

THE WORLD ASSOCIATION FOR WATERBORNE TRANSPORT INFRASTRUCTURE

PIANC

AUSTRALIA & NEW ZEALAND
ANNUAL REPORT 2022



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PIANC Australia & New Zealand
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WHAT IS PIANC?

The World Association for Waterborne Transport Infrastructure.

Bringing together experts on technical, economic, environmental and planning issues pertaining to waterborne transport infrastructure.

PIANC is the forum where professionals around the world join forces to provide expert guidance on cost-effective, reliable and sustainable infrastructure to facilitate waterborne transport.

PIANC (which historically stood for the Permanent International Association of Navigational Congresses) began in 1885 – one of the first international technical organisations, committed to regular global gatherings of experts to share knowledge and expertise.

A non-political and non-profit organisation, PIANC continues to be the leading partner for government and the private sector in the design, development and maintenance of ports, waterways and coastal areas. Members include national governments and public authorities, corporations and interested individuals.

At the core of PIANC's mission is the publication of high-quality Technical Reports realised by international Working Groups. PIANC Working Groups are composed of participants from multiple member countries who have expertise in the issue being investigated. The groups gather, analyse, and consolidate international, state-of-the-art, best practice material to provide evidence-based guidance.

PIANC's other key pursuit is the organisation of international and regional conferences, such as the four-yearly PIANC World Conference, last held in Panama City in 2018. After three years of Covid disruptions, the 35th PIANC World Congress will be held in Cape Town, South Africa, in 2024.



PIANC Australia & New Zealand

PIANC Australia & New Zealand is one of the largest of the 28 National Sections within PIANC, with a growing membership of 88 corporate members and 163 individuals (including 45 student members).

Our core purpose is to provide leadership in the field of waterborne transport infrastructure to advance the communities, economies and environments in Australia and New Zealand.

What we do to fulfil our core purpose:

- Share industry knowledge and best practices through local, national and regional events, including the biennial Coasts and Ports Conference – the pre-eminent forum for professionals to discuss multi-disciplinary issues related to coasts and ports.
- Promote PIANC Technical Reports and other publications, and actively contribute our knowledge and experience for their development.
- Work with government and other industry bodies to positively influence policy and provide guidance relating to waterborne transport infrastructure in our region.
- Nominate and support PIANC Australia & New Zealand members to join relevant PIANC Working Groups.
- Support the next generation of professionals in our industry by providing education and guidance which fills the gap beyond academic studies.
- Create opportunities for young professionals to meet and network with the broader industry.
- Represent the interests of our members with PIANC HQ and provide representation on relevant PIANC Commissions.



THE CHAIR'S REPORT



“We have commenced the development of a PIANC A&NZ Diversity Policy and look forward to sharing this with our members in 2023”

At our 2022 AGM the innovative and inspiring Will Glamore stepped down from the helm of our hardworking Board and I became Chair. Huge thanks must go to Will for his visionary leadership over the past five years. It's a pleasure and a privilege for me to revisit PIANC A&NZ's major achievements in this Annual Report.

Despite the ongoing challenges of 2022, PIANC A&NZ members participated strongly in PIANC's International Working Groups, as well as producing many major local achievements and events. These included our co-hosting of the Australian and New Zealand Coasts & Ports Conference 2021, held in New Zealand in April 2022 as a fully online event, and PIANC's second Asia Pacific regional conference APAC2022 held in-person in Melbourne in September. Both conferences were a success, in technical knowledge-sharing and financially, and sincere thanks and congratulations must go to the local organising committees.

In 2022 we continued the process of aligning PIANC A&NZ activities and processes with the UN Sustainable Development Goals. We have commenced the development of a PIANC A&NZ Diversity Policy and look forward to sharing this with our members in 2023.

We supported and engaged our membership through the amazing work of regional chapters and YPs, who between them organised 18 regional technical and networking events in 2022, including the inspirational YP Leadership Breakfast series held in Brisbane, Newcastle, & Perth. New collaborations between Ports Australia and PIANC saw a very successful joint three-day event held in Darwin in October – The Engineering & Asset Management Working Group looked at the current and future development of maritime infrastructure in this strategic region. Our WA chapter celebrated the inaugural International Day for Women in Maritime in May 2022, in collaboration with WISTA.

Looking ahead, I personally am passionate about expanding the PIANC community across the Pacific region, increasing our connections and outreach beyond Australia and New Zealand, particularly reaching out to island nations facing the challenges of climate change. Wherever you are, I urge all of you to stay in touch and get involved!

LUKE CAMPBELL

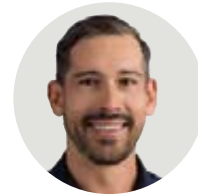
BOARD MEMBERS



JOEL BAILEY
Position: Board Member
Managing Director,
Wavelength Consultancy



LAURENCE BENN
Position: Deputy Treasurer
Principal Engineer of Critical
Projects at OMC International



WILLIAM BLANK
Position: Board Member
Associate Director – Development
at Hall Contracting



GREG BRITTON
Position: PIANC A&NZ
Commission Lead
Director of Royal Haskoning DHV
in Australia.



LUKE CAMPBELL
Position: PIANC A&NZ Chair
Director at WGA
(Wallbridge Gilbert Aztec),
WA Manager.



CHRIS CARBOON
Position: Secretary
Senior Consultant – Ports and
Coastal at Jacobs



RON COX
Position: NCCOE* Representative
Water Research Laboratory, UNSW
Civil & Environmental Engineering.
* NCCOE – National Committee on
Coastal and Ocean Engineering (NCCOE)
of Engineers Australia (EA)



MICHEL DE VOS
Position: Board Member
General Manager Infrastructure
Services at Napier Port,
New Zealand



PETER ENGELEN
Position: Deputy Chair
General Manager, Planning and
Infrastructure at NSW Ports.



WILL GLAMORE
Position: Board Member
Professor at Water Research
Laboratory, UNSW Sydney



MIKE GALLACHER
Position: Ports Australia
Representative
CEO Ports Australia



RHYS JONES
Position: Board Member
GM – Engineering, Darwin Port



SCOTT KEANE
Position: Board Member
Industry Director – Ports
& Maritime at Cardno now
Stantec Brisbane.



NEIL LAWSON
Position: Treasurer and Honorary
Vice President of PIANC
International
Managing Director at Neil Lawson
and Associates Pty Ltd



JACKIE SPITERI
Position: Board Member
Managing Director at
Sustainable ESG



CLAIRE TREEBY
Position: Board Member
& YP Com A&NZ Chair
Ports and Terminals Lead,
Western Region, Hatch

WELCOME AND FAREWELL

In 2022 we warmly welcomed three new members to the PIANC A&NZ Board and sadly farewelled two colleagues.

WELCOME

WILLIAM BLANK is the Associate Director – Development at Hall Contracting, Queensland, and is Vice President of the Australia Pacific Islands Business Council. Will is a keen proponent of sustainable development and infrastructure. In recent years increased engagement with the Pacific Islands has given him a better understanding of the challenges these communities face with our changing climate.

RHYS JONES joins the Board as the second representative from Engineers Australia's NCCOE (National Committee on Coastal and Ocean Engineering). He is a Chartered Professional Engineer with experience in a range of port operations, asset management and construction roles in Western Australia and the Northern Territory, and is currently General Manager – Engineering at Darwin Port.

