



Connecting and Sharing - Oceania and Asia-Pacific Neighbours



**PIANC
APAC
2026**

4TH PIANC AU-NZ BIENNIAL CONFERENCE
FOCUSING ON OCEANIA AND OUR
ASIA-PACIFIC NEIGHBOURS
25 - 27 AUGUST 2026, BRISBANE, AUSTRALIA
www.piancapac.com

Conference Program (subject to change)

Tuesday 25th August 2026

Technical Tours

1.00pm –
5.00pm

Tour 1: Port of Brisbane and Patrick AutoStrad™ Port Infrastructure Tour

Tour 2: Brisbane River Tour (CityCat)

Tour 3: South Bank and Queensland Maritime Museum Walking Tour

Both tours depart from and return to BCEC

5.30pm –
7.30pm

Registration Desk Open

Boulevard Auditorium Foyer, BCEC (Grey Street Entrance)

5.30pm –
7.30pm

Welcome Reception

Trade Exhibition Area, Boulevard Auditorium Foyer, BCEC

Includes drinks and canapés.

Sponsored by **ARUP**

Wednesday 26th August 2026

7.45am

Conference Registration

Boulevard Auditorium Foyer, BCEC (Grey Street Entrance)

8.45am – 10.30am

Session 1 – Opening Plenary

Boulevard Auditorium

8.45am – 8.55am

Welcome and Housekeeping

PIANC APAC 2026 LOC Chair and PIANC AU-NZ Chair

8.50am – 9.00am

Welcome to Country

Representative of the Turrbal People

9.00am – 9.20am

Conference Opening and PIANC President Address

Francisco Esteban Lefler, President PIANC

9.20am – 9.40am

Opening Address



9.40am – 10.25am

Keynote Address: Building Connection: Elevating Pilotage in the Pacific Region

Giles Lesser, OMC International & John Clarke, Marine Pilot, Dampier, WA

Sponsored by **SJ smec**

10.25am – 10.30am **Platinum Sponsor Address**



10.30am – 11.00am

Morning Tea

Session 2 11.00am – 12.40pm	2A: Port Planning and Engineering	2B: Technological and Digital Advancements	2C: Port Planning and Engineering	2D: Port Operations and Management	2E: Working with Nature, Environment and Ecosystem Services
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					
11.00am – 11.20am	Finding the Frequency: What Makes a Harbour Resonate? Dougal Greer <i>ORCAS Consulting</i>	From Reality Capture to Asset Intelligence: Modelling for Operational Port Asset Management Jane Hogben <i>MEnD</i>	Comparing the Latest Fender Design Guidelines: BS 6349-4:2026 vs PIANC WG211 Adam Sellers <i>Trelleborg Marine Systems Australia</i>	The End of Snapback: A New Era in Mooring Safety Thomas Fields <i>Moorguard</i>	Within-day variation in fish eDNA composition in Tokyo Bay Shota Homma <i>Port and Airport Research Institute</i>
11.20am – 11.40am	Modelling of Infragravity Wave and Moored Ship Response for Geraldton Port Wim Van Der Molen <i>Baird</i>	Asset Digitisation for Next-Generation Port Asset Management: A GeelongPort Perspective Yossi Kahlon <i>Skand</i>	Berthing Energy under PIANC WG211: Insights from a Bulk Terminal Case Study Sam Mazaheri <i>Dalrymple Bay Terminal</i>	Modular Snapback Barriers Behaviour in Response to Parted Mooring lines: Full-Scale Testing Mojtaba Tajziehchi <i>Geobrugg Australia</i>	Reef-Risk: Integrating Hydrodynamics and Empirical Thresholds for Reef Vulnerability Assessment Wen Deng <i>University of Queensland</i>
11.40am – 12.00pm	Validated Hydrodynamic Modelling to Support Ship Simulation and a Tidal Atlas Georgia Stones <i>BMT Commercial Australia</i>	Digital Inspection Workflow for Visual Inspections on Maritime Assets Sam Smith <i>Agilitus</i>	Integrating 3D Engineering and Mooring Simulations to Assess Tanker Re-Positioning at Townsville Paul Turney <i>SMEC Australia</i>	Maintenance and Verification Strategies for Load Monitoring Systems in Marine Terminals Charles Bryant <i>Trelleborg Marine Systems Australia</i>	CoastRI: A National Coastal Research Infrastructure Initiative Daniel Ierodiaconou <i>Integrated Marine Observing System/ Deakin University</i>
12.00pm – 12.20pm	Multiphase CFD Modelling of Wave Impact for Pile-Supported Structures with Downstand Beams Mark Bennet <i>WGA</i>	The adaptation of a proven wood inspection technology for underwater timber assessment Jen Grehan <i>ROVing Intelligence</i>	Ultramax Vessel Study at Port Hedland Berth 3 Stephen Jenks <i>Hatch</i>	Mooring Time and STS Container Crane productivity gains with a MoorMaster System David Williams <i>Cavotec</i>	Beach Erosion Assessment Using Joint Probability of Wave Height and Water Level Ye Htet Oo <i>Water Technology</i>
12:20pm – 12:40pm	Wave Induced Uplift Loads for Wharf Structural Analysis: Empirical & CFD Methods John Phillip Lapidez <i>Jacobs</i>	Integrating Laser Scanning, Bathymetric Data and BIM for Remediation and New Construction Saeedeh Zeyni <i>AW Maritime</i>	Advancing Navigational Risk Assessments Through Data-Driven Agent-Based Simulation Methods: The SIREN Framework Reza Kazeroni <i>DHI</i>	Mooring Line Efficiency at Typical Fairleads – Early Evidence and Practical Implications Ben Poulter <i>Holmes Solutions</i>	From Dredge Trial to Decision: Coastal Monitoring Informing Evidence-Based Sand Management Ryan Nguyen <i>Hatch</i>

