenzie
4.00pm – 4.25pm	Mooring Line Barriers – Better Understanding the Risks we’re Mitigating Nicholas Deussen <i>WGA</i>	What Else Can AIS Data Provide? Zhen Kok <i>AMC Search</i>	Climate Change Impacts and Adaptation Measures for Napier City, New Zealand Rehan Shaikh <i>Napier City Council</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
4.25pm – 4.50pm	Breaking Point: Understanding the Dynamics of Parted Mooring Lines and Protection Barriers Jordan Butler <i>WGA</i>	Using PIANC Guidelines to Develop an Operating Tool for Planning Ship Manoeuvres Daniel Bruce <i>HR Wallingford</i>	Coastal Hazard Management at Fremantle Ports Joel Bonsel <i>Fremantle Ports</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
4.50pm – 5.15pm	Operationally Forecasting Required Tug Resources for Vessel Turning Jacob Suhr <i>Seaport OPX</i>	Managing safe navigation and asset protection in areas exposed to strong propeller and thruster flows Andrew Bradford <i>Baird Australia</i>	Climate Change Resilience – Implementing Practical Approaches for Ports and Harbours Greg Fisk <i>BMT</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
5.15pm – 5.40pm	Addressing Mooring Forces and Snap-back Hazards Sam Mazaheri <i>Dalrymple Bay Coal Terminal</i>	Update of WG171 - Ship handling Simulation Dedicated to Channel and Harbour Design Neil Lawson <i>Neil Lawson and Associates Pty Ltd</i>	Navigation risk impacts from offshore wind developments: insights from large USA projects Sean Garber <i>Baird Australia</i>
	<i>Questions</i>		<i>Questions</i>

5.40pm

Close of Day One

6.30pm –
8.30pm

Young Professionals Networking Function (all welcome)

*Imperial Hotel Bourke Street
Includes drinks and canapés.*

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Tuesday 6th September 2022

Conference Registration

8.30am

Ballroom Foyer, Pullman Melbourne on the Park

9.00am –
10.10am

Session 6 – Plenary
Ballroom 3

9.00am –
9.15am

Opening Remarks
PIANC LOC and ANZ Chairs

9.15am –
9.30am

Platinum Sponsor Addresses

9.30am –
10.10am


Keynote Address
A Blue Future: The Race to Create Natural Capital Markets and a Blue Economy
Will Glamore, Past Chair, PIANC ANZ
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Session 7 10.10am – 11.00am	7A: Ports and Marine Facilities – Design and Construction	7B: Coastal Processes and Risk Implications	7C: Working with Nature, Environment and Ecosystem Services
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Paul Constance	David Aubourg	Nicola Stokes
10.10am – 10.35am	Management and Refurbishment of Heritage Buildings - C Shed Colin Hedderwick <i>Fremantle Ports</i>	Apollo Bay, Victoria, Wave Climate Study James Mason <i>Cardno now Stantec</i>	Manning River Entrance Project: Preliminary Environmental Investigations for a Permanently Open Entrance Tanja Mackenzie <i>Rhelm</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
10.35am – 11.00am	Design of the Eden Wave Attenuator Ben Morgan <i>Advisian Pty Ltd</i>	Measurement and Modelling of Seiche Phenomena in NSW Harbours Indra Jayewardene <i>Manly Hydraulics Laboratory</i>	NO PRESENTATION
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>

11.00am – 11.30am

Morning Tea

Session 8 11.30am – 12.45pm	8A: Ports and Marine Facilities - Design and Construction	8B: Port Planning <i>Sponsored by</i> 	8C: Working with Nature, Environment and Ecosystem Services
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Sam Mazaheri	Michael Coull	Greg Fisk
11.30am – 11.55am	Appropriate Test Data & Durability Design of Concrete Marine Structures Frank Papworth <i>BCRC</i>	Green Hydrogen Port Site Selection David Aubourg <i>Advisian Pty Ltd</i>	Beneficial Use for Sustainable Waterborne Transport Infrastructure Projects Robert Nave <i>Port of Brisbane Pty Ltd</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>

