



**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
9.10am *Wurundjeri Woi Wurrung Cultural Heritage Aboriginal Corporation*

9.10am – Conference Opening
9.30am **The Hon. Melissa Horne MP**, *Victorian Minister for Ports and Freight*
Luke Campbell, *Chair PIANZ ANZ*

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 Navigation 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	TBC
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>Rheln</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>	NO PRESENTATION	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>	<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.*

Sponsored by



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 – Opening Remarks
9.15am **PIANC LOC and ANZ Chairs**

9.15am – Platinum Sponsor Address
9.30am **WGA**


9.30am – Keynote Address
10.10am A Blue Future: The Race to Create Natural Capital Markets and a Blue Economy
Will Glamore, Past Chair, PIANC ANZ
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ARUP

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	Chris Millwood
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>UGL Regional Linx</i>
	<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
Sponsored by



Wednesday 7th September 2022

Technical Tours

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

Sponsored by



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.