NATIONAL SECTIONS & QUALIFYING MEMBERS
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1 PIANC ARGENTINA IN 2019

1.1 Authorities and Commission Members

- First Delegate: Raúl S. Escalante
- Secretary: Sebastián García
- RecCom: Esteban Biondi (Chair) & Claudio Fassardi
- MarCom: Carlos Ginés & Marcelo Peyregne
- InCom: Leonel Temer
- YP-Com: Matías Palma (Delegate), Vincent Besson (Alternate Delegate), Sebastian Iglesias (Alternate Delegate), Juan Martín Rodríguez (Americas Vice-President Supporter)

1.2 Participation in Working Groups

- WG 201 – ‘Development of a Proposal of Inland Waterway Classification for South America’: Raúl S. Escalante and Giselle Sívori
- WG 216 – ‘Best Practices in Planning Inland Waterways Multimodal Platforms’: María Alejandra Gómez Paz
- WG185 – ‘Site Selection and Planning for New Ports and Specialist Marine Terminals on Greenfield Sites – Technical Guidelines’: Pablo Arecco
- WG 149 – ‘Design Guidelines for Marine Multipurpose Terminals’: Carlos Ginés
- Task Group PIANC Universities Consortium (TG-PUC): Raúl S. Escalante

1.3 Membership 2018

The number of members of Argentina’s National Section remained like the previous year. Currently, it has 81 members:

- 70 Individual Members (among them 36 YP’s)
- 11 Corporate Members

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1.4 Events

1.4.1 National and Regional Activities

Argentina’s National Section organised several activities during the year in collaboration with AADIP (Argentine Association of Port Engineers) and EGIP (Graduate School of Port Engineering – Buenos Aires University).

Technical Seminar

On 5 April, the YP’s of the Argentinian Section of PIANC organised, in partnership with ShibataFenderTeam, a technical seminar related to the design and improvement of fendering systems and new technologies in port equipment, that took place in the Rialto Lounge of the Pestana Hotel in Buenos Aires City.
The opening words were held by the YP-Com Delegate for the Center Region, Eng. Sofía Gomez Manhe, who introduced Eng. Sebastián García, Secretary of PIANC Argentina, to welcome the 55 attendees, including PIANC Members, Young Professionals, students from the School of Port Engineering, as well as specialists from several related companies.

Several presentations about topics of high interest within port engineering were given by renowned international professionals, all very well received by the audience. The opportunity was also used to introduce the Yearbook 2018 of PIANC YP-Com, describing all the activities and events that took place in 2018.

All these presentations could count on a great participation and contributions from the attendees, not only with questions but also sharing interesting personal experiences.

Finally, the closing word was done by Eng. Leandro Pitton Straface, President of the Argentinian YP’s, who gave words of recognition and gratitude to the attendees, organisers and speakers.
Year End Event

On 29 November 2019, PIANC Argentina and the Argentine Association of Port Engineers (AADIP) held, for the first time, their year-end event in the Argentina Centre for Navigation in Buenos Aires.

The gathering started with a technical session during which Argentinian representatives who presented papers during the PIANC-SMART Rivers Conference 2019 in France, were able to repeat them to the local public in Argentina. Also, Argentinian representatives who participated in the 7th Biennial Technical Visit in Singapore and the PIANC Annual General Assembly in Japan told us about their experience.

Then, following a still recent tradition, the 2019 edition of the PIANC Argentina/AADIP Yearbook was presented, offering the opportunity to recall the active Argentine participation in PIANC’s Technical Commissions, as well as the past and future local and international activities.

As a last presentation, Eng. Sebastian García explained about the ‘2020-2021 PIANC/AADIP YP Support Programme’, which includes among others:

- supporting the studies of Sebastián Iglesias on his Msc. Degree in Hydraulic Engineering at Delft University of Technology
- supporting the participation of an Argentinian YP in the next biannual YP Technical Visit

To close the presentations, Eng. Raúl Escalante, First Delegate of PIANC Argentina, explained about PIANC/AADIP activities, encouraging YP-members to bring projects to carry out during the next year.

The event, which gathered almost fifty persons, among them many Young Professionals, ended with a toast to thank all the Individual and Corporate Members of PIANC Argentina, who accompanied us throughout the year, to celebrate 2019’s achievements and to wish the local section a flourishing 2020.

End of the year toast
YP Meeting and Workshop

Following this event, and seizing the opportunity given by the presence of YP’s from all around the country, on 30 November, the YP-group organised a meeting and a workshop. After reviewing past year’s events and activities, the 2020 programme was drafted, including possible events and main strategies for the year to come. The 16 YP’s attending the meeting renewed their commitment to further strengthen the YP-group in Argentina.

1.4.2 International Activities

PIANC Argentina participated in the following events:

- Eng. Pablo Arecco attended the PIANC Annual General Assembly (AGA), as well as the YP-Com Japanese Seminar, which took place in Kobe, Japan on 3-7 June 2019.
- Two YP’s from Argentina participated in the YP-Com Meeting and the 7th YP-Com BTV held in Singapore on 10-13 June 2019.
- Several members of our National Section attended the 2019 PIANC-SMART Rivers Conference, in Lyon, France, between 30 September and 3 October and five professionals from our country gave presentations at this occasion:
  
  S. Garcia, S. Villalba, A. Savarese, R. Lopez Saubidet and J. Grau.
  Some Argentinean attendees during PIANC-SMART Rivers 2019 in Lyon, France.

- Eng. Sebastian Garcia represented PIANC Argentina in the Council Meeting held in Lyon prior to the PIANC-SMART Rivers 2019 Conference.
2 PIANC AUSTRALIA & NEW ZEALAND IN 2019

2.1 Message from the Chair

2019 was a momentous year with many successful events and major initiatives. Of most importance to me was the establishment of our Regional Chapters. Located across the region, the chapters provide an easy way to connect with PIANC Australia and New Zealand and get involved with various leadership opportunities.

2.2 Major Achievements in 2019 Include:

- Organising 18 seminar and networking events in Adelaide, Auckland, Brisbane, Darwin, Hobart, Melbourne, Perth and Sydney.
- Co-Convening (with NCCOE, Engineers Australia) the Australasian Coasts and Ports 2019 Conference, including the 17th Australasian Port and Harbour Conference.
- Hosting a 2-Day Seminar pre Coasts & Ports on Crisis Management and Natural Disaster Response.
- Convening a 2-Day Seminar on New Technologies – Driving Environmental Improvements in the Ports and Coasts Sector alongside our Annual General Meeting.
- Appointing A-NZ members to 9 new International Working Groups, hosting A-NZ led Working Group (WG) meetings and promoting recent WG-reports and opportunities.
- Maintaining our international leadership through Commission Leads, Vice-President Role, presentations at the Annual General Assembly, and via Travel Assistance Grants to WG appointments.
- Continuing to support our local members and grow our community through the establishment of 7 Regional Chapters in WA, SA, Vic/Tas, NSW, QLD, NT and NZ.
- Ensuring Board leadership, financial stability and ongoing risk management of PIANC A-NZ activities through regular active communications, transparent operations and member focused initiatives.

In addition to the above achievements, we were excited to announce our new biennial conference series, APAC 2020 (www.pianc2020.com), focused on harbours, ports and recreational boating across Asia Pacific to be held in Fremantle, WA on 16-19 June 2020. A pre-conference symposium on ‘Nature Based Solutions for Coasts, Ports and Estuaries’ would also be held prior to the conference. Unfortunately, due to the Covid-19 pandemic, the conference had to be postponed and it is now scheduled to take place on 30 November-4 December 2020.

2.3 2019 Australasian Coasts and Ports Conference

The Coasts and Ports 2019 Conference, held in Hobart, Tasmania from 10 to 13 September 2019 was attended by more than 400 delegates from around the region. Her Excellency Professor the Honourable Kate Warner AC, Governor of Tasmania opened the conference. 185 papers were presented under the Conference themes of Coastal processes; Port and maritime engineering – including dredging management; Coastal and Ocean Engineering – including recreational facilities and beach nourishment; Port and coastal planning, policy and management – including climate change adaptation; and the Blue Economy – including marine renewable energy.
Key note speakers included James Dalton, Director of Civil Works, Headquarters, U.S. Army Corps of Engineers, Associate Professor Ron Cox from UNSW Water Research Laboratory, Karen Rees Director Antarctic Tasmania & Regional Economic Development, Department of State Growth, Robb Clifton, Operations Manager, Australian Antarctic Division (AAD), Professor Stewart Frusher, Director, Centre for Marine Socioecology, University of Tasmania and Associate Professor Irene Penesis Lead, Marine Renewable Energy Research Group, University of Tasmania.

2.4 PIANC’s Pre-Coasts & Ports Hobart Seminar

Crisis Management and Natural Disaster Response

The purpose of the 2-day seminar held on 9-10 September was to improve preparedness for natural disaster and crisis events that can occur in ports and harbours, sharing knowledge and first-hand experience from around the globe. The Seminar attracted guests from around Australia, as well as New Zealand, Japan and the US.

PIANC A-NZ Chair Will Glamore thanked the PIANC Organising Committee, Chris Carboon (Chair), A/Prof Ron Cox (Technical Programme Coordinator) and the indefatigable Neil Lawson (Seminar Support) for all their hard work. “The Seminar had provided in-depth meaningful conversation” he said, “between global experts on critical topics of great relevance to the PIANC member community.”

2.5 2019 PIANC A-NZ Young Authors Award

Established in 1988, the prestigious PIANC A-NZ Young Authors Award is traditionally presented at the biennial Coasts and Ports Conference for the best paper and presentation by an author 40 and under.

This year PIANC A-NZ Chair William Glamore was delighted to award the 2019 prize to Damon Howe for his paper and presentation titled ‘Integration of Wave Energy Converters within Floating Offshore Structures’.

Damon is a final year PhD Candidate in the field of Maritime Engineering at the Australian Maritime College, a specialist institute of the University of Tasmania. His paper, co-authored with Jean-Roch Nader and Gregor Macfarlane, provided a brief synopsis of a significant experimental investigation to explore a proof-of-concept for a floating breakwater integrated with multiple Oscillating Water Column (OWC) Wave Energy Converters (WEC).

For more information about Damon and his research see here.

2.6 AGM – New Technologies Seminar

In May 2019, PIANC A-NZ convened a very successful seminar on ‘New Technologies – Driving Environmental Improvements in the Ports and Coastal Sector’.

12 expert presenters covered a wide variety of topics – sharing technical knowledge, experience, and the challenges and advantages of embracing the new powers, to an appreciative audience of industry colleagues.

NSW Ports CEO Marika Calfas, who is also PIANC A-NZ Environmental Commission representative, opened the seminar with pertinent examples of new technologies in the international and domestic port space – including automation, drone technology, remotely controlled tugs and – crucially – data sharing, showing how “technological change can lead to operational efficiencies and environmental improvements. There can be a very positive relationship”, she said, “between technologies, the environment, efficiencies and hence costs.”

Closing the seminar, PIANC A-NZ Chair, Associate Professor Will Glamore reminded the attendees that innovations driving – indeed enforcing – widespread industry changes are not a new phenomenon.
Back in the days of PIANC’s origins – the 1880s – the engineering innovation of the new Suez Canal, which permitted only steamships through its narrow channel, resulted in a whole system change.

“Yet innovations in themselves”, he said, “cannot always effect change, and many apparently exciting gadgets and gizmos turn out to have very brief shelf lives. There must be social adaptation at the same time. That is, the new technology must align with the values of our communities, the needs of our stakeholders. And their values and needs are not just about industry cost savings.”

Presentations – if available – have been uploaded for PIANC A-NZ members on the members documents section of the PIANC A-NZ website.

2.7 PIANC Board Members

The Board of PIANC A-NZ meets 4 times per year. Each meeting has a different focus: Annual plan – tracking and performance/AGM/Strategic Planning/Budget and Financial Review. In May, the AGM confirmed the following Board members:

2019 PIANC A-NZ Board Members

- Chair: William Glamore
- Deputy Chair: Greg Britton
- Secretary: Joel Bailey
- Treasurer: Neil Lawson
- Luke Campbell (WA)
- Chris Carboon (VIC)
- Peter Engelen (NSW)
- Richard Hill (VIC)
- Kevin Kane (QLD)
- Scott Keane (QLD)
- Kate Panayatou (on maternity leave)
- Michel de Vos (NZ)

Board Members nominated by NCCOE (National Committee on Coastal & Ocean Engineering): Ron Cox and Katrina Dodd

2019 Observer to the Board – as part of the Observership Programme: Amanda Martin, Manager Business Improvement & PMO at Qantas
2.8 PIANC Technical Commissions

Internationally, 4 PIANC Technical Commissions (EnviCom, InCom, MarCom, RecCom) cover the different areas of waterborne transport infrastructure: Environmental, Inland Navigation, Maritime Navigation and Recreational Navigation. These Commissions supervise the work carried out by PIANC experts in the respective Working Groups on subjects of interest. The reports prepared by these Working Groups are the core business of our Association.

PIANC A-NZ has national member representation on EnviCom, MarCom and RecCom. We also have representation on PIANC Commission for Countries in Transition – International Co-operation (CoCom), and Young Professionals (YP-Com).

Note that PIANC’s global finances and promotion/marketing are handled by FinCom and ProCom, respectively. Currently, PIANC A-NZ is well represented by Neil Lawson as PIANC Vice-President (see final story below).

All our Commission Leads work very hard to ensure PIANC A-NZ stays connected and involved. They are as follows:

<table>
<thead>
<tr>
<th>Commission</th>
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<tr>
<td>CoCom PTG CC</td>
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<td>EnviCom</td>
<td>Marika Calfas, Alternate Ron Cox</td>
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<td>ExCom FinCom ProCom</td>
<td>Neil Lawson as Vice-President</td>
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<td>MarCom</td>
<td>Peter Fountain, Alternate Scott Keane</td>
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<tr>
<td>RecCom</td>
<td>Greg Britton</td>
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<tr>
<td>YPCom</td>
<td>Rodney Hancock, (A-NZ Chair) Chip Pohlen, YP NZ Tom Shand (Asia Pacific Vice-Chair)</td>
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2.9 Membership Report

2019 saw continued growth in both Individual and Corporate Members of PIANC A-NZ. Corporate Membership is an ideal means to provide increased opportunities and remains a key focus moving forward.