12.40pm – 1.40pm Lunch					
Session 3 1.40pm – 3.00pm	3A: Port Planning and Engineering	3B: Dredging and Reclamation	3C: Port Planning and Engineering	3D: Maritime Development in Emerging and Developing Countries	3E: Working with Nature, Environment and Ecosystem Services
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					
1.40pm – 2.00pm	Vortex-Shedding Screening of an AtoN Tower: Australian-European Code Approach Comparison Mohammad Asad <i>AW Maritime</i>	Towards smarter sediment management: forecasting approaches for sustainable dredging Wen Deng <i>University of Queensland</i>	Unifying Crack-Control Approaches for Marine Structures: A Shift Beyond Working-Stress Design Francesco Bonacci <i>WSP</i>	Remote Area Marine Infrastructure Design – Torres Strait Case Study Stuart Bettington <i>Haskoning Australia</i>	Practical Green–Grey Coastal Protection for Fiji’s Villages Craig Dengate <i>GHD</i>
2.00pm – 2.20pm	Preventing Premature Failure of Slender Beacon Piles Through Practical Lifecycle Design Kaveh Espandar <i>AW Maritime</i>	Reducing Uncertainty in Predicting Maintenance Dredging Requirements Using a Field-Informed Siltation Model Hadi Sadeghian <i>Jacobs</i>	Durability performance of prestressed concrete girders in a marine environment Dan Bryant <i>Aurecon</i>	Design Challenges and Recommendations for Maritime Infrastructure in the Pacific David Kunst <i>Haskoning Australia</i>	Moffat Beach Seawall Reconstruction Project Peter Kastrup <i>Shoreline Civil & Marine Consulting</i>
2.20pm – 2.40pm	Designing Navigation Aids in Challenging Ground Conditions: Lessons from Navaid 52, PoN Luke Lyons <i>Agilitus</i>	Estimating Solid Retention and Overflow Losses in Hopper Dredgers Using 1DV Sedimentation Mercedes Cornejo <i>In2dredging</i>	Engineering Oversight in In-Situ Concrete Testing for Maritime Structures Kayne Davies <i>AW Maritime</i>	Field Experience: Boat Harbour Construction in Niutao Tuvalu Hannah Wilson <i>Hall Contracting</i>	Working with Nature: From Emergency Response to Large-Scale Beach Nourishment Recovery Isaac Goessling <i>Water Technology</i>
2.40pm – 3.00pm	Devonport Tug Berths: Innovative concept in complex conditions Tim Crawford <i>AW Maritime</i>	Predicting Bulk Density and Consolidation Behaviour of Fine Sediments in Reclamation Basins Simon Burgmans <i>in2Dredging</i>	Navigating the Real-World Challenges of Concrete ICCP Brendon Grey <i>Infracorr Consulting</i>	Reframing Maritime Standards as Performance Solutions in developing South Pacific countries Aaron Carvalho <i>KBR</i>	Working with Nature on a Predator-Free Island – Matiu/Somes Island Wharf Replacement Rhys Winter <i>Brian Perry Civil</i>
3.00pm – 3.30pm Afternoon Tea					