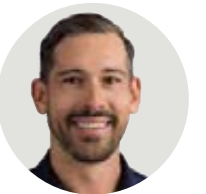
CLAIRE TREEBY is Chair of the Young Professionals Commission A&NZ, Chair of the WA regional chapter and has been the driving force behind the successful YP Leadership Breakfasts held around the regions, in student/industry link-ups, and in PIANC's hosting or co-hosting Women in Maritime events. Claire is the Ports and Terminals Lead, Western Region for engineering consultancy Hatch.

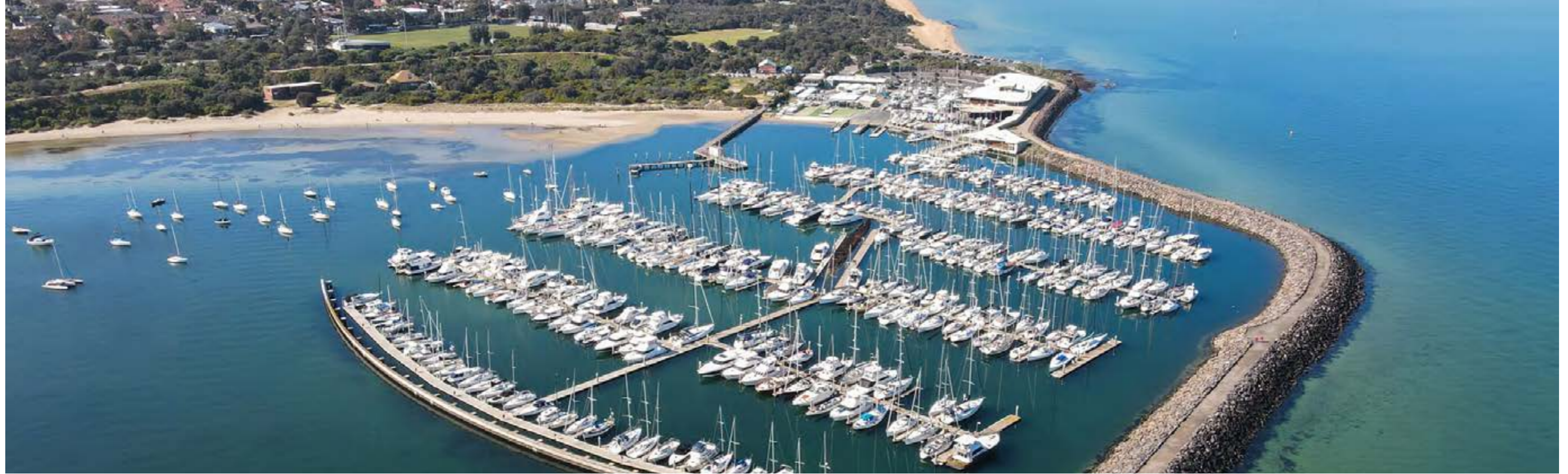
FAREWELL

In 2022 NCCOE representative and Treasurer **KATRINA DODD** stepped down after four years on the Board. During that time Katrina oversaw the implementation of the new online membership management software system Membership Works which automated our membership joining, reminder and payment processes. She was also engaged in both detailed and strategic Treasury work – including research on investment management, streamlining our contractor payment processes, and income forecasting for the affordability of an EO.

KEVIN KANE also served on the PIANC A&NZ Board for four years and was inaugural Chair of the Queensland/Northern Territory Regional Chapter. He nurtured the chapter in its early days – coordinating great technical events for members and community – and it is now flourishing! Kevin was also Co- Chair of PIANC EnviCom Working Group 175 'Practical Guideline for Environmental Risk Management of Navigational Infrastructure Projects' which published its Report in 2019.

Our warm thanks to both Katrina and Kevin for all their service! We wish them all the very best in their new endeavours.





PIANC A&NZ TECHNICAL COMMISSION LEADERS



FinCom & ProCom
**PIANC INTERNATIONAL
FINANCIAL & PROMOTION
COMMISSIONS**
NEIL LAWSON
Board Member PIANC A&NZ
Neil Lawson & Associates P/L



EnviCom
**ENVIRONMENTAL
COMMISSION**
MARIKA CALFAS
Chief Executive Officer
at NSW Ports



RecCom
**RECREATIONAL NAVIGATION
COMMISSION**
GREG BRITTON
Board Member PIANC A&NZ,
& Technical Director of Royal
HaskoningDHV in Australia.



MarCom
**MARITIME NAVIGATION
COMMISSION**
SCOTT KEANE
Board Member PIANC A&NZ
Industry Director - Ports &
Maritime at Cardno (now Stantec)



CoCom & PTGCC
**INTERNATIONAL CO-OPERATION
COMMISSION & PERMANENT TASK
GROUP ON CLIMATE CHANGE**
RON COX
Board Member PIANC A&NZ
Water Research Laboratory,
UNSW Civil & Environmental
Engineering.

YOUNG PROFESSIONALS



CLAIRE TREEBY
YP-Com A&NZ Chair



RODNEY HANCOCK
Vice-Chair of YP
Com Asia Pacific Region

AUSTRALIA & NEW ZEALAND NATIONAL YP-COM REPRESENTATIVES

PIANC's Young Professionals Commission (YPCom) is dedicated to the career development of YP members (40 years of age and younger) locally, nationally and globally.

As one of the most active groups worldwide, PIANC A&NZ YPs hold networking events across Australia, nominate Australian YP's for Working Groups, liaise with YPCom International, bestow annual awards, and work with regional chapters and the PIANC A&NZ Board on related activities.

To find out more and get involved, please visit our website:
<https://pianc.org.au/about/young-professionals/>
or join our LinkedIn: <https://www.linkedin.com/groups/5078998/>

REGIONAL

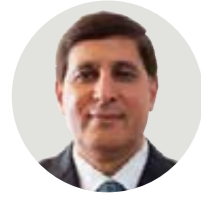
CHAPTERS



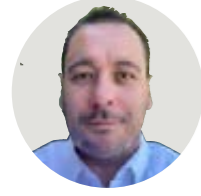
**NSW/ACT REGIONAL
CHAPTER CHAIR**
CATHERINE BLAINE



**NEW ZEALAND
CHAPTER CONTACT**
MICHEL DE VOS



**QLD/NT REGIONAL
CHAPTER CHAIR**
DR SAM MAZAHERI



**SA REGIONAL
CHAPTER CHAIR**
PAUL CONSTANCE



**VIC REGIONAL
CHAPTER CHAIR**
LAURENCE BENN



**TAS REGIONAL
CHAPTER CHAIR**
NEIL LAWSON



**WA REGIONAL
CHAPTER CHAIR**
CLAIRE TREEBY

In 2022 our amazing Regional Chapters organised 18 technical and networking events in person, online, or as hybrid. Our congratulations and thanks to all involved.

Each Regional Chapter has an independent leadership committee, including a YP representative, with responsibility to manage its own regional events and communications while also reporting to, and liaising with, the PIANC A&NZ Board.