For new Corporate Member Maritime Constructions based in Western and South Australia, joining PIANC makes great business sense. Imran Lambay, GM of Western Region said: “As a marine infrastructure contractor, we will benefit greatly from understanding and contributing to the climate change adaptation strategies being discussed at PIANC.”

PIANC A-NZ Membership 2013-2019

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2.10 Regional Chapters Report

In 2019, PIANC A-NZ furthered its aim of developing regional chapters. The project was driven by Board Member Luke Campbell, who believes, with the Board, that as well as contributing to an international body of knowledge, and sharing industry knowledge and best practice, PIANC is about bringing people in our industry together, and supporting the next generation of professionals in the industry.

We hope that effective regional chapters will support and enhance all these aims and activities. Regions will be interlinked – with sharing of event materials and content between chapters, and, where possible, eminent speakers – international or national. But they will also focus on local needs and regional requirements.

In 2019, 18 events were hosted around the region – in Adelaide, Auckland, Brisbane, Darwin, Hobart, Melbourne, Perth and Sydney, supported by burgeoning new chapters. Each Regional Chapter has an independent leadership committee with responsibility to manage its own regional events and communications while also reporting to, and liaising with, the National PIANC A-NZ Board and PIANC Comms.

Each Regional Chapter leadership committee also includes a Young Professional Representative. More information is here: https://pianc.org.au/about/regional-chapters-2019/.

2.11 PIANC A-NZ Membership Survey

Increasing meaningful and regular interactions with our members was the main mission of PIANC A-NZ in 2019. To that end a membership survey was undertaken, led by Board Observer Amanda Martin, seeking feedback from members on their reasons for and expectations of membership, and how we can better engage with and provide value to them.

52 survey responses were received from PIANC members (excluding Board members).

Some key findings:

- Gaining access to advanced technical information was a key driver for membership for PIANC, with almost half (44 %) of all respondents selecting this as a reason for joining. Other important reasons were being able to share as well as receive knowledge and expertise (36 %).
• Conferences were the most important information sought by respondents (63%); closely followed by Working Groups and reports (62%) and Issues and trends impacting waterborne transport infrastructure (62%).
• International PIANC updates were also valued with 44% of respondents indicating this information was important.
• Well over half (58%) of respondents were already involved or interested in being involved in a Regional Chapter.
• Nearly two thirds (62%) of respondents are either satisfied, or very satisfied with the current communications they receive from PIANC A-NZ, although a significant proportion of respondents (27%) did not answer the question.

2.12 Young Professionals

The Young Professional (YP) Committee is a vital part of PIANC’s future. In 2019, Rodney Hancock served as A-NZ Chair and Dr. Tom Shand as Vice-Chair for the YP Asia-Pacific region.

The Biennial Technical Visit (BTV) is PIANC’s signature international event for Young Professionals (YP’s). The 2019 BTV was held in Singapore in June, with Tom Shand instrumental in the preparation and delivery of the event. This year’s BTV was the first hosted by an Asian country and as Rodney reports, “it set a very high standard with strong and diverse attendance, a great line-up of presentations including PIANC A-NZ Board member Ron Cox, some truly fantastic technical site visits, and of course some convivial social functions throughout the week”.

A series of local networking events were hosted by YP PIANC A-NZ in 2019, including events in Adelaide, Auckland, Darwin and Sydney.

In August, the NSW Chapter of PIANC ANZ and the Port Authority of New South Wales organised a technical tour of the Overseas Passenger Terminal at Circular Quay, one of the most iconic and memorable cruise hubs in the world. Following the tour, all the attendees met at Cruise Bar’s courtyard just next to the terminal for drinks and canapes.

In October, 30 YP’s from PIANC A-NZ were hosted by the Wynyard Edge Alliance on a tour of the America's Cup infrastructure construction project. The tour included visits to the Hobson Wharf Extension, the new breakwater structures off Halsey and Wynyard Wharves and new Team New Zealand base. The tour concluded with a networking event in the Wynyard Quarter.

With recent and planned major projects shaping Darwin and its port activities, PIANC YP-Com took the opportunity in November to provide an event that would connect the local coastal and maritime community. The event was organised by local PIANC YP-Com Rep Jade Hundziak who described how she is keen to establish and build a PIANC community in which people from throughout industry and academia can share knowledge and expertise.

At every event, participants enjoyed the opportunity to network with other PIANC young professionals over a casual setting. We look forward to hosting more PIANC YP networking events in 2020.

Will Glamore
Chair of PIANC A-NZ
3 CCNR IN 2019

The Central Commission for the Navigation of the Rhine (CCNR) is an international organisation that exercises an essential regulatory role in the navigation of the Rhine. It is active in the technical, legal, economic and environmental fields. In all its areas of action, its work is guided by the efficiency of transport on the Rhine, safety, social considerations, and respect for the environment. Many of the CCNR’s activities now reach beyond the Rhine and are directly concerned with European navigable waterways more generally. The CCNR works closely with the European Commission as well as with the other river commissions and international organisations.

3.1 Change and Continuity: Handover of the CCNR Presidency

The regular changeover in its presidency at the end of 2019 gave the CCNR the opportunity to take stock of its extensive commitments in 2018 and 2019. The CCNR Congress, ‘150 Years of the Mannheim Act – the Driving Force Behind Dynamic Inland Navigation’ on 17 October 2018 emphatically highlighted the CCNR’s importance as a centre of excellence for the European IWT sector. The Mannheim Declaration by the transport ministers of the CCNR Member States, setting the CCNR ambitious goals and clear assignments, is a powerful boost to a forward-looking development of Rhine and inland navigation. The CCNR is seamlessly linking this policy declaration to the successful implementation of its Vision 2018.

In the past two years, the CCNR has done critical groundwork on digitalisation and automation in the IWT sector. This paves the way for a real-world development of its regulations in a way that is open to innovative new technologies. The CCNR used high-profile workshops in the infrastructure field to tackle the pressing issues of low water and moorings on the Rhine. The EU initiatives on ‘Good Navigation Status’ (GNS) and on the Rhine-Alpine TEN-T corridor were supported on the CCNR side with constructive contributions.

Further progress was made in the collaboration between the CCNR and the European Union during the German presidency of the CCNR. For example, the joint European standardisation body CESNI (European committee for drawing up standards in the field of inland navigation) received a sustained boost through the expansion of its remit to include inland navigation information services. The CCNR emphasised however that the stepping up of collaboration with the European Union must remain on its agenda.

However, the discussion and decision-making process within the CCNR as well should always be subjected to critical scrutiny. The reorganisation of the CCNR’s plenary session and Consultative Conference and the closer involvement of the approved non-governmental organisations are important steps in this.
The Belgian CCNR presidency-designate outlined its objectives and priorities for the next two years. From the perspective of the Belgian delegation headed by Mr Michel-Etienne Tilemans, greening, automation and the digitalisation of the IWT sector, together with the stepping up of collaboration with the European Union will continue to be key areas of the CCNR’s work in 2020 and 2021.

3.2 Cybersecurity in Inland Navigation

On 5 September 2019, the first international workshop on cybersecurity in inland navigation was held in the Rhineland city of Bonn, under the auspices of the CCNR and in partnership with the German Federal Ministry of Transport and Digital Infrastructure (BMVI) and the World Association for Waterborne Transport Infrastructure (PIANC). The 11 high level presentations and two inspiring round tables clearly demonstrated to over 100 participants, from both public and private institutions and organisations, the need for all players in the waterway sector to address the complexity of challenges on the topic of cybersecurity in order to succeed in the digital transition of inland navigation. The workshop also made it possible for the CCNR to collect a great deal of information, advice and concrete proposals for its future work on cybersecurity in inland navigation.

With the adoption of the Mannheim declaration on 17 October 2018, the ministers of the CCNR Member States call to promote the development of digitisation, automation and other modern technologies in order to contribute to competitiveness, security and sustainable development in inland navigation. In this respect, the workshop devoted to cybersecurity in inland navigation aimed specifically at reinforcing the level of information on cybersecurity for the different players in inland navigation, while also fostering exchanges and cooperation between the different players in the sector. It was indeed fundamental to start some coordinated thinking and to find a consensus on how to minimise the risks that affect the reliability of the digital environment of inland navigation.

The workshop presentations and pictures are available via the following link: https://www.ccrrzkr.org/13020152-en.html

3.3 Low Water and Effects on Rhine Navigation

On 26 November 2019, the CCNR organised a workshop on low water and its impact on Rhine navigation at the German Federal Ministry of Transport and Digital Infrastructure (BMVI) in Bonn.

9 presenters and 11 panellists at the workshop shared their views on low water and discussed the challenges facing Rhine navigation with the 150 participants present. The workshop’s objective, which was to help inland navigation overcome challenges associated with the low water phenomenon and stimulate discussion on coping strategies, was supported through active participation of high-level participants from industry, administration, river commissions, universities and research institutes from six European countries as well as representatives from the European Commission. This diversity of participants favoured a discussion of the challenges of low water from several perspectives and forged a unique opportunity to address the points of view from a wide spectrum of inland navigation’s key players.

As a follow-up to this important workshop, the CCNR Secretariat will draft a report highlighting the challenges and measures already available to increase the resilience of inland waterway transport to low water, in close collaboration with the workshop participants and key inland navigation stakeholders. In the meantime, the German waterways and shipping administration announced the extension of its water level forecast from four to ten days, for selected Rhine gauge stations.

The workshop presentations and pictures are available via the following link: https://www.ccrrzkr.org/13020151-en.html

3.4 Financing the Energy Transition

How and with which financial tools can the European IWT sector cope with the energy transition to zero emission navigation? The study on ‘The Financing of the Energy Transition for a Zero Emissions European Inland Navigation Sector’, commissioned by the CCNR, as agreed in the spring of 2019, is intended to provide answers to this important question. This study is intended – as are additional Dutch
and Swiss-sponsored analyses on the polluter pays principle in the IWT sector and on technological issues – to feed into the CCNR’s implementation of the Mannheim Declaration. The findings of the main study should be available in October 2020.

3.5 Economic Situation of Inland Navigation in Europe

In partnership with the European Commission, the CCNR published its 2019 annual Market Observation report on inland navigation in Europe in September and its Market Insight reports, in April and November 2019. These reports provide an exhaustive overview of the market situation and of developments in European inland navigation during 2017-2018.

The Market Observation and Market Insight reports are respectively annual and biannual publications by the CCNR dealing with the European inland navigation market. The CCNR also publishes a thematic report once a year, the theme of which is defined in consultation with the European Commission. These analyses of the economic situation, which are free of charge, aim to assist strategic decision making in this sector in Europe, by both the profession and firms as well as in terms of transport policy and within administrative authorities. The gathering and analysis of this data by the CCNR has been co-financed by the European Commission since 2005. This fruitful collaboration has enabled the CCNR to extend this activity, which historically it has been carrying on for almost two centuries, beyond the Rhine region to cover all Europe’s navigable waterways.

The full reports can be downloaded in PDF format in English, French, German or Dutch from https://www.ccr-zkr.org/13020800-en.html or viewed directly online at: https://www.inland-navigation-market.org/

3.6 CCNR Confirms Proposal for Appropriate Goals for the Good Navigation Status of Rivers and Canals

At its autumn plenary session on 4 December 2019, the CCNR confirmed the proposals by the European ‘Correspondence Group for Supporting the Achievement of Good Navigation Status and for Developing Appropriate Goals for Rivers and Canals’ for the Rhine. The proposals developed by the Correspondence Group for what is known in specialist circles as Good Navigation Status or GNS are in line with the CCNR’s belief that an international waterway such as the Rhine can only be developed on a cooperative basis. The proposals are in the spirit both of the Mannheim Act principle of maintaining and improving the Rhine waterway and in the spirit of the Strategy for the CCNR, as well as being in line with the goals of the Mannheim Declaration.

The CCNR delegations emphasised that it makes no sense to prescribe the availability of infrastructure as an important element in good navigation on a one-size-fits-all basis for Europe; it should instead be achieved flexibly on a corridor-specific basis in the appropriate international collaborative mechanisms such as river commissions. There would also have to be the facility within such a corridor to set different performance indicators for availability. The CCNR also welcomed the proposed proscription on deterioration, the aim of which, by analogy with comparable requirements in the Water Framework Directive, is to prohibit the condition of waterways from deteriorating compared with a current as-is state.

The European Union’s guidelines for developing a trans-European transport network (Regulation (EU) 1315/2013) were adopted back in 2013. Inter alia, this policy, also known as the TEN-T Regulation, sets targets for rivers and canals to be achieved by 2030. This also includes achievement, and subsequent maintenance, of a Good Navigation Status. However, the Regulation does not contain any definition of, or other information about, Good Navigation Status. This prompted the European Commission to commission the ‘Study on Support Measures for the Implementation of the TEN-T Core Network Related to Seaports, Inland Ports and Inland Waterway Transport’ in 2015. The study, published in January 2018, provided the first input to Good Navigation Status. However, it was already apparent at the two pan-European expert group meetings on the development of the study, in Rotterdam and Brussels, that the representatives of the EU Member States had different views about the goals proposed in the study for rivers and canals.
In order to arrive at a realistic appreciation capable of commanding a consensus, in 2017 the CCNR set up the Correspondence Group, in which experts from nine EU Member States together with representatives of the Secretariats of the CCNR, the Danube Commission and Sava Commission, developed proposals for appropriate goals for Good Navigation Status for both free-flowing and impounded rivers and canals. The deliverables submitted by the Correspondence Group in the spring of 2019 are an important basis for further work by the NAIADES expert group and NAIADES GNS subgroup. They constitute the core of the recommendations by the NAIADES GNS subgroup on the further implementation of Good Navigation Status and were confirmed by the NAIADES expert group at its meeting in October 2019.

This extremely successful initiative demonstrates that the CCNR is capable of providing effective support for the development of inland navigation policies at European level, including the inland navigation infrastructure arena, thanks to its expertise and good contacts with other international organisations.

3.7 Extension of the Electronic Reporting Obligation on the Rhine

At its autumn plenary session 2019, the CCNR resolved to extend the electronic reporting obligation to all vessels subject to the reporting requirements and special transports as of 01 December 2021. This initiative is intended to further improve the safe navigation of the Rhine while at the same time reducing the administrative burden.

In accepting this resolution, the CCNR is pursuing two objectives:

- The shipping industry is being informed in a timely fashion of the date of the extension of the electronic reporting obligation to vessels and special transports that fall under section 12.01(1)(a) and (d) to (h) of the Police Regulations for the Navigation of the Rhine (RPR) – namely with effect from 1 December 2021. This enables the shipping industry to make the best possible preparations.
- The Police Regulations Committee is being instructed to make the necessary regulatory changes with a view to the planned extension of the electronic reporting obligation and to support the industry during the preparatory activities.