Session 4 3.30pm – 5.10pm	4A: Port Planning and Engineering	4B: Technological and Digital Advancements	4C: Port Planning and Engineering	4D: Port Operations and Management	4E: Working with Nature, Environment and Ecosystem Services
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					
3.30pm – 3.50pm	Port Kembla B104 Wharf Extension Shane Freeman <i>NSW Ports</i>	LiDAR Moored Ship Motion Measurements at Port of Napier Tim Gourlay <i>Perth Hydro</i>	Declutching in Combi-Walls: A Predictable Risk That Must Be Managed Early Beth FitzGerald <i>Worley Consulting</i>	Metocean Design Criteria and Operational Forecasting for Marine Construction Offshore Belmont, NSW Andrew Bradford <i>Baird Australia</i>	Evaluating an Intertidal Garden Feasibility in a High Energy Foreshore Environment Hadi Hosseinzadeh & Julius Florenz Giron <i>Stantec Australia</i>
3.50pm – 4.10pm	Eastland Port Twin-Berth Extension – Stage 1 Ruwan Seneviratne <i>Worley</i>	Flinders Ports and SiteHive: Real-Time Environmental Intelligence for Port Operations Ben Cooper-Woolley <i>SiteHive</i>	CFA Piling Adjacent to Operational Wharf Under Variable Ground Conditions Mani Palaniswamy <i>Flinders Port Holdings</i>	Nowcasting Infragravity Wave Characteristics from Contemporaneous Metocean Observations Using Machine Learning Ben Williams <i>O2 Marine</i>	Beneficial re-use of dredged material for shoreline protection and wetland creation Nick Lewis <i>Moffatt & Nichol</i>
4.10pm – 4.30pm	Assessment of Effects for Bledisloe North Wharf and Fergusson North Wharf Extension Reza Shafiei <i>Beca</i>	Offshore-to-Nearshore Wave Transformation for Terminal Planning Alireza Valizadeh <i>Ports and Terminals</i>	Framework for Sizing Rock Bags Against Scour Underneath Open Berth Structures Amy Blind <i>WSP</i>	Progress in Tsunami Hazard Mitigation at New Zealand Ports Jose Borrero <i>ORCAS Consulting</i>	Barriers to the Beneficial Reuse of Dredged Sediments Charlie Bicknell <i>WSP</i>
4.30pm – 4.50pm	A Success Story in ECI Delivery - Ariki Tahiti Sugarloaf Wharf Upgrade Chris Walker <i>WGA</i>	Geo-structural Coupled Parametric Modelling of Deck on Pile Structures Sean Donovan <i>WGA</i>	Innovative Solution for Protection of Quay Walls Against Propeller-induced Scour :Case Study Mojtaba Tajziehchi <i>Geobrugg Australia</i>	AIS-based analysis of first-time emergency locking procedures at German Moselle lock Müden Philipp Parche <i>Federal Waterways Engineering and Research Institute</i>	Integrated modelling approach to assess marine environmental impacts of trenching-generated suspended sediments Nuala Page <i>RPS</i>
4.50pm – 5.10pm	AIMS Harbour Redevelopment - Evolution of Design Sam Knight <i>Haskoning Australia</i>	Managing Critical Mooring Risks at TasPorts Aidan Lewis <i>Tasmanian Ports Corporation</i>	Physical modelling of rock bag scour protection at NSW Overseas Passenger Terminal Dan Howe <i>UNSW Water Research Laboratory</i>	Swell and Infragravity Wave Climate in Apra Harbor, Guam Sean Garber <i>Baird Australia</i>	Improving a recreational boating asset - turning user experience into engineering design Eloise Rossetto <i>KBR</i>

5.10pm

Close of Day One

6.30pm –

8.30pm

Young Professionals Networking Function
Pig n' Whistle, 133 Grey Street, South Brisbane
Includes drinks and canapés.