REGIONAL

CHAPTERS YP REPRESENTATIVES



**NSW/ACT REGIONAL
YP REP**
SHANE FREEMAN



**SA REGIONAL
YP REP**
UDDISH SINGH



**NEW ZEALAND
YP REPS**
WILL INGLE



**VIC REGIONAL
YP REPS**
MARK BENNET



CHIP POHLEN



**TAS REGIONAL
YP REPS**
TOBIAS ALDRIDGE



**QLD REGIONAL
YP REPS**
TOM BISHTON QLD



**WA REGIONAL
YP REP**
MICHAEL FISHER



**NT REGIONAL
YP REPS**
HARRY GIBBS NT

AROUND THE REGIONS

FIRST STUDENT/INDUSTRY NETWORKING EVENT

In 2022 our regional chapters organised 18 events, including technical, networking, professional development and student/industry events.



It was a year of collaboration – many of these events were co-organised with other organisations including Engineers Australia, Ports Australia, the Society for Underwater Technology/ Young Engineers & Scientists (SUT YES!), and the Women's International Shipping & Trading Association (WISTA). Events were also supported by PIANC corporate members – including consultants, government departments, ports, and universities. Our thanks to all of them.

Our very first student/industry networking event was organised by the indefatigable WA Chapter in August. The event, which was supported by 18 PIANC A&NZ corporate members, invited students at Perth universities to connect with the ports and marine industry.

MEMBER NETWORKING EVENTS

Member networking events were held in Darwin, Launceston, Newcastle, Perth and Sydney, and inspiring YP leadership breakfasts were held in Brisbane, Newcastle, and Perth.

YP leadership speakers included

- Tom Bishton – Beca and Lana Van Wyk – Hatch, (Brisbane),
- Jackie Spiteri – Sustainable ESG and Nick Lewis – Royal Haskoning DHV (Newcastle),
- Sue Murphy, AO – Monadelphous, MMA Offshore. (Perth)



REGIONAL TECHNICAL EVENTS

Regional technical events looked at.

- Queensland's Port of Mackay development infrastructure,
- Melbourne's Australia's first artificial surf park URBNSurf,
- VTS facilities at Fremantle Ports,
- exciting developments in offshore wind, and
- the challenges and opportunities facing WA ports and the transport sector in our transition to net zero emissions.

Technical expert speakers at these events included:

- Tim Lewis and Anoop Pillai – NQBP, Jasvinder Pantlia – Arup, and Harvinder Singh – Jacobs. (Port of Mackay Infrastructure Development);
- Mike Spiers – Boskalis and Dr Jana Orszaghova – UWA (Offshore wind developments)
- Steve Beyer – WA Department of Transport, Michael Parker, – Fremantle Ports and Neil Canby – Sunrise Energy Group. (Net Zero Emissions Transition).

We continued our collaboration with other organisations in our ports and maritime community by Board participation (Ron Cox and Jackie Spiteri) in a GreenPort Oceania pre-2023 Conference webinar in November 2022, where a panel of experts discussed the risks of climate change within the port sector in relation to mainstream ports and low-lying Pacific Island Nations.

PIANC YP INTERNATIONAL VIRTUAL EVENT 2022



This was a 2-day online event held 6-7 December with technical presentations from all PIANC regions. PIANC A&NZ contributors included event co-organiser **Zay Yar Min Zin**, and presenter Nathaniel Buldo who presented on "*Solutions to Assessing and Strengthening Aged Timber Marine Infrastructure*".

PIANC A&NZ & UNSDGs

MAKING GOOD PROGRESS

In 2021 PIANC A&NZ committed to aligning with the United Nations Sustainable Development Goals (UNSDGs).

Through a materiality assessment process in 2021 and 2022 led by Board Member Jackie Spiteri where we engaged directly with our members, PIANC A&NZ identified eight of the 17 UN SDG's as being directly relevant to PIANC ANZ and four of those have been further prioritised where our organisation can make the greatest impact. These are SDG4 – Quality Education, SDG9 – Industry Innovation and Infrastructure, SDG 13 – Climate Change, and SDG 17 – Partnerships for the Goals. The other four identified Goals are SDG 5 – Gender Equality, SDG 10 – Reduced Inequalities, SDG 14 – Life Below Water and SDG 15 – Life on Land.



JACKIE SPITERI

PIANC ANZ SUSTAINABILITY STRATEGY

With these prioritised SDGs in mind, our PIANC ANZ Sustainability Strategy focuses on four key themes: Resilience (SDGs 9 & 13), Education (SDG4), Inclusion & Diversity (SDGs 5 & 10), Governance & Communications(SDG 17).

RESILIENCE

For resilience we have committed to building capacity within our network through the development of technical events and papers focused on key sustainability issues. We have also committed to managing our own operations to minimise our environmental footprint.

In line with PIANC ANZ's commitments to increase both capacity and resilience within the sector, we set a target in 2022 to provide at least one event that was focused on sustainability.

During 2022 we provided three dedicated sustainability events:

- PIANC WA seminar – Net Zero Emissions Transition – The New Big Picture. 20th July
- PIANC SA/WA hybrid webinar: Climate Change and Related Issues Impacting Navigation and Ports; 28th July
- PIANC International webinar: Blue Carbon Markets – Opportunities for Waterborne Transport Infrastructure – Presentation by Will Glamore. 1st December 2022

PIANC A&NZ also hosted the PIANC APAC 2022 Conference, held in Melbourne where many of the presentations covered key sustainability issues including climate change resilience, beneficial reuse of dredged material, digitisation, sustainable port operations to name a few.



For this event PIANC A&NZ partnered with Greenfleet, an Australian not-for-profit environmental organisation, to offset the carbon emissions arising from attendance at the event, through native reforestation, making APAC2022 our first quantifiable carbon neutral event! The total amount of CO2 offset at APAC2022 as a result of the initiative was 39.82 tonnes.

EDUCATION

In line with the theme of Education, PIANC ANZ continued to provide the PIANC A&NZ Mentoring Program. During 2022 we had 32 mentors and mentees (16 pairs) participate in the program, an increase from 24 in 2021, and 18 in 2020.

We are committed to engaging with our universities to support our future generations, equipping them with the knowledge and the networks to be successful. During 2022 our free student membership increased significantly with students now representing 16.2% of our membership.

INCLUSION & DIVERSITY

Diversity in our network promotes diversity of thought. The PIANC A&NZ Board has 12.5% representation of women and a diverse range of age representation. 28% of our Regional Chapter Chairs are female.

We featured inspiring women speakers in all our YP leadership breakfasts in 2022, as well as celebrating the inaugural International Day for Women in Maritime with PIANC, WISTA and WA Transport – Maritime on 18 May, where our panel of speakers Kathryn Davies, Nicole Lockwood and Carol Shannon shared their stories, experiences, and words of motivation from their successful careers as women in maritime. The establishment of this annual event highlights the participation of women in maritime as a key priority for the global maritime sector.

In 2023 we will work towards greater female representation as presenters and participants in our Conferences.

Panellists and Organisers of PIANC/ WISTA International Day for Women in Maritime, Fremantle May 2022

L-R Carol Shannon, Ella Cahtarevic, Claire Treeby, Kerry Woonings, Kendall Messer, Jessica Stojkovski MLA, Nancy Haddaden, Nicole Lockwood, Kathryn Davies.

For our individuals and students combined we saw 33.3% representation of women: for students alone the gender split was 50/50.