3.8 Revision of the Regulations for Rhine Navigation Personnel

It is nothing less than a ‘new era’ in the qualification system in inland navigation: After several years of joint endeavours, the CCNR’s specialised bodies have developed detailed proposals for the complete revision of the Regulations for Rhine Navigation Personnel (RPN). The proposals aim to modernise this set of rules for the Rhine within the European framework and in particular to integrate the competence-based approach to the qualification system. The CCNR is aiming to reach a decision at its spring session 2020 after concluding consultations with the European Commission and other partners.

The amendment of the Regulations for Rhine Navigation Personnel aims to:

- Maintain high safety standards on the Rhine
- Create a harmonised European legal framework and ensure the unity of the Rhine regime as well as paving the way for integration of the CESNI standard
- Ensure the continuation of integrated administration by the Rhine authorities, e.g. in the field of inspections and possible measures
- Ensure that inland navigation personnel can continue to enjoy efficient Rhine navigation procedures (e.g. the issuing, amendment or renewal of certificates of qualification, service record books and medical certificates)
- Provide a basis for implementation of directive (EU) 2017/2397 at national level and for international recommendations and regulations, e.g. the river commissions and UNECE

3.9 CCNR’S Collaboration with International Organisations

The CCNR expressed its satisfaction with the ongoing and constructive collaboration with other river commissions, the UNECE, the ICPR and the CHR, the Observer States, the approved nongovernmental organisations – including PIANC – and all the significant inland navigation stakeholders both at the
European and international level. Compelling evidence of this collaboration is the active participation of the approved organisations in the Consultative Conference, last held on 8 October 2019. The CCNR was also very pleased to participate actively in the PIANC-SMART Rivers Conference, which took place from 30 September to 3 October 2019 in Lyon, France.

3.10 CCNR Collaboration with the European Union

The CCNR once again welcomed the continued and fruitful collaboration with the European Union, and in particular with the services of the European Commission’s Directorate-General for Mobility and Transport (DG MOVE). This cooperation was endorsed by the signing of a new tri-annual financial framework (2019-2021) which came into force in January 2019 and which is intended to support joint activities under the 2013 Administrative arrangement. The work modules identified for the next three years concern in particular technical requirements for vessels, professional qualifications for navigation personnel, inland navigation information technologies, Market Observation work and the concept of ‘Good Navigation Status’, as well as essential support functions for these activities.

In addition to its tried-and-tested support for the CESNI’s activities, the CCNR has also been actively involved in the discussions on the planned EU action programme 2021-2027 for the IWT sector. In so doing its contribution has been consistent with the EU Council’s calls for the future development of inland waterways as a mode of transport at European level. Regular meetings between the CCNR and EU Commission ensure a constant lively dialogue on ongoing activities, strategic European inland waterway transport policy issues and on bilateral issues such as the prospects for their collaboration beyond 2021.

3.11 About the CESNI

The European Committee for drawing up Standards in the field of Inland Navigation (CESNI) was set up in 2015 under the auspices of the CCNR in order to adopt technical standards in various fields, in particular as regards vessels, information technology and crew, to which the respective regulations at the European and international level, including those of the European Union and the CCNR, may refer with a view to their application. The CESNI Committee brings together the member States of the CCNR and of the European Union, the European Commission, international organisations, including river commissions, and representative non-governmental organisations, as well as Observer States; the Committee’s Secretariat is provided by the CCNR.

The role of the CESNI is to contribute to the adoption by common agreement of uniform standards on the Rhine and over the whole network of inland waterways in the European Union with a view to:

- improving safety and protection of the environment with regard to river transport
- promoting jobs in inland navigation and making the sector more attractive
- facilitating transport operations and promoting international trade

3.11.1 Meetings of the CESNI in 2019

The meeting of the CESNI on 10 April 2019 in Strasbourg was the opportunity to adopt several adjustments to its 2019-2021 work programme and also saw the setting up of new temporary working groups in the professional qualifications field, on quality management (CESNI/ QP/QM) and crew requirements, as well as the granting of approved non-governmental organisation to the European Maritime Heritage (EMH) association.

The CESNI meeting on 15 October 2019 in Strasbourg saw the adoption, inter alia, of the standards for crew-related documents CESNI/QP. These standards concern, on the one hand, uniform models for service record books and logbooks in the conventional paper format, suited for use on all European Union inland waterways and on the Rhine; and on the other hand, certificates of qualification as a boatmaster and as an expert for passenger navigation and for LNG, designed to be used in electronic format for the first time starting in January 2022.
The CESNI work programme in the information technologies field and the integration of the existing RIS expert groups into the CESNI’s organisational structure and processes were also adopted. The new CESNI working group on information technologies (CESNI/TI) concluded its preparatory work and began work on concrete implementation with at its 2019 December meeting. As regards the field of technical requirements for vessels (CESNI/PT), the Committee adopted a guide to facilitate the installation of marinised engines, such as heavy goods vehicle engines, on board inland navigation vessels. This measure is in line with the desire to promote the greening of the fleet. Moreover, the Committee organised a workshop on the prevention of collisions between inland navigation vessels and bridges.

3.12 About the CDNI

The Convention of 9 September 1996 on the collection, deposit and reception of waste produced during navigation on the Rhine and inland waterways (CDNI) entered into force on 1 November 2009. It has six Contracting States (Germany, Belgium, France, Grand Duchy of Luxembourg, the Netherlands and Switzerland); its aim is to protect the environment, particularly water. To achieve this, the CDNI sets up rules aimed at discouraging the production of waste, channelling waste towards a network of dedicated reception stations throughout the network of navigable waterways, ensuring funding for these initiatives at the international level in accordance with the ‘polluter pays’ principle, and monitoring compliance with the bans on discharging the waste in question into the surface water. An amendment to the Convention, currently being ratified, concerns the reception of gaseous residues of liquid cargoes and aims to protect the atmosphere. The CDNI’s Secretariat is provided by the CCNR.

3.12.1 CDNI: Celebrations of the 10th Anniversary of its Entry into Force

The CDNI celebrated on 17 December the 10th anniversary of its entry into force (1 November 2009). This anniversary was celebrated in the Palais du Rhin in Strasbourg (France) in the presence of 80 prominent guests actively committed to protecting the environment.

To mark this anniversary, the Conference of the Contracting Parties (CPC) invited the founding members who conceived and designed the international convention. In 10 years, the CDNI substantially contributed to making inland navigation more environmentally friendly and to making it a trendsetting mode of transport in this field, both from a waste management perspective and from its international mode of financing. A publication focusing on the recollections of the founding members, recalling the beginnings and context in which the Convention was conceived, will also be published in 2020.

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Lucie Fahrner
Communication officer CCNR
4 PIANC CZECH REPUBLIC IN 2019

4.1 Boat ‘BESKYDY’

The Czech Section would like to inform about the recently renovated Czech boat Beskydy. This motor vessel is unique. It has been serving on the Czech waterways mainly on the Elbe river for 62 years. It should have been scraped as old metal but instead it became a legend. RVC (Reditelství vodních cest – Waterways Directorat of the Czech Republic with participation of the Czech PIANC Section) managed to save it and after renovation the boat is back in service.

In the year 2018, the boat Beskydy was declared a Technical monument but still it remains on duty as a stern wheeler tugboat especially needed on the stretch between Strekov and Decin where during low water period tows commercial vessels with deeper draft. The Beskydy itself has a very low draft but its relatively big towing power is able also help during some accidents on waterways.

The attached photo (taken by RVC from the direction of castle Melnik) shows the Beskydy in front of the lock Horin nearby the Vltava and the Elbe confluence. The portal of the lock itself has now been disassembled. During year 2020, it will be reconstructed to a movable (lifting) bridge to increase underpass height. The final appearance will be the same as the historical look. This project is also under supervision and investment scheme of RVC.

Jaroslav Bimka
First Delegate of the Czech Section of PIANC
5 PIANC DENMARK IN 2019

2019 was a challenging year for PIANC Denmark with the NordPIANC meeting as the dominant activity. The number of members is stable. The co-operation with the Danish Society of Hydrodynamics and Hydraulic Engineering (VBS) develops with joint meeting activity. There is a great overlap of members of the two organisations which makes this cooperation both natural and practical.

5.1 PIANC Members

Individual: 12
Corporate: 14

The Danish members are mainly port authorities and marine consultants, thus with main interest in port development, maritime transport and coastal and environmental engineering.

5.2 Section Board Members

- Jens Kirkegaard, Senior Consultant, DHI (Chairman). Appointed by membership.
- Miquel Pires, Harbour Logistics, Ørsted A/S. Appointed by Qualifying Members.
- Henrik Hostrup-Petersen, Project and Marketing Director, COWI A/S. Appointed by Qualifying members.
- Christian Vrist, Port of Thyborøn. Appointed by Danish Ports (association).
- Peter Ydesen, Port of Hirtshals. Appointed by membership.
- Associated member: Peter Sloth, Senior Engineer, DHI. Appointed by membership.

5.3 Secretariat

- DHI, Agern Allé 5, DK-2970 Hørsholm, Denmark
  Att: Jens Kirkegaard

5.4 Activities in 2019

Member of MarCom: H.F. Burcharth, Professor Dr. Techn., Aalborg University

Working Group Members:

- WG 194 – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’: Niels Kiersgaard, Port of Lindo A/S

5.5 Meetings and Conferences

14 May 2019: Visit to Port of Hansholm and PIANC General Meeting

The meeting described the design and construction of the port expansion and new outer breakwater of the most exposed port on the North Sea coast. Papers were presented on model testing with cubipod-blocks, sedimentation issues and design of the new structures. Following the presentation of background information, the participants visited the construction site guided by the contractor Per Aarsleff A/S.
This year’s NordPIANC meeting in Hirtshals was hosted by the Danish National Section. NordPIANC meetings are biannual events organised in turn by the Nordic Sections of PIANC with the aim to exchange experience from new and ongoing projects and research in the participant countries.

A total of 76 participants met at the Port of Hirtshals on the evening of 11 September. Hirtshals is a major hub for transport between the European continent and the Scandinavian peninsular. For once, participants had the opportunity to arrive by air or by ferry from the neighbouring countries. PIANC HQ also had invited the Secretaries of the National Sections for a meeting in the afternoon. In the evening, the participants gathered at the impressive North Sea Oceanarium for a welcome reception in front of the large aquarium with all sorts of marine animals.
On the following day, a technical session was organised with 14 presentations ranging from historical accounts of lighthouse equipment over weather standby considerations during marine construction to transport by autonomous vessels. Event sponsors had the opportunity to display their methodologies and news.

At the end of the day, Port of Hirtshals invited the participants for a tour of the port area starting by a brief visit to the local lighthouse, which offers a 360-degrees view of the port and the hinterland. The tour took us along the quays of the fishing port and the five modern ferry terminals.

Early morning on the third day, the group went by bus 150 km towards the Port of Hanstholm. We briefly stopped at the coastal village of Thorup Strand which is one of the few active sites on the Danish coast with coastal fishery using traditional boats from the beach.
Port of Hanstholm. The new breakwater extends further 440 m with a 7,000-t concrete caisson as breakwater head.

During lunch, hosted by the main contractor Aarsleff A/S, the consulting engineers presented the background and the design issues for the new western breakwater and the extended port facilities. We were blessed by ideal weather for the visit – clear sky and a moderate westerly storm.

The participants got a first-hand impression of the challenges for port construction at this exposed site as they went out on the construction site for the 440-m breakwater extension. Overtopping waves and spray prevented access to the breakwater head caisson. The breakwater is now partly finished with large Cubipods as main armour (up to 15-22 t blocks) and ready for placement of the capping layer in the spring of 2020.
We also visited the new reclaimed area to the east where dredging works of the extended 9-m deep port basin is ongoing. The expansion consists of 130,000 m² reclamation and 500 m quay.

The CAT 6015B handles all armour blocks  
Wet access to the new breakwater

The technical presentations are available at the PIANC website: https://www.pianc.org/nordpianc-meeting.

28 November 2019: Seminar ‘The Everyday Life of the Professional’

Organised in co-operation with VBS. The seminar gave a broad view of activities along the Danish coasts, a.o. upgrade of coast protection schemes, design and construction of skidding areas for heavy loads in ports, new ferry ports, UKC optimisation studies in approach channels and modelling of regional inundation around port cities.

Jens Kirkegaard  
Chairman of PIANC Denmark
6 PIANC FINLAND IN 2019

6.1 Membership

First Delegate: Mr Esa Sirkiä, Finnish Transport Infrastructure Agency

Board Members of the Finnish Section of PIANC in 2019:

- Mr Olli Holm (Chairperson, Finnish Transport Infrastructure Agency)
- Ms Satu Aatra (Port of Helsinki)
- Mr Seppo Virmalainen (Finnish Consulting Group Ltd.)
- Mr Hannu Tomperi (Boskalis Terramare Ltd.)
- Mr Tero Sikiö (Secretary, Finnish Transport Infrastructure Agency)

Commission Members in 2019:

- Mr Tero Sikiö, InCom
- Mr Simo Kerkelä, MarCom
- Mr Olli Holm, EnviCom and ProCom
- Ms Mirja Rosenberg-Kurki, RecCom

Honorary Members of PIANC Finland:

- Mr Kimmo Mannola
- Mr Keijo Kostiainen

The year 2019 started with changes in the management of PIANC Finland. The Finnish Transport Infrastructure Agency appointed Mr Esa Sirkiä as the First Delegate of Finland. He is the Director of Waterways of the Agency as well as Departmental Director of Project Implementation. He has a long experience in fairway planning and fairway projects, and he has also been a member of PIANC WG 121 – ‘Harbour Approach Channels Design Guidelines’.

From the beginning of the year, Mr Risto Lång handed over the chairperson's tasks to Mr Olli Holm, partly due to the reorganisation of transport agencies in Finland. Mr Holm is Senior Advisor in Infrastructure Management and has a very long experience in fairway and canal planning and projects. He is also member of EnviCom, ProCom and PTG CC. Previously he has been member of InCom and Secretary of PIANC Finland.