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Thursday 27th August 2026

Conference Registration

8.15am

Boulevard Auditorium Foyer, BCEC (Grey Street Entrance)

8.45am – 9.45am

Session 5– Plenary

Boulevard Auditorium

8.45am – 8.55am

Housekeeping and Opening Remarks

PIANC APAC 2026 LOC Chair and PIANC AU-NZ Chair

8.55am – 9.00am

Platinum Sponsor Address



9.00am – 9.40am

Keynote Address: Leading Transformation for Nature-Positive Infrastructure and Resilient Ports

Todd Bridges, University of Georgia, United States



Boskalis

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9.40am – 9.45am

Platinum Sponsor Address



Session 6 9.50am – 10.30am	6A: Port Planning and Engineering	6B: Decarbonisation and Climate Change Adaptation	6C: Port Planning and Engineering	6D: Maritime Development in Emerging and Developing Countries	6E: Working with Nature, Environment and Ecosystem Services
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					
9.50am – 10.10am	Port capacity planning for the future of Western Australia Ben Spalding <i>HR Wallingford</i>	Mobile shore power systems for efficient and sustainable port operations Thore Kollmorgen <i>ShibataFenderTeam</i>	Container Port Location Selection using AHP Decision Analysis Engy Mikhail <i>Jacobs</i>	Hydrocarbon Liquid Berths in a Tidal River Meenakshy Panikkaveettil <i>KBR</i>	ROVs as a surveillance method for introduced marine pests in ports Alex Swanson <i>H2O Consulting Group</i>
10.10am – 10.30am	Balancing Static and Dynamic Models to Plan Resilient Ports of the Future Alice Zsembery <i>Moffatt & Nichol</i>	Applying Low Carbon Concrete in Industry Philip Vimpani <i>Arup</i>	Cost Maturity Frameworks to Improve Investment Decision-Making in Port and Marine Projects Gavin Sutherland <i>WT Partnership</i>	Options for Dry-docking Vessels with Particular Reference to Graving Docks Alan Cowley <i>Jacobs Engineering</i>	Separating Climatic Effects and Other Drivers on Mangroves at Port of Brisbane Darren Richardson <i>BMT Australia</i>

10.30am – 11.00am

Morning Tea

Session 7 11.00am – 12.40pm	7A: Port Planning and Engineering	7B: Decarbonisation and Climate Change Adaptation	7C: Port Planning and Engineering	7D: Maritime Development in Emerging and Developing Countries	7E: WG 267: The Role of Waterborne Transport Infrastructure in Biodiversity Enhancement
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					<i>Dinda Mazeda</i>
11.00am – 11.20am	WG261: An Update to PIANC Design Principles for Dry Bulk Marine Terminals Grace Go <i>Aspec Engineering</i>	Building Climate-Resilient and Low-Carbon Maritime Infrastructure in the Philippines Zoe Zollinger <i>Haskoning Australia</i>	Risk-Based Approach to Wharf Upgrades in Busy Ports Masoud Hosseini <i>Stantec</i>	Adapting International Wharf Assessments for Developing Philippine Marine Ports Julliene Alex Arceo <i>GHD</i>	Opening and update from WG 267 and Mitigation hierarchy for large-scale coastal development and infrastructure projects Dinda Mazeda <i>Boskalis Australia</i>
11.20am – 11.40am	Shiploader removal procedure and challenges Kent Abey <i>Aurecon</i>	Climate Change Perspectives on the Maritime and Recreational Industries Gildas Colleter <i>Water Technology</i>	Risk-Based Life Extension of Timber Piles Using Field Data and Structural Modelling Andy Fung <i>Aurecon</i>	Framework to Delivery: A Seismic LNG Jetty Case Study in the Philippines Serj Donn David <i>GHD</i>	D-Eco Impact: A tool for spatio-temporal ecological impact assessments Natasha Flores <i>Deltares</i>
11.40am – 12.00pm	Synergistic Design: integrated solutions for shiploader replacement at Dalrymple Bay Terminal Jack Kliner <i>Aurecon</i>	Physical Modelling of Wave-driven Sea Ice Drift Azam Dolatshah <i>Hatch</i>	Keeping Berths Berthing: Integrated Planning and Rehab for an Ageing Wharf Burgert Wilken <i>WGA</i>	Non-Linear Dynamic Analysis for Liquefaction Assessment Using Advanced Constitutive Models Helli-mar Trilles <i>GHD</i>	Building Tomorrow: Workshop Synthesis on Additive Manufacturing and Nature-Inspired Design for Biodiversity Alyssa Calomeni-Eck <i>US Army Engineer Research and Development Center</i>
12.00pm – 12.20pm	Improvements in the design of heavy haul rail indexing systems Paul Jacobsen <i>Aurecon</i>	Harboring change: a three-part framework for port decarbonisation James Wilkinson <i>Jacobs</i>	De-risking delivery of critical wharf remediation Andrew Wright <i>Port of Melbourne</i>	Domestic Port Development in the Pacific Islands Kane Satterthwaite <i>Beca</i>	Re-introducing light to working waterfronts: Ecological implications for port design Katherine Dafforn <i>Umass Boston Stone Living Lab</i>
12.20pm – 12.40pm	Designing a multi-product stockyard using dynamic simulation Abbey Trewenack <i>Theia</i>	Compliance to Resilience: How Sustainability Reporting is Transforming Board Climate Risk Oversight James Crewe <i>McConnell Dowell</i>	Fremantle Ports - Outer Harbour Bollard Replacements Aaron Cook <i>Fremantle Ports</i>	<i>TBC</i>	12.20pm – 12.50pm WG 267 Workshop Chaired by Matthew Allen, Annabel Dyson