RECONCILIATION

For cultural diversity and inclusion, PIANC A&NZ have committed to preparing a cultural plan that will reflect our members. The plan will include reconciliation action in line with the Reflect Reconciliation Australia Action Plan framework. Based around the core pillars of relationships, respect and opportunities, RAPs provide tangible and substantive benefits for Aboriginal and Torres Strait Islander peoples, increasing economic equity and supporting First Nations self-determination.

MEASURING DIVERSITY

At PIANC ANZ we are committed to understanding our members through measuring key diversity metrics. In 2022 we updated our membership platform to start capturing data on gender and cultural background so that we can better measure our performance.

During 2022 we welcomed 42 new members including corporates, individuals and students. For our individuals and students combined we saw 33.3% representation of women: for students alone the gender split was 50/50.

GOVERNANCE & COMMUNICATIONS

We have commenced the development of a PIANC ANZ Diversity Policy and look forward to sharing this with our members in 2023.

For our communications in 2023 we will continue to provide and promote events that consider sustainability, update our website to include a dedicated section for sustainability and include information within our newsletters in current sustainability trends that are relevant to the sector.



MENTORING

PROGRAM



PETER ENGELEN

Initiated in 2020, and coordinated by Board Member Peter Engelen, the PIANC A&NZ Mentoring Program aims to provide members with an opportunity of giving back to their industry through sharing professional experiences and life lessons, as well as for other members to gain guidance and advice in progressing their professional career.

Recognising that many of our members have valued and varied experiences, the mentor/mentee relation can be, but is not necessarily, senior-junior in nature and instead can be one of peers across industries or across disciplines.

In 2022 our participants represented a varied cross section of members including junior and senior staff of port authorities, port managers, consultants, contractors and academia.

For more information contact: support@pianc.org.au

32 PARTICIPANTS FROM 22 PROMINENT ORGANISATIONS



2022 PIANC A&NZ MENTORING PROGRAM

PARTICIPANTS

MENTORS

Catherine Blaine, Port Authority NSW
 Greg Britton, Royal HaskoningDHV Australia
 Andrew Catto, Hatch
 David Dack, ARUP
 Katrina Dodd, McConnell Dowell
 Peter Engelen, NSW Ports
 Jack Kerklaan, Akuna Dredging Solutions
 Neil Lawson, Consultant
 Sam Mazahri, Dalrymple Bay Coal Terminal Pty Ltd
 Richard Mocke, WGA
 Wim van der Molen, Baird
 Simon Brandi Mortensen, DHI
 Ravi Segu, Hatch
 Kristen Splinter, UNSW Water Research Laboratory
 Matthew Turner, OMC International
 Carsten Varming, NSW Ports

MENTEES

Jarryd Barnes, BMT
 Meg Batchelor, OMC International
 Nathaniel Buldo, Hatch
 Ralph Daniels, Queensland Government Hydraulics Laboratory
 Rohan Hegarty, SMEC Australia
 Ashleigh Hyland, WSP Australia
 Reza Javanmardi, OMC International
 Oliver Li, ARUP
 Shannen Masia, Port of Newcastle
 Ray McCarthy, KBR
 Mahtab Moalemi, GHD
 Kane Nielsen, Queensland Government Hydraulics Laboratory
 Renan Fonseca da Silva, University of Western Australia
 Toby Tucker, UNSW Water Research Laboratory
 Robin Wang, Aurecon
 Zay Zin, Hatch

COMMUNICATIONS

REPORT



In 2022 PIANC A&NZ continued to engage with a growing membership and connected community, informing them of local and global events, Working Group opportunities and publications, achievements and awards.

We do this through our website, <https://pianc.org.au>, LinkedIn account, e-newsletters to our members and community, and direct emails to members only.

In 2022 our Mailchimp audience grew from 1,670 contacts in January to 1,994 by December 2022.

Our PIANC A&NZ You Tube Channel (@pianc_anz) which was established in 2020, now hosts nine technical webinars and five 3-minute information videos. These had 2,756 views by the end of 2022.

As well as being located on YouTube and our website, PIANC A&NZ short information videos are shared through LinkedIn – these have had over 2,200 views.

Four short videos were produced in 2022 in collaboration with CadeDigital, providing information on Young Professionals, the PIANC A&NZ Mentoring Program, a look at the APAC2022 Conference, and insight into PIANC Working Groups.

LinkedIn remains an effective tool for PIANC A&NZ events, information and stories. From 1100 in January we had 1750 followers by December 2022.

MEMBERSHIP

REPORT

2022 saw continued growth in PIANC A&NZ membership, both individuals (163) and corporate (88). This increase has been achieved against the background of some of the most challenging years in recent history.

By December 2022 PIANC A&NZ had 251 members, which includes 45 student members.

Our new free student member category offers reduced fees for conferences and events but without access to working group reports. Recruiting a stronger student cohort (from 3 in 2020 to 45 in 2022), augurs well for future participation, and has increased the profile of PIANC in the tertiary sector.

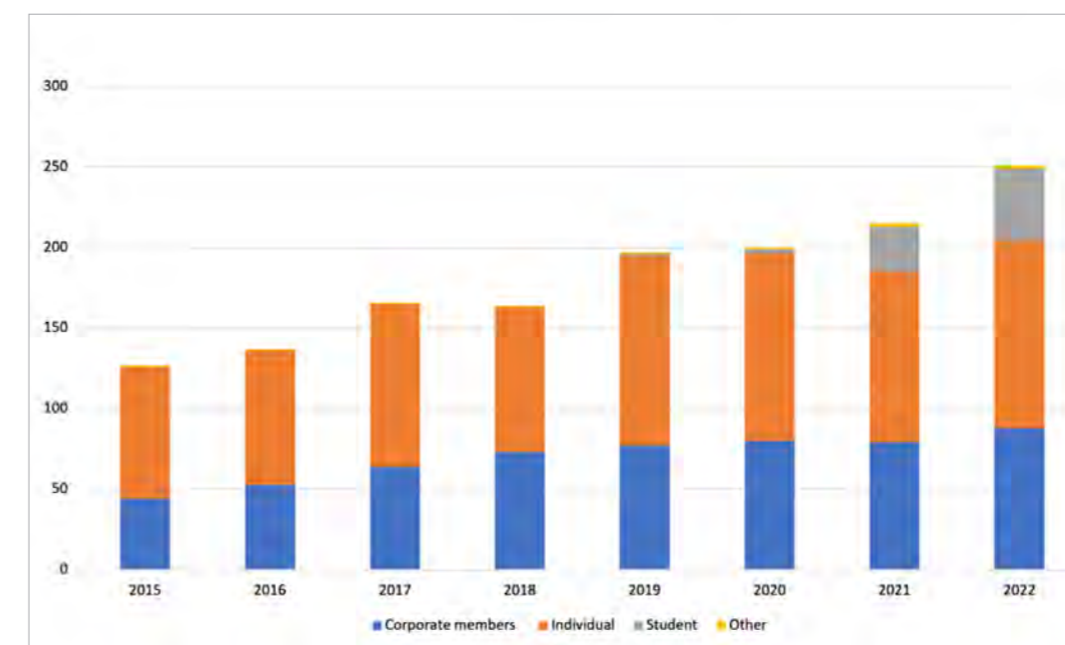
Raising the level of corporate membership remains our ideal means to provide increased engagement with our communities and is a key focus of PIANC A&NZ moving forward.

PIANC A&NZ has strong representation from NSW, WA, VIC and QLD.