PIANC Finland also appointed a new representative to RecCom. Ms Mirja Rosenberg-Kurki followed Mr Kari Sane as the Finnish representative. She works as the Cruising Coordinator and Training Manager at the Finnish Sailing and Boating Federation. She has a long experience in the field of recreational boating and sailing. She is also a member of PIANC WG 209 – ‘Recommendations for the Use of AIS Data for Recreational Navigation Infrastructure’ and WG 219 – ‘Guidelines to Develop and Operate Sustainable Inland Waterway Tourism and Recreation Infrastructure’.
In June, PIANC Finland participated in the AGA in Japan with two delegates. In September, PIANC Finland participated in the NordPIANC meeting in Hirsthals, Denmark with a group of four members. In the NordPIANC technical seminar, Finland had one presentation.

PIANC Finland organised a visit to Port of HaminaKotka in October. The visit included presentations of the port and the quay and terminal project together with site visit to the new quay and terminal area in Mussalo Harbour. Approximately ten members took part in the visit.

*New quay in Mussalo Harbour*

Olli Holm
Chairperson of PIANC Finland
7 LA SECTION FRANÇAISE DE L’AIPCN EN 2019

7.1 Journées Littoral et Changement Climatique coorganisées par la SHF et la Section Française de PIANC les 21 et 22 novembre 2019

Dans le cadre des rencontres de la SHF (Société Hydrotechnique de France : http://www.shf-hydro.org) tenues du 20 au 22 novembre 2019 sur le site de l’Ecole des Ponts ParisTech à la Cité Descartes à Marne la Vallée, l’AIPCN s’est associée à la SHF pour organiser un colloque de deux journées intitulé « Littoral et Changement Climatique : Adaptation des côtes, des ports et des estuaires au changement climatique ». Paul Scherrer, Premier Délégué France de PIANC et par ailleurs membre du Conseil d’Administration de la SHF a pris une part active au comité d’organisation de ces deux journées qui ont vu la présentation de près de quarante conférences classées selon les thèmes suivants :

- **Stratégies d’adaptation régionale**, avec notamment l’adaptation de la côte fortement urbanisée espagnole
- **Vulnérabilité**, avec en particulier les conséquences sur les capacités assurantielles
- **Risque et adaptation portuaire**, avec présentation de plans de vulnérabilité portuaire au changement climatique
- **Caractérisation du risque de submersion marine**, avec notamment les techniques de modélisation et de prévision
- **Adaptation face au risque de submersion marine**, avec en particulier la prévision et la gestion de crise en milieu côtier et estuarien.
- **Risque d’érosion côtière**, avec les stratégies de gestion souple et de repli contrôlé du trait de côte.

Lors de la séance inaugurale, le Président de la Section Française Guillaume Le Réveillé a pu présenter globalement l’organisation et les activités internationales de PIANC.

Geoffroy Caude, Président Honoraire de PIANC a pour sa part présenté lors d’une conférence plénière un panorama international issu de l’expérience de PIANC sur le thème « Les systèmes de protection des grandes villes côtières ou estuariennes contre les tempêtes et leurs surcotes »

La conférence a aussi été l’occasion d’échanges suite à la publication en septembre 2019 par le GIEC (IPCC) du « Rapport spécial sur les liens entre le changement climatique, les océans et la cryosphère » (SROCC). Dans ce cadre, Benoît Meyssignac, co-auteur français du chapitre « Sea Level Rise and Implications for Low Lying Islands, Coasts and Communities » de ce rapport en a présenté une synthèse illustrée.

Laurent Luchez
Secrétaire-adjoint d’AIPCN France
8 PIANC GERMANY IN 2019

8.1 National and International Activities

In 2019, Mr Saber M. Elsayed, scientific assistant at the Leichtweiß-Institut für Wasserbau of the Technische Universität Braunschweig in the Department of Hydromechanics, Coastal Engineering and Lake Construction (headed by Professor Nils Goseberg), received the ‘PIANC De Paepe-Willems Award’. Since 1985, Germany has won a first prize three times (2003, 2006 and 2019).

Saber M. Elsayed was invited to the AGA in Kobe, Japan, where he received the award in June 2019 and gave a lecture on his research. Elsayed’s work is entitled ‘New Integral Modelling and Analysis Approach for Storm Surge Induced Barrier Fractures, Coastal Flooding and Subsequent Vertical Saltwater Intrusions’.

For further information see: https://magazin.tu-braunschweig.de/en/pi-post/effects-of-storm-surges-on-europes-coasts/.

On 5 September 2019, the First International Workshop on Cybersecurity in Inland Navigation was held in the Rhineland city of Bonn, under the auspices of the Central Commission for the Navigation of the Rhine (CCNR) and in partnership with the German Federal Ministry of Transport and Digital Infrastructure (BMVI) and the World Association for Waterborne Transport Infrastructure (PIANC).

The conference clearly demonstrated to over 100 participants the need for all players in the waterway sector to address the complexity of challenges on the topic of cybersecurity in order to succeed in the digital transition of inland navigation.

Mr Geert Van Cappellen, Secretary-General of PIANC, expressed his strong belief that IT risks for inland navigation will be managed more efficiently with international cooperation. For the first time, major players in the field of cybersecurity were brought together between PIANC and CCNR. For further information see: https://www.ccr-zkr.org.
The German Section presented several topics at the PIANC-SMART Rivers Conference, which took place in September in Lyon, such as:

- ‘Concept for Standardised Restoration and Extension of Ship Locks’ – Claus Kunz (BAW)
- ‘Waterborne City Logistics: Bringing Together Inland Shipping, Logistics Education and Urban Development’ – Lars Stemmler (Port Bremen)
- ‘Robustness of Navigation Infrastructure in the Context of Risk-Based Maintenance’ – Jan Akkermann (HS Karlsruhe)
- ‘COMEX Elbe-Weser Corridor – Providing Digital Aids to Navigation Information via AIS and ECDIS’ – Stefan Bober (WSV)
- ‘Willow Brush Mattresses – A Promising Method of Direct Technical-Biological Bank Protection on Waterways’ – Katja Behrendt (BFG)

For further information, see [http://www.pianc.de/](http://www.pianc.de/).

### 8.2 Membership in 2019:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
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<tr>
<td>Individual Members</td>
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<tr>
<td>Corporate Members</td>
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<tr>
<td>Platinum Partners</td>
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<tr>
<td>Life Members</td>
<td>2</td>
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<tr>
<td>Honorary Members</td>
<td>2</td>
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</tbody>
</table>

Since 2011, the development of membership is decreasing. To increase membership, as a first step, the collaboration with the HTG (German Port Technology Association) will be improved. Further steps have to be developed.

### 8.3 Translations and Publications

In addition to the PIANC InCom WG-report n°166 – 2018:
‘BAW Code of Practice Rubber Gates (MSW) Part B: Verification of the Load-Bearing Capacity of Membranes of Water-Filled Rubber Gates on Inland Waterways’, Issue 2019:

**Gabriele Peschken**  
*Secretary of PIANC Germany*
9  PIANC INDIA IN 2019

The Indian National Section of PIANC is headed by Mr Rabindra Kumar Agarwal, First Delegate and Joint Secretary (Ports), Ministry of Shipping, Government of India. The Indian National Section consists of 8 Small Corporate Members and 9 Individual Members, besides the Ministry of Shipping, Government of India being the Qualifying Member of PIANC. Mr Rabindra Kumar Agarwal is also First Delegate representing India in the PIANC Council and Annual General Assembly and other events. Mr H.N. Aswath, Development Advisor (Ports) in the Ministry of Shipping is Secretary of the Indian National Section of PIANC.

9.1 Participation in Working Groups, Seminars and Conferences

The Indian National Section has nominated several experts for the Working Groups and Technical Commissions of PIANC.

In 2019, the members of the Indian National Section attended the Annual General Assembly held in Kobe (Japan) on 3-7 June 2019, represented by Mr Rabindra Kumar Agarwal (First Delegate of PIANC India), Mr H.N. Aswath (Secretary of PIANC India) and Mr Sandeep Wadhwa. Furthermore, the Indian National Section also sent Mr Rabindra Kumar Agarwal (First Delegate & Joint Secretary (Ports) of the Ministry of Shipping) and Mr S.K. Gangwar (Member of the Technical, Inland Waterways Authority of India) to PIANC-SMART Rivers 2019 in Lyon (France), which took place from 30 September to 3 October 2019.


The Indian National Section also nominated an expert for several InCom Working Groups.

Mr Rabindra Kumar Agarwal

H.N. Aswath
Secretary of the Indian National Section of PIANC
10 PIANC IRAN IN 2019

10.1 Composition of PIANC Iran:

Members:
- 22 Individual Members
- 8 Small Corporate Members
- 4 Student Members

First Delegate of Iran:
Eng. Mohammadreza Allahyar, Ports and Maritime Organisation of Iran (Deputy Directorate for Engineering and Infrastructural Affairs Development)

Membership Status: 2011-2019

![Membership status 2011-2019](image)

Iranian Delegates:
- Eng. Afshan Khaleghi (Secretary)
- Dr. Babak Banijamali (MarCom)
  - Dr. Banijamali was appointed as new MarCom Vice-Chairman in 2019
- Dr. Naser Hajizadeh Zaker (EnviCom)
- Eng. Reza Sohrabi Ghomi (YP-Com)
- Eng. Mohammad Hossein Nemati (CoCom)
- Dr. Sahar Mokhtari (ProCom)
- Eng. Reza Saffari (InCom)
- Eng. Alireza Shafieefar (YP-Com Alternate)
- Eng. Mehdi Kamyab Roudsari (RecCom)
- Eng. Zohre Haji Salimi (Secretariat Expert)
- Eng. Atefeh Afshoon (Secretariat Expert)

10.2 Working Group Activities:

Membership:
- Dr. Babak Banijamali, PIANC Working Group 205 – ‘Design and Construction of Breakwaters on Soft Seabeds’
- Dr. Babak Banijamali, PIANC-PTG CC Working Group 178 – ‘Climate Change Adaptation for Maritime and Inland Port and Navigation Infrastructure’
• Dr. Sahar Mokhtari, PIANC Working Group 227 – ‘A Guide for Assessing and Managing Environmental Restrictions on Dredging and Disposal Operations’
• Eng. Kourosh Kayhan, PIANC Working Group 197 – ‘Small Hydropower Plant in Waterways’

Proposal for Setting Up a New WG:

• ‘Circular Economy Guidelines in Breakwaters Material Selection’

10.3 National and International Activities:

Participation in PIANC Meetings and Events:

• Technical Commission Meetings, January 2019, Brussels, Belgium
• 81st Council Meeting and National Sections’ Secretaries Meeting, June 2019, Kobe, Japan
• PIANC Annual General Assembly (AGA), June 2019, Kobe, Japan
• 7th PIANC YP-Com Biennial Technical Visit, June 2019, Singapore
• 82nd Council Meeting and National Sections’ Secretaries Meeting, September 2019, Lyon, France
• PIANC-SMART Rivers 2019 Conference, September/October 2019, Lyon, France

PIANC AGA 2019

The 3rd YP-Com Technical Visit of PIANC Iran

The 3rd YP-Com Technical Visit of PIANC Iran was held at the Shahid Rajaee Port Complex in Hormozgan Province on 26 February 2019. The Shahid Rajaee Port is Iran’s biggest container port which is located at the mouth of the Strait of Hormuz, in southern Iran.

PIANC Iran organised this visit to the third phase of the development project of Shahid Rajaee Port with the aim of acquainting Young Professionals with various fields of port development and implementation.

3rd YP-Com Technical Visit of PIANC Iran, Hormozgan Province, Iran
The 4th Technical Visit of PIANC Iran

PIANC Iran organised a technical visit to the Maritime Simulation Centre of PMO on 18 November 2019. This event was held with the participation of Student and Corporate Members of PIANC Iran.

The simulation facilities in the Maritime Simulation Centre are used for investigation of ship maneuvering, improving ship and port safety and efficiency, port development and training seafarers.

Online Training Course on ‘Safe Harbour Arrival-Departure System (PMO-SHADES)’

A three-part online course on ‘Safe Harbour Arrival-Departure System (PMO-SHADES)’ was conducted with the participation of students, consulting engineers and PMO’s experts in December 2019. This course was organised by the Ports and Maritime Organisation of Iran and was free for PIANC Iran Student Members.

The course introduced PMO-SHADES (a web-based software) and its capabilities. This system, currently commissioning at the Iranian ports, calculates dynamic under keel clearance with respect to the effects of most environmental conditions (including water level, squat, heel due to wind and turning and heave, pitch and roll motions). By applying this system, not only the safety of large vessels is enhanced, but it is also allowing vessels to have a greater draft move in shorter time intervals, promoting transport efficiency in ports.

PIANC Iran Booth at the 4th edition of the Logistics, Transportation and Related Industries Exhibition of Asia (Asia Logitrans Expo. 2019)

The 4th edition of Logistics, Transportation and Related Industries Exhibition of Asia (Asia Logitrans Expo. 2019) was held in Tehran on 15-17 December June 2019. Logistics and smart transportation, energy management, as well as the increase of the level of transportation services in the aviation, maritime and rail sectors were among the objectives of the Logitrans Expo 2019.

This event was an appropriate opportunity for the National Section to expand the active contribution to the Association and to introduce PIANC to the private sector activists of transportation in Iran.
PIANC Iran played an active role in getting the participants more acquainted with the latest activities and achievements of the Association and with the translated technical reports, using flyers and brochures in Persian and English.

PIANC Iran Booth

10.4 Memorandum of Understanding on Scientific and Executive Co-operation

In order to develop PIANC Iran's activities, the exchange of experiences, the improvement of the quality of scientific research and creation of an essential ground for enhancing educational and research affairs, PIANC Iran signed two MoU's with outstanding associations on Scientific and Executive Cooperation.

PIANC IRAN & ICOMSEA

On 2 March 2019, PIANC Iran and the Iranian Coastal and Marine Structural Engineering Association (ICOMSEA) signed a Memorandum of Understanding with the aim of promoting the knowledge of Coastal, ports and marine structures engineering and management in the country.

PIANC IRAN & ICOMSEA
PIANC IRAN & the Iranian Hydrographic Association

On 9 November 2019, PIANC Iran and the Iranian Hydrographic Association signed a Memorandum of Understanding. The purpose of this MoU is to strengthen the co-operation between PIANC Iran and the Iranian Hydrographic Association and to improve knowledge in the fields of hydrography, tide and tidal stream, dredging and the role of them in coastal engineering and management in the country.