12.40pm –
1.40pm

Lunch

Session 8 1.40pm – 3.00pm	8A: Port Planning and Engineering	8B: Technological and Digital Advancements	8C: Port Planning and Engineering	8D: Port Operations and Management	8E: WG 267: The Role of Waterborne Transport Infrastructure in Biodiversity Enhancement
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair					<i>Dinda Mazeda</i>
1.40pm – 2.00pm	Accelerated Reconstruction of Cyclone Damaged Export Wharf at Groote Eylandt Dylan Williams <i>Aurecon</i>	FlexTerm Emulation Proof of Concept for Tauranga Container Terminal Automation Project Rodney Hancock <i>Moffatt & Nichol</i>	PIANC WG254 Update of Superyacht Marina Guidelines Mike Thackray <i>Yachtmarinas Australia</i>	Engineering Decision-Making for Deteriorating Marine Infrastructure: Operational Ports and Public Coastal Infrastructure Tom Atkins <i>AW Maritime</i>	Living Ports: opportunities and challenges for greening of grey infrastructure Melanie Bishop <i>Macquarie University</i>
2.00pm – 2.20pm	Stabilisation of Cyclone Damaged Export Wharf and Shiploader at Groote Eylandt Dylan Williams <i>Aurecon</i>	Implement digitalization into small- and medium-sized ports – A case study Guangrong Zou <i>VTT Technical Research Centre of Finland</i>	Wave protection in recreational facilities in Port Phillip Bay Toby Devlin <i>Water Technology</i>	Innovations in Planning and Execution of Large-scale Structural Remediation Shutdowns Anthony Muhling <i>Aurecon</i>	Lessons Learnt from the Application of Dredge Material Beneficial Use Framework Bradley Smith <i>Westpeak Engineering</i>
2.20pm – 2.40pm	Engineering Cost-Effective, Climate Resilient Maritime Structures Through Displacement-Based Design Jordan Wolfe <i>Wolfe</i>	Jetty bent corrosion repair optimisation at Lucinda Bulk Sugar Terminal Edwin Swierstra <i>Aurecon</i>	Delivering Coastal Recreation at Bowen: a Recreational Jetty and Shared Access Causeway Sin Nyap Tan & Stuart McConnell <i>North Queensland Bulk Ports</i>	Smarter Wharf Assessments: Next-Gen Data and AI in WSCAM 2022 Hein Zaw <i>KBR</i>	Aligning Port Development with Sustainability Goals: The Westport Seagrass Restoration Strategy Michael Brooker <i>Westport</i>
2.40pm – 3.00pm	Limestone Port Upgrades – Design Flexibility and Stakeholder Collaboration Alastair Oliver <i>WGA</i>	Key Challenges in Upgrading Port Fire Foam System from PFAS Foams Dave Afshari <i>Fire Engineering Solutions QLD</i>	Porous-Surface Elevated Public Boat Ramp constructed from FRP and GFRP Reinforced Concrete Andrew Turnbull-Miller <i>Shoreline Civil & Marine Consulting</i>	Optimised Design & Construction of 2.4km jetty with SPCTS Peter Volesky <i>McConnell Dowell</i>	Planning Artificial Reefs in a Complex Marine Environment: A Case Study from Western Australia's Westport Project Lynda Curtis <i>Westport</i>