There is ample scope to increase our membership within ACT, NT, SA, TAS and New Zealand, and among the Pacific Island Nations.

“
Our new free student member category offers reduced fees for conferences and events but without access to working group reports.”

PIANC A&NZ MEMBERSHIP GROWTH 2015-2022





STRATEGIC

PLAN

The Board of PIANC Australia & New Zealand has articulated its purpose statement and overarching goal in the 2022 Strategic Plan.

Available at <https://pianc.org.au/about/our-profile/>

The Board is working hard towards delivering on our set targets.

WHAT IS MOST IMPORTANT FOR PIANC AUSTRALIA & NEW ZEALAND, RIGHT NOW?

OUR OVERARCHING GOAL FOR 2022

The single focus shared by the board of PIANC Australia & New Zealand that we must accomplish by end of 2022.

To evolve PIANC ANZ to enhance the delivery of value for our members

SUPPORTING OBJECTIVES FOR 2022

The following objectives are the key components that will support achievement of our overarching goal for 2022

- | | |
|----------------------------|---|
| 1. Transformation planning | 3. Well established/empowered Regional Chapters |
| 2. Successful major events | 4. Membership services |

OBJECTIVES AND OUTCOMES

SUPPORTING OBJECTIVES: key components that support the overarching goal

- Transformation planning (plan and initiate major step changes)
- Run successful major events
- Well established and empowered Regional Chapters
- Deliver the next evolution of our membership services

CONFERENCES



THE AUSTRALASIAN COASTS & PORTS 2021/22 CONFERENCE

Te Oranga Takutai | Adapt and Thrive, was due to be held 7-10 September 2021 at Te Pae, the Christchurch Convention Centre.

As a result of the ongoing challenges in relation to the COVID-19 pandemic, the conference was first delayed and planned as a hybrid event, and then transitioned to a fully virtual event held online 11-13 April 2022. While this was a difficult decision for the LOC and disappointing not to be able to gather in person, this adaptation ultimately enabled the conference to proceed and thrive.

The virtual Conference was a huge success. The conference included over 160 authors presenting their papers, six keynote speakers of international standing, panels sessions on adaptation and indigenous perspectives, and four special sessions on important and relevant coastal challenges.

A particular highlight, and an advantage of the virtual format, was the ability to nimbly accommodate a special session on the Hunga Tonga-Hunga Ha'apai eruption and tsunami, including speakers live from the Kingdom of Tonga. The conference provided opportunities for networking amongst attendees, virtual exhibition space, virtual field trips and after-hours, panel-based young professionals and women in coastal geoscience and engineering events.

Australasian Coasts & Ports conference papers remain a highly relevant and useful resource for the Australasian coastal community and have been provided, open access and on the new perpetual website for the first time, via <https://www.coastsandports.org/>.



APAC 2022

PIANC's second Asia Pacific regional conference was held in Melbourne 4-7 September 2022, reuniting many in our community in person for the first time since the lockdowns and border closures of 2020 & 2021. A brief video gives some idea of the enthusiasm.

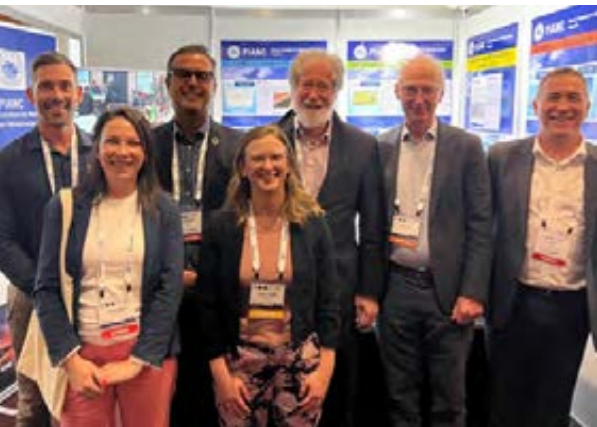
The conference theme was "Leaders and Professionals Coming Together", reflecting PIANC's mission to bring together ports, harbour and recreational boating professionals and ideas to an international forum, and to provide opportunities for our members to become leaders in the industry. 186 people attended, coming from Victoria, Queensland, NSW, WA, SA, Tasmania, NT, New Zealand, PNG, Fiji, Japan, Malaysia and Vietnam.

After a Welcome to Country from Wurundjeri Woi Wurrung Cultural Heritage Aboriginal Corporation, the conference was opened by The Hon. Melissa Horne MP, Victorian Minister for Ports and Freight, with keynote addresses from Nick Ellul, General Manager Maritime / Harbour Master, Port of Geelong, and Professor William Glamore, Past Chair, PIANC A&NZ.

There were two technical tours, (Port of Melbourne boat tour and a tour of the Sealite facility on the Mornington Peninsula), three very popular social events, and 73 Conference presentations under the organising themes of

- Climate change impacts and adaptation,
- Coastal processes and risk implications,
- Dredging and reclamation,

PIANC APAC2022
Technical Tour - Port
of Melbourne



PIANC Board Members at APAC2022 Conference
L-R William Blank, Jackie Spiteri, Will Glamore, Claire Treeby, Ron Cox, Neil Lawson, Scott Keane
(Absent from Image: Luke Campbell)

- Navigation,
- Pacific island ports,
- Ports and marine facilities – design and construction,
- Ports design and planning,
- Port operations and management,
- Sustainability and stakeholder engagement,
- Working with nature – environment and ecosystem services.

The event was fully carbon offset (excluding attendees travel to/from).

Chair of the LOC, Laurence Benn reported that the input from PIANC A&NZ Board Members was key to its success. It would have been impossible to deliver without that support. Special mention must be made of Neil Lawson and Ron Cox, who committed many hours of effort and expertise.

PORTS AUSTRALIA AND PIANC A&NZ NORTHERN CHAPTER



Ports Australia and PIANC A&NZ Northern Chapter held a very successful joint three-day event in Darwin from 17 – 19 October 2022. The Engineering & Asset Management Working Group provided a platform for port and waterfront infrastructure leaders and professionals to come together in this strategic region.

Darwin plays a key role in building capacity for Northern Australia’s economic expansion, supporting the growth of numerous export industry sectors through the strategic development of waterborne infrastructure and services.

The Working Group provided a great opportunity for port professionals to exchange the latest knowledge, share experiences and lessons learnt, while considering the current and future development of the maritime infrastructure in this strategic region.

The program contained a social networking dinner, Darwin port tour and presentations related to following topics:

- Updates on standards and guidelines
- Port infrastructure projects and challenges
- Asset management
- Smart Port / Digitisation

AWARDS

DE PAEPE WILLEMS WINNER



Vice-President of PIANC International Valérie Chabrier presented the jury report and first prize to Libby Freeman, at PIANC’s 2022 AGA held in Belgium, June 2022.

PIANC A&NZ Member and senior coastal engineer at Advisian, Libby Freeman won the internationally prestigious de Paepe-Willems Award in 2022 for her paper on ‘Dynamic Motions of Piled Floating Pontoon and Their Impact on Postural Stability’.

Libby’s postgraduate studies at UNSW’s Water Research Laboratory investigated how the dynamic motions of floating pontoons impact on a standing person’s stability. She developed a set of safe motion limit criteria, acceleration and rotation limits, in order to guide engineers to design better more stable pontoons and investigated how the pontoon dimensions (beam/draft) influence motion response. Her research also examined how pontoon beam and draft affect wave attenuation performance.