10.5 Development of the PIANC Iran Website

The PIANC Iran website (https://pianc.pmo.ir/) has been updated to a design similar to the PIANC website and it is available in two languages: Farsi and English. This update was done as a part of wider package of measures which are all aimed to improve communication and user experience.

PIANC Iran website

PIANC website

10.6 National Section Meetings

Delegates Meetings:

The 1st meeting of PIANC Iran’s Delegates in 2019 was held on 13 May at the Ports and Maritime Organisation of Iran. On the agenda of the meeting were the detailed report explaining the activities of PIANC Iran in 2018 and the action plan of PIANC Iran for the year 2019, focusing on improving PIANC Iran’s activities in the Middle East region.

After separate meetings by the secretariat with the delegates, the 2nd meeting took place on 22 September 2019. This meeting was mainly focused on the activities in progress or in the process of implementation.
10.7 Translations and Publications

Three technical reports, MarCom WG 185 – ‘Ports on Greenfield Sites – Guidelines for Site Selection and Masterplanning’, MarCom WG 159 – ‘Renewables and Energy Efficiency for Maritime Ports’ and InCom WG 139 – ‘Values of Inland Waterways’, are being translated into Farsi. The reports will be published next year. Moreover, the certificate of membership for Corporate Members has been designed and prepared.

10.8 Upcoming Events and Activities in 2020

The 14th International Conference on Coasts, Ports and Marine Structures (ICOPMAS 2020)

The 14th International Conference on Coasts, Ports and Marine Structures (ICOPMAS 2020) was scheduled to be held on 30 November to 2 December 2020 in Tehran, Iran, organised by the Ports and Maritime Organisation of Iran with the co-operation of PIANC Iran’s Secretariat. The event will be sponsored by international organisations and associations such as PIANC, UNESCO, IALA, IAPH, WMO and CASPCOM. The conference is aimed to emphasise on strengthening technical co-operations among countries.

Unfortunately, due to the Covid-19 pandemic, it has been decided to shift the ICOPMAS Conference to 2022. For more information, please visit our website at http://icopmas.pmo.ir/ which is available in four languages, English, Persian, Arabic and Russian.
Available Sponsorships for PIANC Members

It should also be mentioned that the Ports and Maritime Organisation of Iran and the PIANC Iran Secretariat have considered some sponsorships (full and partial) for all PIANC members who are willing to attend ICOPMAS 2020:

- Registration and accommodation fee for authors whose papers have been accepted for oral presentation and up to $300 for their travel ticket.
- Registration and accommodation fee for authors whose papers have accepted for poster presentation.
- 50% of registration fee for all PIANC members want to attend the conference.

The number of grants for expenditures is limited and will only be allocated to the authors of accepted papers. The deadline for applying will be announced at the website.

Holding a Technical Course at Sultan Qaboos University in Oman with the aim of introducing PIANC to the Middle East countries

Planning and Holding the 1st ‘PIANC Iran Training Workshop’ in collaboration with Iranian Coastal and Marine Structural Engineering Association and Iranian Society of Consulting Engineers

Mohammadreza Allahyar
First Delegate of PIANC Iran
11 PIANC JAPAN IN 2019

11.1 About PIANC Japan

PIANC Japan was established in November 1977. The membership of PIANC Japan as of June 2019 is as follows:

- Individual Members: 106, Life/Honorary Members: 3, Corporate Members: 59 (Total: 168)
- The national delegation of Japan has been headed by Mr Masayuki Takada, Director General of the Ports and Harbours Bureau, Ministry of Land, Infrastructure, Transport and Tourism (MLIT) since July 2019.
- The planning committee of PIANC Japan is presided by Mr Taishi Yamamoto (Director of the International Policy Planning Office, Ports and Harbours Bureau, MLIT).
- The website of PIANC Japan is available in English at http://www.pianc-jp.org/en.

11.2 Activities of PIANC Japan

The activities of PIANC Japan in 2019 are listed below:

1. Attendance at PIANC Council Meetings
   Attendance at the 81st Council meeting on 4 June in Kobe and the 82nd Council Meeting on 30 September in Lyon.

2. Hosting AGA 2019 in Kobe
   The Annual General Assembly (AGA) 2019 and related events were successfully held at Kobe Portopia Hotel, Kobe City, Japan for the period of 5 days from 3 to 7 June and was attended by about 150 people. PIANC Japan and the Kobe City Government co-ordinated the related events. At the AGA, Mr Yoshinosuke Kurahara from Japan was awarded the second place in the De Paepe-Willems Award.

   At this occasion, PIANC Japan hosted a technical seminar attended by about 450 people. The seminar consisted of 2 sessions: an ‘Asian Session’ and a ‘Technical Session’.
3. Participation in the PIANC Technical Commissions

PIANC Japan designated members for the following Technical Commissions:

1) InCom  29-30 January in Brussels and 30 September in Lyon
2) MarCom  29-30 January in Brussels and 3-4 October in Stockholm
3) EnviCom  4 June in Kobe (EnviCom Workshop)
4) RecCom  4 June in Kobe (RecCom Open Meeting) and 28 September in Lyon
5) CoCom  30 January in Brussels
6) YP-Com  10 June in Singapore

4. Board Meeting, Annual General Assembly and Annual Report Meetings

The Board Meeting, Annual General Assembly and Annual Report Meetings of PIANC Japan were held on 24 June in Tokyo. The financial settlement in FY2018 was reported, and the following FY2019 PIANC Japan activity programmes were approved.

- Contributing to the activities of PIANC HQ through the active participation in the formulation of the basic action plan of PIANC and others.
- Contributing to PIANC technical activities with Japanese port technology and promoting international exchange of technology through active participation in working group activities of PIANC HQ.
- Extending financial support to PIANC Japan members for contributing to the above actions.
• Promoting information exchange among PIANC Japan members.
• Achieving organisational strengthening and enhancement of activities of PIANC Japan.
• Achieving organisational enhancement of young professionals of PIANC Japan.
• Increasing benefits to the members of PIANC Japan.

5. Planning Committee Meeting

The Planning Committee meeting was held on 17 June in Tokyo to discuss the activity programmes of PIANC Japan in FY2019, among other topics.

6. Meeting of the Japanese Members of PIANC Commissions & Working Groups

The meeting of Japanese members of PIANC Commissions & Working Groups was held on 24 January in Tokyo to exchange information.

7. Meetings of YP-Com Japan

PIANC Japan’s Young Professionals (YP’s) made a technical visit to Nagoya in April and Kagoshima in November. In total, 41 participants attended the visit. In parallel with the AGA in Kobe, the YP-Com seminar also took place in the same place with about 30 YP's attending from many countries.
8. PIANC Cambodia Seminar 2019

The PIANC Cambodia Seminar was held on 24-25 October 2019 in Phnom Penh for disseminating the PIANC worldwide network and more than a century of expertise.

94 experts in the field of port and inland waterway infrastructure development, operation and management, public administrations, navigation safety and environment control were represented during the event. Among the seminar topics were the development, operation and management of inland waterway infrastructure and deepwater seaports.


Concrete contents of this Action Plan are as follows:

<table>
<thead>
<tr>
<th><strong>Action Plan 2019-2023 of PIANC Japan</strong></th>
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<tbody>
<tr>
<td><strong>[International Action]</strong></td>
</tr>
<tr>
<td>• Contribute to the activities of PIANC through the active attendance at the AGA, Council meeting, Technical Commission meetings and the Congress</td>
</tr>
<tr>
<td>• Hold Kobe AGA 2019 effectively</td>
</tr>
<tr>
<td>➢ Hold Technical Seminar consisting of an Asian Session and a Technical Session</td>
</tr>
<tr>
<td>• Contribute to PIANC’s technical activities with Japanese port technology and promotion of international exchange of technology through active participation in Working Group activities of PIANC</td>
</tr>
<tr>
<td>• Achieve organisational enhancement of the Young Professionals of PIANC</td>
</tr>
<tr>
<td>➢ Collaborate with Kobe AGA 2019</td>
</tr>
<tr>
<td>➢ Support Young Professionals in attending the Biennial Technical Visit</td>
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<tr>
<td>• Strengthen the network by focusing on new member countries especially in Asia</td>
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<tr>
<td>➢ Organise a PIANC Seminar in Cambodia</td>
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<tr>
<td>➢ Assist Asian member countries such as Singapore and Vietnam in establishing their National Sections</td>
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<tr>
<td>➢ Continue seeking a way to discuss with Myanmar port community on a possible participation in PIANC Qualifying Membership</td>
</tr>
<tr>
<td><strong>[Domestic Action]</strong></td>
</tr>
<tr>
<td>• Hold Annual meetings of PIANC Japan (i.e. Annual General Assembly, Board Meeting, Annual Report Meeting, Planning Committee meeting)</td>
</tr>
<tr>
<td>• Promote information exchange among PIANC Japan members by holding the meeting of Japanese members of PIANC Commissions &amp; Working Groups</td>
</tr>
<tr>
<td>• Hold domestic YP-Com events</td>
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<tr>
<td>• Increase number of members of PIANC Japan, including Young Professionals</td>
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<tr>
<td><strong>[Dissemination of Information]</strong></td>
</tr>
<tr>
<td>• Disseminate information by the homepage of the PIANC Japan website and publications</td>
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Masami Yoneda
PIANC Japan Secretariat
12 PIANC KOREA IN 2019

12.1 The 8th Board of Directors and Regular General Meeting

On 15 March 2019, the PIANC Korea Board of Directors gathered for the 8th General Annual Meeting in Korea. PIANC Korea appointed new executives and board members for the Association. During the meeting, activity plans for each committee were discussed. President Kang announced that this year’s goal would be to promote PIANC in Korea, in order to increase participation and strengthen the international capacity. During this meeting, Mr Kim Hyun Dong was appointed Secretary-General of PIANC Korea.

12.2 Committee Chair Meeting

PIANC Korea’s Chair of InCom, MarCom, RecCom, YP-Com and Secretary-General gathered in Gangnam, Seoul, Korea on 5 July 2019 to discuss the activity plans and to organise PIANC events in Korea.

12.3 MarCom WG 211 – ‘Guidelines for the Design of Fender Systems Meeting with Korean Shipbuilders’

On 18 June 2019 in Lotte Hotel Seoul, Korea, 11 WG 211-members were invited to Korea to have a meeting with PIANC Korea and the Korean shipbuilding companies Samsung, Daewoo and Hyundai.
12.4 Expert Forum for Revitalising Gyeongin ARA Waterway in Korea

On 13 August 2019, PIANC Korea and Congressman Song Young-gil organised an expert forum to discuss the way to revitalise the Gyeongin ARA waterway in the Gyeongin ARA Marina in Korea. PIANC Korea invited the experts from the Ministry of Oceans and Fisheries, the Ministry of Environment, the Ministry of Land, Infrastructure and Transport, K-Water, the Korea Coast Guard and the Seoul Metropolitan Government. They discussed ways to revitalise the Gyeongin ARA Waterway.

12.5 Open Forum for Revitalising the Gyeongin ARA Waterway in Korea

On 1 December 2019, PIANC Korea organised an open forum with Congressman Song Young-gil in the Hyundai cruise. PIANC Korea invited local residents and experts to have a local residents' discussion on revitalising the Gyeongin Ara Waterway and reestablishing its function.

Hyun Dong Kim
Secretary of PIANC Korea
13 PIANC NETHERLANDS IN 2019

At the beginning of 2020, the Dutch Section consisted of 155 members, among which:

![Chart showing membership categories](chart.png)

The Dutch Section organised multiple events and excursions in 2019. There were three events with presentations and drinks, three excursions and a maritime pubquiz for young professionals. The excursion to the lock of Terneuzen was organised together with PIANC Belgium. The sailing tour to the newest part of the Netherlands, the Markerwadden, was organised together with KIVI.

In 2019, the Dutch Section lost two valued Honorary Members. At the beginning of the year, Cees van der Burgt passed away at the age of 93. He was active as the Secretary and First Delegate of the Dutch Section in the 70's and 80's and proposed the Permanent Technical Commissions we know well today. He became an Honorary Member in 1988 and stayed active for a long time. At the end of the year, Hugo Velsink passed away at the age of 89. Hugo was very active as a member of the predecessor of CoCom in the 90's. He is also credited with the design and construction of the first big commercial port of Iran.

On 13 February, PIANC NL YP and PIANC NL organised a theme day on sea locks, with a specific focus on the sea locks IJmuiden and Terneuzen which are currently under construction. The afternoon was hosted at Boskalis headquarters in Papendrecht. Presentations held at the PIANC World Congress in 2018 were given, as well as experiences from the construction of sea locks. Also, an update was given on Working Group 206 on the Study of Locks. To give everyone the opportunity to catch up and network, the afternoon ended with drinks and a nice dinner. With an attendance of approximately 70 people it was a great success!

After PIANC-SMART Rivers 2019, several Dutch members presented their abstracts to the Dutch public at Sweco in De Bilt. Several topics were discussed, including Navigation with Nature, Optimisation of Vessel Class for Container Transport and Digitalisation of Inland Waterways. Finally, Richard Daniel gave a book presentation about Lock Gates and Other Closures in Hydraulic Projects which received excellent reviews from Phillipe Rigo, Chairman of InCom.

On 27 March, PIANC NL YP and the Port of Rotterdam authority organised a site visit to the Maasvlakte area in the Port of Rotterdam. Here, a large-scale oil terminal is currently under construction, consisting of a 1.2-km deepsea quay wall, an inland barge terminal for 9 barges and a 180,000-m² storage area.

The visit consisted of presentations and a tour around the construction site. The timing of the visit was great, as many of the building stages could be witnessed and the terminal taking shape both at the land side and waterfront. The visit ended with drinks at the site office. Among the attendees were YP’s from engineering companies, dredging companies, Port Authorities and
students. With 25 participants from all over the Netherlands and Belgium and an inspiring programme, it was a day to remember.

On a cold but sunny Friday afternoon, on 12 April, PIANC NL YP, together with KIVI Bouw & Waterbouw, organised a boat trip to two innovative projects on the Markermeer: the sandy reinforcement of the Houtribdijk and the Markerwadden.

The trip started in Lelystad on the coaster ‘Abel Tasman’. Below decks, presentations were given on the sandy reinforcement of the Houtribdijk, a world’s first to design dyke reinforcement with sand in a lake environment. After these presentations, the Houtribdijk was admired from the upper deck and the sails were set towards the Markerwadden with the help of all 70 members of PIANC and KIVI. While sailing towards the construction site of Boskalis ‘Markerwadden’, presentations were given about upgrading the water quality of the Markermeer by building of these new islands in the Markermeer with soft materials.