11.55am – 12.20pm	Sheet Pile Wall Protection with Denso SeaShield™ 2020SP David Edelman <i>Edelman Projects Pty Ltd</i>	Compressed Hydrogen: An Alternative Approach to Shipping Hydrogen Christopher To <i>WSP Australia Pty Ltd</i>	Engineered Fringing Reefs: Engineering with Nature Solutions for Coastal Erosion Control Matthew Allen <i>Subcon</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
12.20pm – 12.45pm	Evaluating the Impact of Hydrogel Technology on Concrete Permeability Douglas Hamlin <i>Markham</i>	Revision to PIANC WG184 – Design Principles for Dry Bulk Marine Terminals Grace Go <i>Aspec Engineering</i>	Effects of Shading on Health of Two Branching Corals in Queensland, Australia Ralph Alquezar <i>Vision Environment</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
12.45pm – 1.50pm			
Lunch			
Session 9 1.50pm – 3.30pm	9A: Ports and Marine Facilities - Design and Construction <i>Sponsored by</i>  ▶ on the safe side	9B: Port Operations and Management <i>Sponsored by</i> 	9C: Working with Nature, Environment and Ecosystem Services
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Laurence Benn	Carsten Varming	Jackie Spiteri
1.50pm – 2.15pm	How Ports Benefit from a Holistic Approach to Fender System Design Thore Kollmorgen <i>ShibataFenderTeam</i>	Expansion of Operability Assessment Criteria in Bulk Carrier Transhipment Operations Sam Dickson <i>DHI</i>	Implications of Invasive Alien Species for Waterborne Transport Infrastructure: Envicom WG218 Update Nicola Stokes <i>North Queensland Bulk Ports Corporation</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
2.15pm – 2.40pm	Updates of PIANC Working Group 211: Fender Guidelines Harvinder Singh <i>Jacobs</i>	Monitoring and Managing Aids to Navigation in the Digital World Malcolm Nicholson <i>Sealite</i>	EnviCom WG227: Decision-Making for Environmental Windows & Seasonal Restrictions for Marine Works David Petch <i>GHD</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
2.40pm – 3.05pm	Taking the Guesswork out of Berthing Energy Assessment Arne Nilsen <i>Aurecon Australasia Pty Ltd</i>	Monitoring and Analysis of Wake-Induced Vessel Motions: An Innovative Case-Study - Williamstown, Melbourne Daniel Machado <i>BMT</i>	Approaches to foreshore management using adaptive nature-based solutions and living foreshores Nick Lewis <i>Royal HaskoningDHV</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
3.05pm – 3.30pm	Assessment of Larger Ships Berthing at a Salt Export Terminal Ben Spalding <i>HR Wallingford</i>	Introducing Key Indicators for Structural Integrity Risk Analysis of Port/Maritime Assets Sam Mazaheri <i>Dalrymple Bay Coal Terminal</i>	Laboratory Settlement Testing to determine Settling Characteristics of Fine Crushed Rock Rick Plain <i>Royal HaskoningDHV</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
3.30pm – 4.00pm			
Afternoon Tea			

Session 10 4.00pm – 5.15pm	10A: Pacific Island Ports	10B: Port Operations and Management Sponsored by PORTS VICTORIA	10C: Ports Design and Planning Sponsored by SHIBATAFENDERTEAM on the safe side
Location	Ballroom 3	Ballroom 2	Ballroom 1
Chair	Tom Shand	Colin Hedderwick	Thore Kollmorgen
4.00pm – 4.25pm	Beyond the Roadmap: Approaching Environmental Sustainability Challenges in Pacific Island Ports Edward Rowe <i>Arup</i>	Achieving Australia's Deepest Ever Container Vessels Brendan Curtis <i>OMC International</i>	PIANC MarCom WG 194 – A Framework for Early Contractor Involvement David Kinlan <i>Kinlan Consulting</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
4.25pm – 4.50pm	Good Practice in Environmental Impact Assessment for Coastal Engineering in the Pacific Andrew Fielding <i>Royal HaskoningDHV</i>	Planning for Automation of Container Terminals Carsten Varming <i>NSW Ports</i>	MarCom WG164 Update – Upgrade of Port Berths by Increasing Dredged Depth Michael Coull <i>WSP Australia Pty Ltd</i>
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>
4.50pm – 5.15pm	Connectivity Assessment for the Pacific Region based on Work for World Bank Richard Hill <i>GHD</i>	Intermodal Terminal Automation – Opportunities & Challenges Mahim Khanna <i>TBA B V</i>	Update on WG 224 Planning of Fishing Ports Meysam Rad
	<i>Questions</i>	<i>Questions</i>	<i>Questions</i>

5.15pm

Close of Day Two

**7.00pm –
11.00pm**

Conference Dinner & Awards
Ballroom, Pullman Melbourne on the Park
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Wednesday 7th September 2022

Technical Tours

Buses depart from, and return to, street adjacent to Pullman Melbourne on the Park

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Advisory

Technical Tour 1: Port Melbourne Boat Tour

Departs: 9.15am Returns 12.45pm (approx.). Morning tea included.

Technical Tour 2: Port Infrastructure Technical Tour

Departs 9.00am, Returns 2.30pm (approx.). Lunch included.