Libby is only the third person from our region to win the de Paepe-Willems award which began in 1985. Previous A&NZ winners are Benjamin Popovic (New Zealand) for his 2020 paper on ‘Tsunami Resilience of Pile-Supported Wharves: A First Principles Approach’, and William Glamore (Australia) in 2008 for his work, ‘A Decision Support Tool for Assessing the Impact of Boat Wake Waves on Inland Waterways’.

FIVE MAJOR PIANC AWARDS PRESENTED AT THE APAC 2022 CONFERENCE, MELBOURNE SEPTEMBER 2022

PIANC APAC 2022 AUTHOR AWARD

Awarded to **Jordan Butler** a Senior Maritime/Structural engineer working for WGA in Perth, for his outstanding paper and presentation on ‘Breaking point: Understanding the dynamics of parted mooring lines and protection barriers.’

PIANC APAC 2022 CONTRIBUTION AWARD

Congratulations to 2022 winner **Tom Shand**, who co-chaired the most recent Coast & Ports conference in Christchurch, NZ. Tom had previously been busy on the LOCs for Coasts & Ports 2013, 2105 and 2017! Tom also served as YP Com Vice-Chair of the Asia Pacific region from 2018 – 2020. His leadership in the region included some very special events such as the 3rd PIANC YP-Com Asia-Pacific Seminar in Korea in 2018, and the BTV in Singapore in 2019.



PIANC APAC2022 Award Winners L-R: Ron Cox, Edward Rowe, Tom Shand, Jordan Butler. Not in Image: Marika Calfas

PIANC APAC 2022 YOUNG AUTHOR AWARD

Awarded to **Edward Rowe**, a senior engineer at Arup, for his winning paper 'Beyond the Roadmap: Approaching environmental sustainability challenge in Pacific Island ports.'



PIANC APAC 2022 PROGRESS AWARD

This award, chosen by the PIANC A&NZ Board, is presented to someone who has increased the positive influence of Waterborne Transport Infrastructure through initiatives relating to equality, diversity and using their work to improve the lives of others.

In 2022 the award was given to **Marika Calfas**, PIANC A&NZ representative on EnviCom, and CEO of NSW Ports, which is responsible for managing Port Botany, Port Kembla and the intermodal terminals at Cooks River and Enfield.



PIANC APAC 2022 LIFETIME ACHIEVEMENT AWARD



For outstanding involvement and contribution to the Waterborne Transport Infrastructure industry.

Congratulations to **Ron Cox**, longstanding PIANC A&NZ Board Member – who has also concurrently represented PIANC on Engineers Australia National Committee on Coastal and Ocean Engineering (NCCOE).

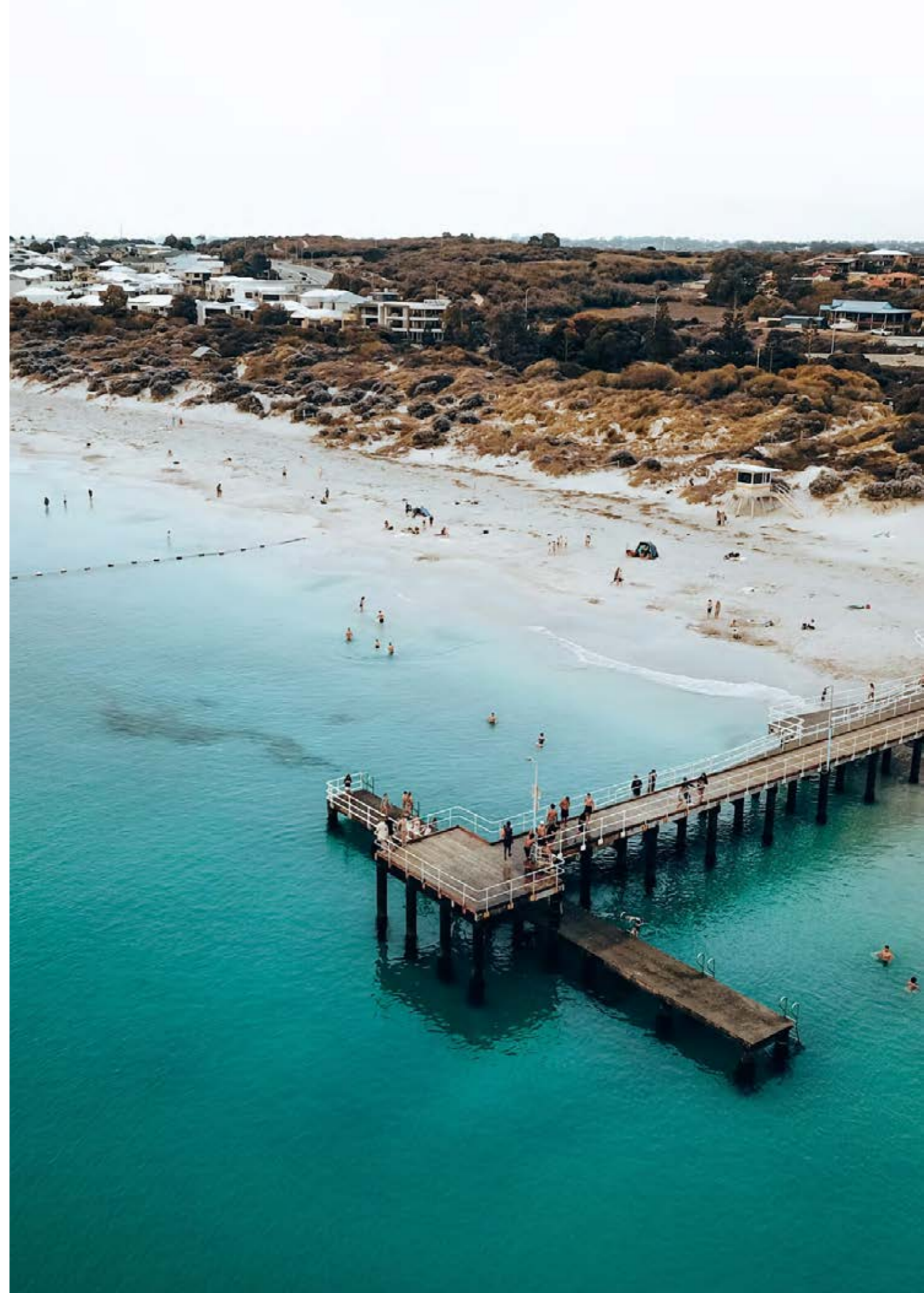
Ron has generously brought his more than 40 years of professional, academic and organisational experience in coastal, ocean and environmental engineering to his work as a PIANC A&NZ Board member, as a member of PIANC's Permanent Task Group of Climate Change (PTGCC), the Environmental Commission (EnviCom) and of Co-Com – PIANC's International Co-operation Commission.

He has been and is a very active supporter/organiser of PIANC A&NZ conferences and workshops, and an effective liaison person between PIANC and other professional organisations and institutions. In other words, he is a PIANC Living Treasure!

COASTS AND PORTS YOUNG AUTHOR'S AWARD

Mark Bennet, PIANC Victoria YP representative and Consulting engineer at OMC International, was awarded the Young Author's Award at the Australasian Coasts&Ports2021 Conference for his paper, authored with Giles Lesser, on 'A Methodology to Design a Rational Static Underkeel Clearance (UKC) Rule for Dredging and Port Operations.'