On 26 September, the yearly event hosted by Young PIANC NL took place: The Working Group Evening. As this evening is organised in Delft, this is an excellent opportunity for students to join and get to know PIANC. Two presentations on WG’s that published their reports last year were given by YP’s, in which they also shared their experience on being part of a WG:

- WG 166 – ‘Inflatable Barriers in Hydraulic Engineering’ by Peter Jansen (RWS)
- WG 159 – ‘Renewables and Energy Efficiency for Maritime Ports’ by Alex Ruijs (RHDHV)

The presentations were very interesting and vivid discussions arose with the audience. After the presentations and discussions, there was plenty of time to enjoy some drinks and to socialise.

Young PIANC NL finished off the year with a great networking event on 29 November with maritime partners organising the first edition of the Maritime Pubquiz. An enthusiastic group of 80 young professionals from Boskalis, Van Oord, Damen, Royal HaskoningDHV, Damen, KIVI and PIANC crushed their brains and pumped up their maritime knowledge in a bar in Rotterdam. Teams were mixed YP’s from different companies enabling maximum networking (and knowledge). After the pubquiz itself, the DJ started his music and dancing lasted till closure of the venue.

It was a great event and one to repeat in the next years!

For more information, visit www.pianc.nl or send an email to sec-pianc@deltasres.nl.

Remi van der Wijk
Secretary of PIANC Netherlands
14 PIANC NORWAY IN 2019

2019 was indeed a very active and eventful year for the Norwegian Section of PIANC, not in the least thanks to the active participation at seminars and technical events organised by the National Section. Memberships are fairly stable, with a slight increase after our General Assembly in November. A main focus for PIANC Norway to increase recruitment towards disciplines like research and education. The challenge in Norway is still recruiting more students and strengthening the YP-Section. This is also emphasised in our Strategic Plan for the next three years.

14.1 PIANC AGA 2019 in Kobe – Japan, 3-7 June 2019

Norway has a strong and active group of engineers in PIANC, with 10 delegates in the AGA. Many members experience the benefit of attending international events. Not in the least due to the possibility to meet with highly skilled colleges and exchange knowledge. In addition, it gives our active members the possibility of networking and building personal relationships with other members.

The AGA in 2019 took place in Kobe, Japan, on 4-7 June. PIANC Norway lined up with 13 participants, including 7 delegates at the AGA. The event was superbly run by the Japanese Section of PIANC.

Delegates and other participants combined the AGA with other professional meetings, like meetings with manufacturers of wharf outfitting and pullers. The representatives did also get the opportunity to visit the fish marked in Tokyo, as well as private tours around Honshu.

PIANC Norway would like to express its sincere thanks to PIANC Japan as the host and organiser of the AGA 2019. We look forward to continuing the good co-operation with our friends in Japan.

Visit at fender manufacturer Shibata, pressure test of fender

Mr Lundestad checks the view from the submarine SS-574

Delegates and companions have dinner after a long day at the conference
Enjoying a memorable dinner with our hosts in Kobe

14.2 NordPIANC in Hirtshals, Danmark

NordPIANC 2019 took place in Hirtshals, Denmark. NordPIANC was hosted by the Danish Section of PIANC in mid-September. PIANC Norway congratulates its Danish friends on a very successful event with an historically good participation. The conference had wide participation from countries in northern Europe, as well as from all Nordic countries. We were also very pleased to meet both the Secretary-General and the President of PIANC, representing our Secretariat in Brussels.

Norway participated with a series of presentations during the conference.

14.3 25th Workshop on Dredging and Surveying, 22-24 May 2019, Bergen

The Workshop on Dredging and Surveying is a confidential platform to meet, to discuss and to exchange knowledge for representatives of agencies responsible for port operations, fairway and harbour management, dredging and surveying and research activities.

PIANC Norway, in co-operation with the Port of Bergen, Port of Borg and the Norwegian Coastal Administration, hosted the annual two-day event.
14.4 Technical Seminar 2019

In 2019, PIANC Norway emphasised its ambition to increase the domestic activities, with more frequent seminars and technical excursions. The spring seminar focused on challenges dealing with concrete in marine environment. The workshop in connection with the seminar, was a co-operation between the Port of Narvik Havn and the Arctic University of Norway. Our dedicated member Boy-Arne Buyle teaches at UiT and adressed several topics related to the PIANC WG 162 and the implementation of concrete works in water and cold climate. Mr Buyle chaired this Working Group, together with Professor Gjørv.

Lecture by Boy-Arne Buyle.

14.5 Annual Assembly 2019 and Technical Seminar

PIANC Norway organised a national technical seminar in connection with the annual meeting. Participants came from all parts of Norway and represented private entreprises, consultants and civil services. The presentations related to several topics such as port-planning, quay structures and maritime infrastructure. For PIANC Norway, this was also an opportunity to increase its membership base. The seminar was a great success.

Technical seminar in connection with this year's annual assembly. PIANC Norway President Roar Johansen and Arne Lothe from Norconsult.

14.6 YP-Activities in 2019

The annual Coastal Engineering Day was the highlight of the year for YP-Com Norway.

With 45 young attendees, of which roughly half from the industry and half from university, the event was a good blend of interesting presentations and excellent mingling opportunities.

The presentations clearly showed that Norway’s young professionals within the field of coastal engineering are leading the way when it comes to digitalisation. With presentations on the use of artificial intelligence, digital twins and advanced numerical models, students and young professionals alike were impressed and inspired about the possibilities for the years to come. We look forward to what 2020 will bring!
The Coastal Engineering Day was the highlight of the year for YP-Com Norway.

Oslo, the Venue of the AGA 2021

Fridtjof Wangsvik
First Delegate of PIANC Norway
15  PIANC SOUTH AFRICA IN 2019

Within the context of the South African landscape, 2019 has had its fair share of trials and tribulations. Nonetheless, the show must go on so it is with pride that we can say the planning for hosting the PIANC Congress in 2022 in Cape Town is well underway.

Port and coastal sector players continue to be occupied with good and challenging work across the board thereby providing much-needed job opportunities. However, more has to be done on this front to improve our national challenges.

Water and electricity resilience remains a challenge for many parts of South Africa and this will continue to be a focus area.

The PIANC South African National Section has had a reasonably successful year with some exciting prospects for the near future. So, here is some news from our National Section.

15.1 National Section

Membership has not changed significantly from previous years and remains healthy. At present, the National Section has 32 members as compared to 33 in the previous year. YP’s account for almost a third of this member list— an important sustainability achievement. There are no Corporate Members within our National Section.

The National Section has met twice during the course of the year with good attendance figures. This was facilitated by the use of technology (video conferencing facilities) to link different parts of the country for the meetings. These meetings continue to stimulate robust discussion.

There have been some changes to the PIANC South Africa structure due to the retirement of Dorian Bilse. Magenthran Ruthenavelu (TNPA Deputy Chief Engineer) was voted in as First Delegate on a temporary basis until the TNPA Chief Engineer is appointed. He has vacated the position of Secretariat which has now been filled by Marisa Ackhurst. The Treasurer, Dr. Andre Van Tonder, has submitted his resignation from this position mainly due to his remote location and wanting to allow someone else to play a role as we move towards Congress 2022. Andre has made himself available to continue in an acting capacity, until a successor has been appointed.

The National Section is supported by the following Office Bearers:

- First Delegate – Mr Magenthran Ruthenavelu
- Treasurer – Dr Andre van Tonder (Acting)
- Vice-Chairman – Mr Keith Mackie
- Secretariat – Ms Marisa Ackhurst
- YPF Representative – Mr Kishan Tulsi
- CESA Representative – Dr Alan Wijnberg
- US Representative – Prof Koos Schoonees
- Linkage to SAICE Railways and Harbours – Mr Keith Mackie and Mr Arie Burggraaf

South Africa is getting ready to host the PIANC Congress in 2022. The LOC is meeting on a regular basis to plan for the event. PIANC Secretary-General Mr Van Cappellen and PIANC Vice-President Mr Lawson met with the LOC during the second half of the year to share their knowledge and experience in hosting such events. The LOC received invaluable information during this visit and would like to thank PIANC HQ.

In 2019, South Africa was represented by Marisa Ackhurst at the PIANC AGA held in Kobe. Thank you to PIANC HQ for making this possible. It was a once-in-a-lifetime experience.
15.2 Young Professionals

The YP-group, under the leadership of Mr Kishan Tulsi, had a fairly quiet year, but is aiming to have an eventful year in 2020.

15.3 Involvement of Members in Working Groups

Ms Marli Geldenhuys was a YP-member in PIANC WG 178. The WG-activities have concluded and WG 178 has been published. The report is available on the PIANC website for member downloading.

Ms Marisa Ackhurst is a Corresponding Member of WG 200 on ‘Design and Assessment of Marine SPM and MPM Facilities’. On 30 January 2020, the draft WG 200 document was presented at the InCom meeting in Brussels.

Mr Craig Johnson is a member of WG 194 on ‘Early Involvement of Contractors in Infrastructure Projects’. The report drafting stage is in progress. A final draft of the guideline was planned for late March/early April 2020, with the next Working Group meeting to be held in Barcelona.

15.4 Acknowledgements

The National Section owes much gratitude to Ms Annamarie Zeelie for her time and effort in supporting the local PIANC activities – thank you kindly!

Marisa Ackhurst
Secretary of PIANC South Africa
16.1 Technical Session: Presentation of the ‘Repair Guideline for Concrete Structures in Marine Environment’

Working Group CIP-GT04 – 22 January 2019

The national Working Group CIP-GT04 has been working during the last two years on a new publication focused on repairing techniques for concrete structures in marine environment. 16 professionals were members of the WG, representing several organisations, such as Puertos del Estado, Port Authorities, laboratories and construction and chemical companies.

The final version of the document was published and presented in a specific Workshop that took place on 22 January 2019 at the Puertos del Estado Headquarters in Madrid, organised by the Port Engineering Committee. Finally, 115 professionals from different sectors attended the event. The technical programme of the Workshop included 4 presentations with topics such as: concrete pathologies, inspection techniques, criteria and technical solutions in repair projects and practical case studies.
16.2 Technical Workshop on Port Management

12 March 2019

The technical session was organised by the Port Management Committee and the National Group of Young Professionals.

The programme included 6 presentations focusing on strategic planning, port services, port competitiveness and several case studies on Port Authorities, as part of the National Port System. The event was attended by 80 professionals. The video of the technical session was uploaded to website www.atpyc.com.

Members of the WG CIP-GT04

L-F: Mr Antonio Gómez, Mr Gonzalo Baciero, Mr Ignacio de la Peña, Mr Rafael Escutia, Mr Macario Fernández-Alonso (Chairman of the Committee), Mr Jorge Nasarre and Mr Jorge Martín Vivas
16.3 Annual National Assembly 2019 of the Spanish Section

12 June 2019

The Spanish Annual General Assembly took place at the Puertos del Estado Headquarters in Madrid on 12 June 2019.

The most important points on the agenda were the following:

- Report 2018 activities of the National Section (President and Secretary)
- Annual fees for 2020
- Budget approval
- Report of activities: PIANC Commissions and National Technical Committees
- Report of the activities of the National YP-Com
- PYCture Award 2019
- Modesto Vigueras Award 2019
- Elections to Board of Directors

16.4 Elections to the Board of Directors of the Spanish Section

President: Mr Manuel Arana Burgos
Vocals: Mr Rafael Aznar Alonso
Mrs Sara Calvo Fernández
Mr Rafael Escutia Celda
Mr Francisco Esteban Lefler
Mr Macario Fernández-Alonso Trueba
Mr Gregorio Gómez Pina
Mrs Noelia González Patiño
Mrs Ana Lope Carvajal
Mr Alfonso Peña López-Pazo
Mr Miguel Vázquez Romero

L-R: Mr Francisco Esteban Lefler and Mr David Gallach (Modesto Vigueras Award 2019)
16.5 XVI Technical Sessions of Young Professionals of Mahón (Menorca)

3-4 October 2019

The Port of Mahon is one of the most incredible shipping enclaves in the Mediterranean, thanks to its unusual geographical characteristics, uniqueness and outstanding beauty.

The programme included 21 presentations on various topics, focusing on port and coastal engineering: infrastructure, climate change, blue economy, use of drones and port services. In addition, a technical tour was organised by the Baleares Port Authority. The event was attended by 80 professionals.

This encounter, celebrating this year the XVIth edition, was consolidated as one of the most important meetings of the Young Professionals inside the maritime industry.
16.6 Technical Workshop: Environmental Sustainability and Port Management (Huelva)

8-9 October 2019

The ‘I Workshop on Environmental Sustainability and Port Management’ was organised by the Port Authority of Huelva in collaboration with Puertos del Estado and the National Association of Ports and Coasts, with the outstanding presence of PIANC.

This conference was attended by 200 professionals from the port and environmental sector, different entities, organisations and administrations. There were more than 20 speakers with recognised experience in the port and environmental sector at the national, European and international level: members of the Port Authority of the Port of Rotterdam, CEDA and EnviCom, represented by its Chairman Todd Bridges.

During the workshop, topics of interest and future trends in environmental sustainability were exposed applied to port Management: current and future regulatory aspects; working with nature; environmental aspects linked to dredging, infrastructure, port operation, management of the Public Port Domain, etc.; technological developments applied to environmental management in ports; the keys to integration and compatibility between conservation of ecological values and port development; and improvement of environmental performance in the Port Community.

16.7 Mooring and Berthing Equipment Technical Workshop. Puertos del Estado Madrid

5 November 2019

On 5 November, a workshop about mooring and berthing equipment took place in Puertos del Estado, Madrid. It was organised by the National Association of Ports and Coasts and attended by 90 people.

During the workshop, several topics were treated, such as the experience of the Port Authority of Valencia and Baleares, the necessities of terminal operators for quay wall construction, dynamic
analysis of berthing ships, dynamic mooring system, automated mooring systems, systems optimisation of fenders and berthing aid system.

16.8 Organisation of the VIIIth National Congress

Probably the most important effort of the Spanish National Section during 2020 will be focused on the first steps for the organisation of the VIIIth National Congress in Cartagena (21-23 October 2020).