3.00pm –
3.30pm

Afternoon Tea

Session 9 3.30pm – 4.50pm	9A: Port Planning and Engineering 	9B: Dredging and Reclamation	9C: Port Planning and Engineering	9D: Ports and Shipping Enabling the Clean Energy Transition	9E: Decarbonisation and Climate Change Adaptation
Location	Auditorium	B1	B2	B3	Boulevard Room
Chair	Harvinder Singh				
3.30pm – 3.50pm	Apia Port Master Plan Update Richard Hill GHD Australia	Data-Driven Risk Management: The Port of Brisbane Channel Enhancement Project Jake Parrish WSP Australia	Design of the New Southern Barge Ramp at Port of Cairns Michael Kelleher Shoreline Civil & Marine Consulting	The Port–Rail Interface: Revisiting Port Botany’s Rail Planning Ten Years On Mahim Khanna Portwise - Haskoning Company	Improving seawall resilience using Cubipod® armour units: a first for Asia-Pacific Jennifer Hart Beca
3.50pm – 4.10pm	Queen Salote International Wharf Resilient Maritime Infrastructure in a Pacific Island Environment Ali Minhas Haskoning Australia	Connecting Knowledge: Key Considerations for the Development of Maintenance Dredging Strategies Catherine Bell AW Maritime	Design of Offshore Intake&Outfall Structures for the Alkimos Seawater Desalination Plant Hari Panchumarthi Jacobs	Challenges for offshore wind construction ports in Australia Eoin Richardson Jacobs	Devil in the detail – toes, transitions and terminations in patternplaced armourunits Tom Shand Tonkin + Taylor
4.10pm – 4.30pm	Addressing Harbour Tranquillity Through Port Layout Redesign: Lessons from Aiwo Port Hoan Nguyen Haskoning Australia	Closure of a Barrier Island Breakthrough in a Multi-Inlet System: Bribie Island Zac Couper BMT Australia	Port Development Insights for Future AMF Transitions, based on Historic Fuel Transitions David Aubourg Worley	Green Fuels and Bunkering Infrastructure Requirements Gabe Tooker Worley Consulting	TBC
4.30pm – 4.50pm	Niue Wharf Feasibility Study: To dock at “The Rock” or not? Andrew Brown Tonkin + Taylor	Rapid emergency tidal closure works at Bribie Island, Queensland Aaron Salyer International Coastal Management	Evaluation of design techniques for extra heavy-duty flexible pavements and other considerations Boon Chua KBR Australia	Environmental Forcing Effects on AIS-Based Vessel Emissions Estimates in Shallow Port Channels Timothy Womersley DHI Seaport	TBC
4.50pm – 4.55pm					
Changeover					
4.55pm – 5.15pm					
Session 10– Plenary Boulevard Auditorium					

4.55pm – 5.00pm **Gold Sponsor Address**



5.00pm – 5.20pm **Conference wrap-up**

PIANC APAC 2026 LOC Chair and PIANC President, Francisco Esteban Lefler

7.30pm –

Conference Dinner & Awards

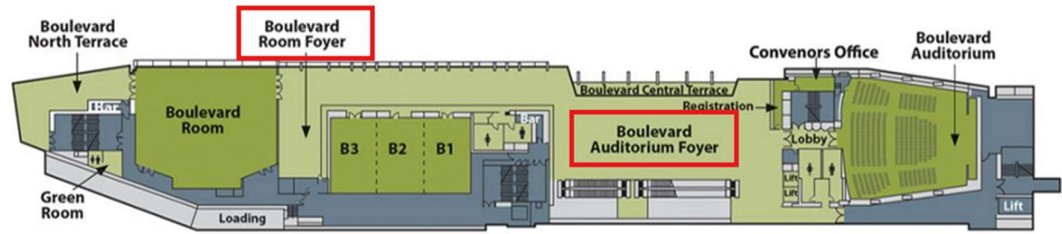
11.30pm

Brisbane Convention & Exhibition Centre

Dinner Speaker: **Craig Longmuir**, Regional Harbour Master - Mackay

Sponsored by **WGA**

Conference Venue Map



Note

The 20-minute sessions include 15 minutes for the paper presentation, 3 minutes for Q&A, and two minutes for movement between rooms.