This paper describes a methodology developed using state-of-the-art modelling to design a rational static UKC rule for a port with implications for navigation, scheduling, accessibility, and dredging clearly defined. It is downloadable from the Coasts&Ports website. https://www.coastsandports.org/papers/2021/111_bennet_finalpaper.pdf



WORKING GROUP REPORTS

PUBLISHED IN 2022

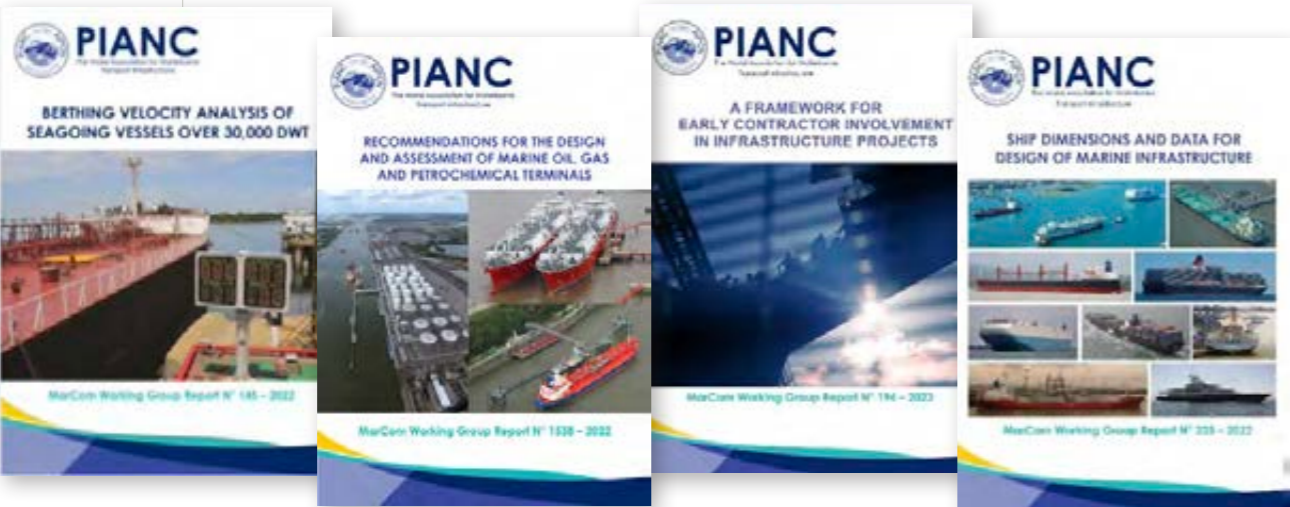
At the core of PIANC's global mission is the publication of high-quality Technical Reports by international Working Groups.

PIANC Working Groups are composed of participants from multiple member countries who have expertise in the issue being investigated. The groups gather, analyse, and consolidate international, state-of-the-art, best practice material to provide evidence-based guidance.

The reports prepared by these Working Groups are the core business of our Association and a highly respected resource for governments, companies, and industry associations around the world.

IN 2022 THE FOLLOWING PIANC INTERNATIONAL WG REPORTS WERE PUBLISHED.

- MarCom WG 145:** Berthing velocity analysis of seagoing vessels over 30,000 dwt (published April 2022)
- MarCom WG 153B:** *'Recommendations for the Design and Assessment of Marine Oil, Gas and Petrochemical Terminals.'* (Oct 2022) PIANC A&NZ participant - Rodney Hancock.
- MarCom WG 194:** *'A Framework for Early Contractor Involvement in Infrastructure Projects'* (August 2022): PIANC A&NZ participant -David Kinlan
- MarCom WG 235:** *'Ship Dimensions and Data for Design of Marine Infrastructure'* (Dec 2022)



PIANC Permanent Task Group on Climate Change (PTGCC) Technical Note 1: Managing Climate Change Uncertainties in Selecting, Designing and Evaluating Options for Resilient Navigation Infrastructure (April 2022) Free Download at <https://www.pianc.org/publications/envicom/ptgcc-1>

Reports can be downloaded from <https://www.pianc.org/publications>

ABOUT MARCOM WG153B

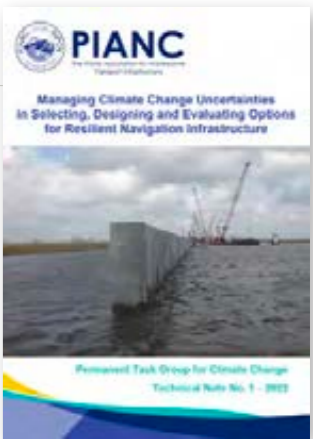
In September 2016, PIANC published WG153 'Recommendations for the Design and Assessment of Marine Oil & Petrochemical Terminals'. WG153B (2022) now adds LNG terminals to the scope of the document, including Gas to the title, and making other updates as well.

Marine Oil, Gas, and Petrochemical Terminals (MOGPTs), by the nature of materials being handled, may pose risks to the marine and coastal environment, as well as affect health and safety. Risks include spills, damage to marine life, toxic fumes or vapour clouds, and the possibility of fires and/or explosions. Risks can be exacerbated by aging infrastructure and components, as well as inadequate design for the current operations at the terminal.

WG153B (2022) provides a set of best practice guidelines and recommendations for the design and assessment of MOGPTs to the global community.

The guidelines are applicable to at-shore and nearshore MOGPTs. Quays (wharves), jetties (piers), sea islands, and nearshore single-point and multi-point moorings are covered in this document. Terminals and marine facilities for the following are included: Oil terminals, Petrochemical terminals, Liquefied natural gas (LNG) terminals, Liquefied petroleum gas (LPG) terminals, Floating LNG terminals (FSRU/FSU/FRU/FPSO LNG), Liquefied green fuels terminals, Liquefied CO₂ terminals and Compressed natural gas (CNG) terminals.

Rodney Hancock, a technical director at Haskoning Australia, was the PIANC A&NZ YP representative on this report.



RODNEY HANCOCK



DAVID KINLAN

ABOUT MARCOM WG194

MarCom WG194 'A Framework for Early Contractor Involvement in Infrastructure Projects' provides a detailed (183 pages) introduction into the understanding and the application of Early Contractor Involvement (ECI) in waterborne transport infrastructure projects (WTI), and is the only comprehensive guidance document available on the subject of ECI in the construction industry.

Congratulations to all involved, particularly our A&NZ participant David Kinlan, a marine Contracts Manager with substantial experience in the global maritime and civil engineering industry.

ABOUT WG194 AND ECI:

It is increasingly acknowledged that the potential for WTI project cost blowouts, coupled with the progressively complex nature of planning, can negatively affect both the procurement and execution processes for many projects.