The selection criteria for papers and presentations will be based on innovation and news technologies:

- Infrastructures adaptation to new technologies
- New materials and circular economy
- Digital solutions applied to ports
- Sustainability, contingencies and climate change
- Automation and efficiency
- Marine field rehabilitation
- Synergies and collaborative developments
- Construction processes innovative
- Mobility and synchronising

Information and registration available at: https://atpyc2020.com/

Manuel Arana Burgos
President of PIANC Spain
In March, the Swedish Section of PIANC held its annual meeting at the Port of Gothenburg’s office. In addition to usual agenda during the meeting, Mr Mattias Sandell presented an overview of the activities of the MarCom.

The NordPIANC meeting was held in Hirtshals, Denmark in September. The Swedish Section offered its members an organised trip from Gothenburg to Hirtshals to participate in the meeting. About twenty Swedish members took the opportunity to visit Hirtshals and enjoyed the hospitality and a well-organised event by our Danish colleagues.

In October, during the MarCom meeting in Stockholm, a few of the younger members of the Swedish Section met with young professionals from the UK, Belgium and Finland to discuss and gain insight of their National Sections of young professionals.

In November, a technical visit to the Swedish Maritime Administration was organised. During the day, professionals gave lectures on subjects such as management and operation of fairways, hydrographic information and products, icebreaking and current infrastructure projects.
18  PIANC UK IN 2019

18.1 PIANC UK Committee Members in 2019

Greg Haigh – Chairman
Chris Frith – Vice-Chairman, Deputy Treasurer
Peter Hunter – MarCom Representative
Ian White – Government First Delegate, FinCom Chairman and Treasurer
Jan Brooke – EnviCom Representative/PTG CC Rep
Jim Stirling – InCom Representative
Tim Beckett – RecCom Representative
Christian de Meyer – ProCom Representative
Heather Heuston – YP-Com Representative

Chris Boysons  Richard Wakelin
Paul Datson    David Byrne
Howard Richings Mike Thorn
John Lovell    Nigel Bodell
Ian Gillespie  Christian De Meyer
Stuart Byrne   Tim Beckett
Borbala Trifunovics Marine Perret
John Berry     Laure Herbert
Ian Cruickshank Steve Osborn
Siobhan Vaughan Marta Mendizabel
William Evans  Mark McBride

18.2 UK Membership

The membership of PIANC UK has increased slightly over the past year. The current membership is as follows:

- 166 Individual Members comprising, 1 Honorary, 3 Life, 30 YP’s and 136 Full Individual Members
- 24 Corporate Members – 6 large, 18 small.

18.3 Committee

The UK Committee met five times in the course of the year and continued its focus on representation on international working groups and educational events in the UK. The Committee is committed ensuring that some of its events each year take place outside London and the south east. Following the successful seminars and site visits in Cardiff in 2015 and Bristol in 2017 (Hull in 2016 was less well attended), a seminar was held in Edinburgh in 2019 and a visit was organised to Aberdeen Harbour in May 2019. Plans are being developed for a visit and seminar away from London in 2020, possibly in Liverpool.
During the last year, the membership of the UK Committee has changed. At last year’s Annual General Meeting three candidates were appointed to the Committee, without the need for an election – Heather Armour of Jacobs, at the time of her election, and now Heather Houston of BAE Systems, Ian Dobson of Beckett Rankine at the time of his election and now of Byrne Looby and Dr Ed Rogers of Nash Maritime. Two of them are YP’s. I am grateful to all their companies for making their time available. They will serve for a period of four years as from November 2018. Howard Ritchings, formerly of the RNLI, has resigned from the committee and I thank him both for his contributions and for ensuring that an organisation as important as the RNLI was able to contribute its knowledge to PIANC’s international activities.

Eight members of the UK Committee are Young Professionals and just under 20 % of the Committee is female. Efforts to ensure that the UK Committee is more representative of the members and of the wider industry will continue. In particular, further representation from the ports and the construction industry would be welcome, as would a representative from the insurance industry.

During 2019, PIANC, in the UK and internationally, was threatened with legal action as a result of the use of copyrighted images in publications, and in presentations that were subsequently posted on the PIANC website. A considerable amount of time of a number of members of the UK Committee was required to resolve these issues satisfactorily. As a consequence, procedures have been put in place to ensure that images that are included in presentations that are posted on the PIANC UK website, and in documents are covered by a grant copyright to PIANC UK.

18.4 Working Groups and Commissions

PIANC International functions through its Commissions and the UK has representatives on all but one of them. Ian White chairs FinCom, Peter Hunter sits on MarCom, Jim Stirling on InCom, Jan Brooke on EnviCom, Tim Beckett on RecCom, Heather Houston on YP-Com and Christian de Meyer on ProCom. Richard Wakelen of the Canal & River Trust has attended some InCom commission meetings as Jim’s alternate. YP members also represent the UK on the Commissions, Michael Grace on MarCom and Ian Dobson on RecCom. The involvement of PIANC UK with PIANC International and the Working Groups is principally coordinated through these individuals and the entire UK Committee and the members would like to thank them, for their hard work over the last twelve months.

This year, the Committee would also like to make special mention of Jim Stirling’s contribution as our Commission Representative on InCom. Both during, and following, a successful career with British Waterways in Scotland, Jim has represented the UK National Section on InCom since 2011. On behalf of the UK membership of PIANC, it is appropriate to thank Jim for his major contribution.

PIANC UK’s status as an Associated Society of the ICE. In return, PIANC UK provides the intellectual content of an annual series of seminars, conferences and visits in relation to waterborne transport infrastructure, thereby partially fulfilling the ICE’s learned society function.
At the end of 2017, the ICE decided unilaterally to redefine the services it provided and, although this has not resulted in an increase in cost to PIANC UK in 2018 or 2019, it has resulted in fewer tasks being undertaken by the Secretariat and more having to be carried out by the members of the Committee. The Committee has not decided to put forward alternative proposals as to how to organise the Secretariat functions in the future to the AGM in 2019 but will keep this under review.

The death of two members has been reported during the last year:

- John Black formerly of the Port of London Authority
- Tony Bates founder of the Anthony Bates Partnership

The core function of PIANC International is the production of its well-respected technical reports by international Working Groups. Despite the relatively small size of PIANC UK, over forty members from the UK are involved with these Working Groups, some of them as Working Group chairmen. The UK Committee approves the appointment of UK representatives to join around ten Working Groups each year. In each case, two members are usually required – one with considerable knowledge of the subject and a Young Professional with an interest in the subject. Sometimes, additional corresponding members are also appointed. Taking part in a Working Group is an enjoyable and valuable experience, adding to the existing expertise of our many specialists and often providing the opportunity to visit state-of-the-art projects in other countries. It requires commitment of time by employers, for which PIANC UK is grateful, but establishing members of staff as world-experts in specific areas of maritime infrastructure has distinct advantages.

### 18.5 Seminars and Events

Four PIANC half-day or evening seminars, one lecture, one conference and two site visits were held during the year and these continue to be popular with members and guests:

- April: Seminar – ‘Maritime Engineering in Scotland’ – University of Edinburgh
- April: Visit – FloWave Ocean Energy Research Facility – University of Edinburgh
- May: Visit – South Harbour Development, VTS & Ship Simulator – Aberdeen Harbour

The UK’s YP Papers Competition was not run in 2019. The aim of this competition has been to maintain the UK’s historic record of submitting papers by YP’s from the UK to the international De Paepe-Willems Award. The Committee intends the competition to run again in 2020.
PIANC UK was represented by a delegation of four members at the PIANC Annual General Assembly (AGA) in Kobe in May 2019. The hospitality of the Japanese National Section was outstanding, facilitated by many generous commercial sponsors.

The next AGA in Bristol in the UK was scheduled on 19-21 May 2020 and a YP-event would be run alongside the AGA. Unfortunately, due to the Covid-19 pandemic, the AGA had to be postponed and it will now be organised in 2021. The UK Committee organising the event is being ably chaired by Nigel Bodell of Bodell Port Consultancy and the UK Committee wishes to record its thanks for his dedication and hard work. A number of companies have offered sponsorship but many more will be needed if we are to deliver an AGA that will stand close comparison with that in Japan.

The Annual General Meeting held in November at the ICE London, which was attended by the President, who made a presentation to those attending members on the future role of PIANC internationally and also to give guidance on the process and procedures for the selection and recruitment of Working Groups.

Ian White
First Delegate of PIANC UK
19 PIANC USA IN 2019

19.1 PIANC USA Leadership

The United States, a member of PIANC since 1902, is an active section in terms of international involvement, as well as its domestic activities and partnerships. The United States National Commission constitutes the governing body of the U.S. Section.

The 2019 U.S. National Section Leadership consisted of:

- Chair and First Delegate, The Honorable R.D. James, Assistant Secretary of the Army for Civil Works ASA(CW)
- President, Major General (MG) Scott Spellmon, U.S. Army Corps of Engineers’ Deputy Commanding General for Civil and Emergency Operations (DCG-CEO)
- Secretary, Rachel Grandpre, U.S. Army Corps of Engineers (USACE) – Institute for Water Resources (IWR)

The 8 members of the U.S. National Commission included:

- Commissioner and PIANC International Vice-President for the Americas Nicholas Pansic, Vice-President, Stantec
- Commissioner and PIANC International CoCom Co-Chair Edward Schmeltz, P.E., Retired, AECOM
- Commissioner Michael Leone, Retired, Director of MassPort
- Commissioner Jessica McIntyre, Project Engineer, Moffatt & Nichol
- Commissioner James Marino, President, Taylor Engineering, Inc.
- Commissioner Lillian Almodovar, Retired, US Army Corps of Engineers
- Commissioner Ron Coles, Principal, W. R. Coles and Associates
- Commissioner Jim Walker, Director of Navigation Policy and Legislation, American Association of Port Authorities (AAPA)

Additional support to the Commissioners was provided by:

- Treasurer – Joe Mantey (volunteer)
- Deputy Secretary – Brian Lee – U.S. Army Corps of Engineers – Institute for Water Resources

U.S. Representatives on the PIANC Executive Commission (ExCom) include:

- Environmental Commission (EnviCom) Chair – Todd Bridges, US Army Engineer Research and Development Center (ERDC)
- Past International Vice-President for the Americas of PIANC and current International CoCom Co-Chair – Ed Schmeltz, AECOM
- Current PIANC International Vice-President for the Americas Nicholas Pansic, Vice-President, Stantec
- Chair of the Young Professional Commission (YP-Com) Andy Thomas (Ports & Maritime Consultant at HDR)
Recent Leadership Updates

Jim Walker was inducted as one of the 8 commissioners on the U.S. Board of Commissioners for PIANC USA in 2019. Currently, he is the Director of Navigation Policy and Legislation American Association of Port Authorities (AAPA) where he is responsible for addressing waterside infrastructure issues and relevant legislative and regulatory matters.

Jim will be filling in the vacancy left by Ms Helen Brohl upon her term expiring on the Board of Commissioners in late 2018.

Current U.S. Commissioner Nick Pansic (Stantec) was appointed as PIANC International Vice-President for the Americas on the Executive Commission (ExCom) at the 2019 Annual General Assembly in Kobe, Japan. He will be filling the role vacated by Ed Schmeltz (also still a US Commissioner).

At the PORTS® ‘19 Conference Awards Luncheon, PIANC U.S. Commissioner Mr Ed Schmeltz was presented ACOPNE’s inaugural Outstanding Practitioner in Coastal, Ocean, Port and Navigation Engineering Award in recognition for his all work and contributions in the field over his outstanding career.

PIANC USA Leaders Honoured at the USACE Institute for Water Resources 50th Anniversary Celebration

The U.S. Army Corps of Engineers (USACE) Institute for Water Resources (IWR) held its 50th year anniversary of service to the United States on 11 April 2019. At the ceremony, there were various awards and honours to past and current IWR employees. Current PIANC U.S. Commissioner Lillian Almodovar was inducted into the IWR Gallery of Distinguished Civilian Employees. Former PIANC USA Secretary Anne Cann was honoured with an engraved silver PIANC coin for her years of service as PIANC USA Secretary and presented a plaque for being honoured with the IWR 2017 Special Act of the year for the work of her and former PIANC USA Deputy Secretary Emily Vuxton on the 2017 PIANC-SMART Rivers Conference in Pittsburgh, PA.
19.2 U.S. Representatives on Technical Working Groups

The following Technical Working Group reports were published in 2019:

- MarCom Working Group 159 – ‘Renewables and Energy Efficiency for Maritime Ports’ (Rep: Stanley White)
- MarCom Working Group 184 – ‘Design Principles for Dry Bulk Marine Terminals’ (Rep: Geraldo Araujo)
- MarCom Working Group 185 – ‘Ports on Greenfield Sites – Guidelines for Site Selection and Masterplanning’ (Reps: Ron Coles, Fernando Gonzalez Chana and Ed Backlund)
- EnviCom Working Group 175 – ‘A Practical Guide to Environmental Risk Management (ERM) for Navigation Infrastructure Projects’ (Reps: Burton Suedel, John Lally and David Moore)
- EnviCom Working Group 188 – ‘Carbon Management for Port and Navigation Infrastructure’ (Reps: Doug Daugherty, Matthew Bates and Talmor Meir)

New Working Groups formed in 2019 including:

- EnviCom Working Group 218 – ‘The Implications of Invasive Alien Species for Waterborne Transport Infrastructure’ (Reps: Dr. Safra Altman, Dr. Nathan Harms and Aaron Schad)
- RecCom Working Group 221 – ‘Design Guidelines for Recreational Boating Slipways’ (Rep: Shaun McFarlane)
- RecCom Working Group 222 – ‘Design Guidelines for Floating Breakwaters in Marinas’ (Reps: Jack Cox, Claudio Fassardi and Manuel G. Castano)
- RecCom Working Group 223 – ‘Meaningful Inclusion of Fish Communities in Recreational Marinas – Guidelines for Planning’ (Rep: Shaun McFarlane)
PIANC USA at Spring COPRI Ports & Harbors Meeting – Port of Houston 4-5 April 2019

On 4-5 April, Rachel Grandpre, PIANC USA Secretary, presented as the PIANC liaison at the Spring American Society of Civil Engineers (ASCE) Coasts, Oceans, Ports, and Rivers Institute (COPRI) Ports & Harbors Meeting and Ports 2019 Conference (which is co-hosted by ASCE COPRI and PIANC USA) Planning committee meetings in Houston, TX. Rachel also attended the Ports and Harbors Seal Level Rise Subcommittee. On Friday afternoon, the Committee attended a technical tour of the Port of Houston Bayport Container Terminal.
PIANC USA Sponsors Women’s Aquatic Network (WAN) Marine Transportation System Reception

On Thursday evening on 23 May 2019, PIANC USA helped sponsor the Women’s Aquatic Network (WAN) Marine Transportation System Reception at the Capital Yacht Club in Washington, DC, which was attended by PIANC USA Secretary Rachel Grandpre. This reception was an exceptional networking opportunity to interact with prominent women that work within the maritime industry. Ms Grandpre is photographed below with some well-known female pioneers of PIANC USA, including the first woman International chair of the Inland Commission (InCom) Sandra Knight (currently the President and founder of WaterWonks LLC and has also held prominent positions in the Federal service at FEMA, NOAA, and USACE) and former PIANC USA Commissioner Helen Brohl (Executive Director, US Committee on the Marine Transportation System).