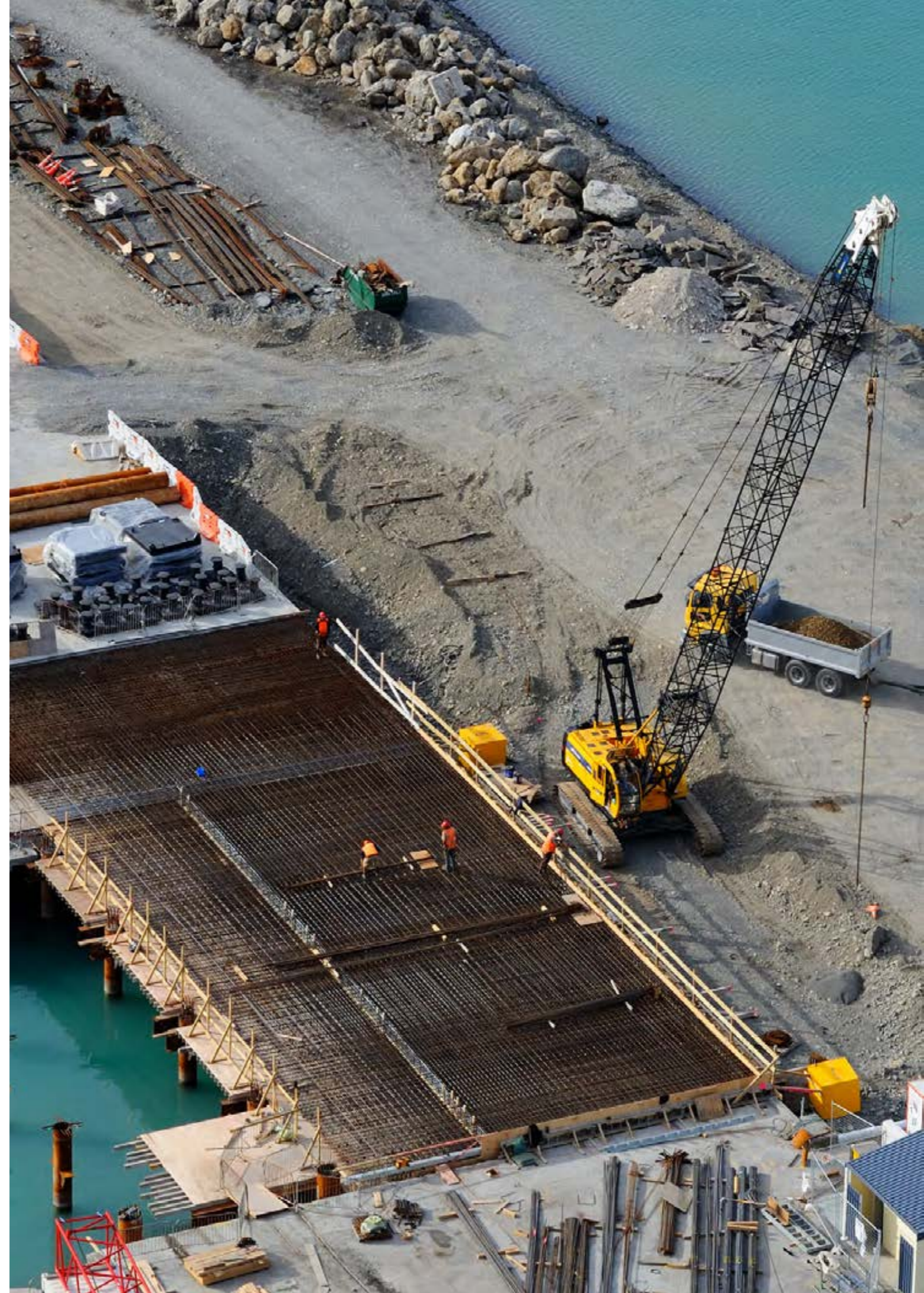
Early Contractor Involvement (ECI) is a strategy initiated by infrastructure owners (clients) towards main contractors and optionally expanded to consultants, stakeholders and subcontractors.

The purpose of ECI is to optimise values in project delivery and objectives, through their participation and knowledge sharing in earlier stages of project planning and design prior to project execution.

For David, working on the report was an opportunity to collaborate with a large group of industry practitioners as co-authors from client, consultant and contractor backgrounds who successfully pooled their knowledge and experience.

There are a number of maritime projects in A&NZ that have implemented ECI in one form or another in recent years and with the publication of PIANC's WG194 the number will hopefully increase in the years ahead.

David has now set up Inframara, an international consultancy specifically focussed on developing ECI projects.



TECHNICAL
WEBINARS

2022 saw the continuation of our online technical outreach with two recorded webinars given by PIANC A&NZ experts. Both are still viewable now via the PIANC A&NZ website – Resources. <https://pianc.org.au/resources>

A hybrid SA webinar in July on ‘Climate Change – long term impacts on ports & navigation’ was presented by PIANC Permanent Task Group on Climate Change (PTGCC) and A&NZ Board member **Hon A/Prof Ron Cox**.

Ron delivered a state-of-the-art seminar on global weather patterns, sea-level changes and the storms of the future, and presented the latest in climate change science impacting the navigation and ports sector as well as addressing the issues of mitigation, risk and adaptation.



In December PIANC’s Permanent Task Group on Climate Change held an international webinar featuring PIANC A&NZ’s **Prof Will Glamore**, who presented on ‘A Market Approach to Blue Carbon and Opportunities for Waterborne Transport Infrastructure.’

Sediments are an integral part of aquatic systems, the building block for natural habitats and an inherent component of many ecosystem services. Sediments and their associated aquatic habitats – blue carbon stocks – also play a vital role in sequestering and storing carbon.

Blue carbon markets offer a promising opportunity to capture and store CO2 emissions within Australia, Europe, the United States and worldwide, particularly within the international water transportation sector.

Following the presentation, and after a question-and-answer session, Dr Glamore was joined by two other international experts: **Michelle Orr** (USA) and **Professor Nigel Pontee** (UK).



CORPORATE

MEMBERS OF PIANC A&NZ 2022

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AECOM Australia	Haskoning Australia	Port Taranaki
Australian Maritime College Search	Hatch	Port of Townsville
Arup	Heb Construction NZ	Ports Victoria
Aspec Engineering	Heron Construction Company	Rio Tinto
Aurecon Australasia	Hydrobiology WA	ROVing Intelligence Pty Ltd
Australian Maritime Systems	Jacobs Group (Australia)	Royal Australian Navy
Baird Australia	JJ Ryan	RPS
BCI Minerals	KBR	Salix
Beca	Manly Hydraulics Laboratory	Sealite
BESIX Watpac	Marine Loading Australia (Ship & Shore)	Ship & Shore (Marine Loading Australia)
BMT Commercial Australia	Maritime Constructions	SMEC Australia
Boskalis Australia	McConnell Dowell	Southern Divers
Burbury Consulting	Meteorological Service of New Zealand	Southern Ports Authority
Cardno	Mid West Ports Authority	SubCon
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Dalrymple Bay Coal Terminal	Newcastle Coal Infrastructure Group	Thomas Miller (Australasia)
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Department of Transport and Main Roads – Maritime Safety Queensland	NSW Ports	Maritime Infrastructure Delivery Office, Transport for NSW
DHI Water & Environment	OMC International	Trelleborg Marine Systems
Dulux Protective Coatings	Pilbara Ports Authority	UNSW – Water Research Laboratory
Eastland Port Limited	Port Authority of NSW	Wallbridge Gilbert and Aztec (WGA)
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Fortescue Future Industries	Ports of Auckland	WA Department of Transport, Westport Office
Fremantle Ports	Port of Brisbane	Woodside Energy
Frontier Automation	Port of Hastings	WSP NZ
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Gladstone Ports Corporation	Port of Nelson	
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