PIANC USA at the 2019 AGA in Kobe, Japan

During the week of 3-8 June 2019, the acting First Delegate of the US Section of PIANC Ryan Fisher (Principal Deputy ASA-CW) as well as several members of the Board of Commissioners for PIANC USA including Jim Walker, Lillian Almodovar, and Nick Pansic attended the AGA in Kobe, Japan. In addition, the U.S. delegation included PIANC USA Secretary Rachel Grandpre; and ExCom representatives from the U.S. including EnviCom Chair Todd Bridges, RecCom Chair Esteban Blondi and YP-Com Co-Chair Andrew Thomas.

L-R: Damon Lilly (Programs Director for the Pacific Ocean Division (POD), U.S. Army Corps of Engineers (USACE)), Ryan A. Fisher (Principal Deputy Assistant Secretary of the Army – Civil Works (ASA-CW) and acting First Delegate of PIANC USA), Rachel Grandpre (USACE Institute for Water Resources and Secretary of PIANC USA), Jim Walker (American Association of Port Authorities (AAPA) and US Commissioner), Darren Lingle (Special Assistant to the ASA-CW), Todd Bridges (USACE Engineer Research and Development Center and International Chair of the PIANC Environmental Commission)
At the 4 June PIANC National Sections’ Secretaries meeting, Ms Rachel Grandpre, Secretary of PIANC USA, delivered a presentation highlighting PIANC activities of the U.S. National Section since the 2018 PIANC World Congress.

Ryan A. Fisher, Principal Deputy Assistant Secretary of the Army - Civil Works (PDASA-CW) and acting First Delegate of PIANC USA gave a presentation on the PIANC USA Action Plan at the 81st Council Meeting on the afternoon of 4 June.

PIANC U.S. Delegation at the 2019 AGA in Kobe

Recreational Navigation Commission (RecCom) Chair Esteban Biondi presented the Annual RecCom report to the General Assembly on 5 June.

YP-Com Chair Andrew Thomas presented the Best Performing YP-Com Section Award and provided the Annual YP-Com report to the General Assembly.

Dr. Jane Smith of the US Army Corps of Engineers Engineer Research and Development Center (ERDC) presented as an invited speaker at the Technical Seminar following the AGA on 6 June with a presentation titled ‘Disaster Prevention and Mitigation Efforts Storm Surge in the US’.
PIANC USA Held its First Live Webinar on EnviCom WG 176: Working with Nature on 26 August 2019

PIANC USA hosted its first working group webinar on EnviCom WG 176: Working with Nature on 26 August 2019. Dr. Victor Magar of Ramboll, who served as PIANC USA’s Primary Representative on WG 176 as well as the Working Group Chair on WG 176, presented findings and other important information from WG 176 as well as answer any questions from over 50 participants. A recording of the webinar and future webinars can be found on the PIANC USA YouTube Channel at: https://pianc.us/pianc-usa-youtube/. These webinars are planned to be held at least 4 times per year and will rotate around the main technical commissions of PIANC: Environmental, Recreational Navigation, Maritime Navigation, and Inland Navigation.

PIANC USA at PORTS® ’19 Conference in Pittsburgh, PA

The PORTS® ’19 Conference, which had the theme ‘Connect. Innovate. Transform’ was the 15th in a series of international port and harbour development specialty conferences. PORTS ’19 is a collaboration of Coasts, Oceans, Ports, and Rivers Institute’s (COPRI) and PIANC USA. This year the PORTS conference was held in Pittsburgh, PA in on 15-18 September 2019 and PIANC USA was well-represented at the event.

Throughout the conference, a number of PIANC USA members were active in leading and attending short courses; presenting at the technical sessions; and sharing about the unique mission of PIANC USA and PIANC. PIANC USA President MG Spellmon provided opening remarks at the start of the conference. In addition, PIANC USA also had a technical session that focused on MarCom updates from US Principle Representative Ron Heffron and an update on EnviCom Working Group 214 on ‘Beneficial Use of Dredged Materials’ from Donald Hayes of USACE ERDC. PIANC USA also had an exhibit booth at the conference as well. In conjunction with the PORTS® ’19 Conference, the PIANC USA Board of Commissioners also held a face-to-face meeting. Following the conference, Rachel Grandpre, PIANC USA Secretary presented as the PIANC liaison at the fall COPRI Ports and Harbours Committee Meeting. At the Ports and Harbours Committee meeting it was announced that the next PORTS® conference will be taking place on 18-21 September 2022 in Honolulu, HI, so please mark your calendars.

PIANC USA President Major General Scott Spellmon, Deputy Commanding General for Civil and Emergency Operations for the US Army Corps of Engineers giving welcoming remarks at the PORTS® ’19 Conference. Photo taken by Robert Levy Photography.
The US Board of Commissioners for PIANC held their semiannual face-to-face meeting and a joint lunch with the Board of ASCE COPRI at the start of the PORTS® '19 Conference. (L-R: Commissioner James Marino, Commissioner Jim Walker, Commissioner Lillian Almodovar, U.S. Secretary Rachel Grandpre, Acting First Delegate for PIANC USA and Principal Deputy Assistant Secretary of the Army - Civil Works Ryan Fisher, Commissioner and International PIANC VP Nick Pansic, Commissioner Jessica McIntyre, PIANC USA President and Deputy Commanding General for Civil and Emergency Operations for the US Army Corps of Engineers MG Scott Spellmon, and Commissioner Ron Coles.

PIANC USA Secretary, Rachel Grandpre, and Deputy PIANC USA Secretary, Brian Lee, at PIANC USA’s table at the Ports 19 Conference speaking with conference attendees. Photo taken by Robert Levy Photography.

PIANC USA Principal Representative for MarCom, Ron Heffron of COWI (left), led two sessions providing an overview of active MarCom working groups moderated by PIANC Secretary Rachel Grandpre (right) as well another about PIANC's new guidelines for oil and gas marine terminal design and assessment. Photo taken by Robert Levy Photography.
Donald Hayes of ERDC was one of the course instructors for the PORTS® ’19 Conference short course: Dredging 101- Fundamentals of Dredging. In addition, Don Hayes gave a presentation at the PIANC Technical session at the conference providing an update on EnviCom WG 214 on the ‘Beneficial Use of Dredged Materials’. Photos taken by Robert Levy Photography.

Rebecca Gardner presented on new PIANC guidelines for managing environmental risks of navigation infrastructure projects from EnviCom WG 175.

In addition to moderating technical sessions and helping judge the Student presentations, US YP-Com Co-Chair Matt McCarty made a presentation on ‘Large-Scale Floating Wetlands for Urban Waterfronts’.

PIANC USA at the 2019 PIANC-SMART Rivers Conference and PIANC Meetings in Lyon, France

PIANC USA leadership and many U.S. members attended the PIANC-SMART Rivers 2019 Conference in Lyon, France from 29 September to 3 October 2019. The first Delegate for the U.S. Section, the Honorable R.D. James (ASA-CW) was present along with PIANC USA Secretary Rachel Grandpre.
Mr Jose Sanchez (HQUSACE), Mr Brian Tetreault (ERDC), Dr. Rebekah Wilson (ERDC) and Dr. Burton Suedel participated in the PIANC Inland and Commission and Working Group meetings.

The PIANC Environmental Commission met with D. Todd Bridges (ERDC) chairing, Mr Edward Brauer (USACE St. Louis District) as Secretary, Dr. Burton Suedel (ERDC) as the US principal representative and Ms Grandpre as the young professional observer for EnviCom. Dr. Suedel also chaired the subordinate Working Group 175 (Environmental Risk Management) meeting and Dr. Al Cofrancesco (ERDC) served as chair of the Working Group 195 (Environmental Systems) meeting.

There were many presentations from U.S. PIANC Members during the conference including:

- ‘Engineering With Nature for Rivers and Inland Water Infrastructure’ – Todd Bridges (ERDC)
- ‘Guidance for Thin Layer Placement of Dredged Material’ – Tim Welp (ERDC)
- ‘Mississippi Lock and Dam 21 Rehabilitation vs. Replacement for Submergible Tainter Gate’ – Chris Wilcox (Tetratech)
- ‘Strategic Placement of Dredged Material from Riverine Environments for Restoring Marsh Habitat’ – Burton Suedel (ERDC)
- ‘Enhancing Accessibility and Usability of Automatic Identification System (AIS) Data’ – Supriti Jaya Ghosh (U.S. Committee on the Marine Transportation System (CMTS))
- ‘Reducing the Risk of Asian Carp Establishment in the Great Lakes: Challenges with Adapting Waterways to Protect Ecosystems’ – Kevin Knight (USACE IWR) and Dena Abou-El-Seoud USACE Chicago District (LRC)
- ‘InCom WG 206 – Updating PIANC Locks Report: First Results’ – John Clarkson (RMC)
- ‘Sediment Transport Modeling and Morphodynamic Analysis of Navigation Improvement Designs on the Madeira River, Brazil’ – Calvin Creech (SAM, assigned to SOUTHCOM-Brazil)
- ‘InCom Working Group 192: Developments in the Automation and Remote Operation of Locks and Bridges’ – Albert Barnes (Tetratech)
Dr. Bridges giving a presentation about USACE's Engineering with Nature (EWN) initiative

Mr. R.D. James, ASA-CW engaged during the Q&A at the PIANC-SMART Rivers Conference technical presentations

Dr. Suedel presentation on the strategic placement of dredged material from riverine environments for restoring marsh habitat

Tim Welp USACE ERDC presenting on Guidance for Thin Layer Placement (TLP) of Dredged Material at the 2019 PIANC-SMART Rivers Conference

Kevin Knight USACE IWR and Dena Abou-El-Seoud giving a joint presentation on reducing the risk of Asian Carp establishment in the Great Lakes
19.4 PIANC USA 2019 Young Professional Commission (YP-Com Events)

PIANC YP-Com Visits Portside Pier

On 22 March 2019, a group of young professionals (YP’s) toured the construction site of Portside Pier in downtown San Diego, CA. Portside Pier is a $20 million project and consists of a two-story multi-restaurant development that will feature a variety of dining options.

The group of 18 YP's came from different industries (bridge, buildings, and construction). The event was a joint technical tour organized by PIANC USA Young Professional Commission (YP-Com) Representatives and the Younger Member Forum of the ASCE-San Diego Section. PIANC USA’s YP-Com Co-Chair Andrea Viteri of Moffatt & Nichol led the tour as well as shared PIANC’s involvement in the marine industry.

PIANC YP-Com at Fort Mifflin USACE Philadelphia Dredging Operation

On 18 April 2019, PIANC USA Young Professionals Committee organised a technical tour of the Fort Mifflin dredging operations in Philadelphia, PA. Representatives from United States Army Corps of Engineers (USACE) Philadelphia District provided a guided tour to a group of 30 participants of the field office, piers, three cell dredge material disposal area, and the 300' hopper dredge McFarland. Afterwards, there was a happy hour sponsored by Weeks Marine.

PIANC USA's YP-Com Co-Chair Matt McCarty of McLaren Engineering Group, who was the lead in organizing the event, shared about PIANC and PIANC's mission to expert guidance, recommendations and technical advice in design, development and maintenance of ports, waterways and coastal areas.
PIANC USA Young Professionals at first Biennial Technical Visit in Asia

In June 2019, PIANC USA YP-Com (Matthew McCarty (PIANC USA YP-Com Co-Chair), Andrea Viteri (PIANC USA YP-Com Co-Chair), Nina Piccoli (America Vice-Chair), and Andrew Thomas (PIANC International YP-Com Chair)) attended the YP-Com 7th Biennial Technical Visit (BTV) in Singapore with over 20 nationalities from all over the world.
Singapore is considered a global hub port and the world's beating heart of the Port & Maritime industry. Every 2-3 minutes a ship arrives or leaves. It is ranked the second largest port in all over the world, however, their vision as a global maritime leader does not stop there. The U.S. Section of PIANC hosted the biennial PIANC-SMART Rivers Conference on 18-21 September 2017 in Pittsburgh, PA. It was a major success, with nearly 300 U.S. and international participants, a robust technical program with 125 presentations, 3 keynote addresses, a poster session, short courses, exhibit hall, technology tour at Carnegie Mellon’s Robotics Institute, and a cruise through Allegheny Lock 2.

The new Tuas Terminal is under construction and is expected to be the largest container terminal in the world by 2040, with container capacity of 65 million TEUs. In comparison, this capacity is about 4 times larger than the total combined of Port of Los Angeles and Port of Long Beach.

Throughout the week, there were a series of presentations related to the maritime sector such as breakwater and quay wall design, rock revetments, port planning and innovations in maritime design. Furthermore, there were site visits that included the Port of Jurong, the Singapore Maritime Gallery and Singapore’s Port Operations Control Center (POCC). The BTV ended with a field trip to Finger 2 of the Tuas Terminal-Phase 1 project.

L-R: Matthew McCarty (PIANC USA YP-Com Co-Chair), Andrea Viteri (PIANC USA YP-Com Co-Chair), Nina Piccoli (America Vice-Chair), Andy Thomas (PIANC International YP-Com Chair)
## 19.5 Follow PIANC USA on Social Media

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Also please post, follow, and share our PIANC USA LinkedIn Groups:
- PIANC USA LinkedIn Group: [https://www.linkedin.com/groups/8587971/](https://www.linkedin.com/groups/8587971/)
- PIANC USA YP LinkedIn Group: [https://www.linkedin.com/groups/3075291/](https://www.linkedin.com/groups/3075291/)

**Contact PIANC USA:**

- Email: pianc@usace.army.mil
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*Rachel Grandpre*
*Secretary of PIANC USA*