NATIONAL SECTIONS & QUALIFYING MEMBERS
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1 PIANC ARGENTINA IN 2021

1.1 Authorities and Commission Members

- First Delegate: Raúl S. Escalante
- Secretary: Sebastián García
- RecCom: Esteban Biondi (Chair) & Claudio Fassardi
- MarCom: Carlos Ginés & Leandro Pitton
- InCom: Leonel Temer
- EnviCom: Gerardo Bessone
- Permanent Task Group on Climate Change (PTG CC): Gerardo Bessone
- YP-Com: Matías Palma (Delegate), Vincent Besson (Alternate Delegate), Sebastian Iglesias (Alternate Delegate), Virginia Sy (Americas Vice-President Supporter)

1.2 Participation in Working Groups

- WG 213 – ‘Guidelines for Marine Multi-Purpose Terminals’: Carlos Gines
- WG 224 – ‘Planning of Fishing Ports’: Pablo Arecco
- WG 231 – ‘Mooring Bollards and Hooks – Selection, Maintenance and Testing’: Jose Grau
- WG 237 – ‘Bottlenecks and Best Practices of Transport of Containers on Inland Waterways’: Ariel Savarese

1.3 Membership 2021

Argentina’s National Section currently has 86 members:

- 74 Individual Members (among them 41 YP’s)
- 12 Corporate Members

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1.4 Events

Despite constraints related to COVID-19, Argentina’s National Section managed to stay in contact throughout the year mainly by organising online seminars in collaboration with AADIP (Argentine Association of Port Engineers) and EGIP (Graduate School of Port Engineering – Buenos Aires University).

1.4.1 YP PIANC Argentina – YP PIANC Spain Webinars

The 2021 webinars organised by YP PIANC Argentina and YP PIANC Spain were held on three dates with different topics.

On 4 March 2021, the topic was about port dredging experiences. There were two speakers, the first one was Alfonso Peña Lopez-Pazo, infrastructure chief manager from the port of Huelva (Spain), and Gerardo Bessone, dredging and beaconing chief manager from the port of Bahia Blanca (Argentina).
Both commented the characteristics of the dredging works in their ports, as well as the taken environmental actions to avoid significant environmental impact.

In the second webinar, held on 29 June 2021, Nestor Alvarez (Argentina) exposed the port developing process around Puerto Rawson and Puerto Madryn, Argentina, since their first steps as fishing ports to the presently commercial activities. Secondly, Jordi Galofré (Spain), from the Coastal Service of Terragona, spoke about different aspects of coastal management in Spain and the effects caused by the climate change.

The last webinar, held on 3 November 2021, Florencia Velo (Argentina), from TREVI Argentina, exposed the about floating Concrete Plants in Port Construction. Finally, Jose Luis Garcia-Mochales (Spain), from the Port Authority of Bilbao, spoke about industrial construction of concrete caissons for quays.

The 3 events had a great attendance from Argentina, Spain, and other Latin American countries.

1.4.2 Bilateral Meeting: Engineering Bioceanic Corridor

On 4 June 2021, professionals of the port community were able to participate in the online event organised by the Engineering Faculty of University of Buenos Aires, the Graduate School of Port Engineering, and the Civil Works Department of the University of Santiago de Chile.

The seminar aimed to provide the exchange of professional and academic experiences between the two countries in topics related with ports, waterways, and maritime engineering. There were two speakers, Jose Luis Inglese from Argentina, who exposed about the underwater sanitary water outlet in Riachuelo, and Jose Aldunate from Chile, who share the current operation of the Port of San Antonio.

1.4.3 YP PIANC Argentina – YP PIANC Japan Webinar

On 14 (Argentina) and 15 (Japan) July 2021, professionals of the port community were able to participate in the PIANC YP-Com Webinar organised by the Young Professional groups of Argentina and Japan. After many years of close cooperation within the Young Professional Commission, special bonds were stretched between some members of both YP-groups. Consequently, this first meeting was a natural consequence of hard work and PIANC friendship among many colleagues.

This was the first meeting of many to come, and it is the beginning of exchanging knowledge, experiences and culture between both PIANC YP-groups from Asia and America. During the event, there were three speakers: first up was Sebastián Iglesias (Argentina), who spoke about the re-functioning and upgrading construction works of main the two piers in Puerto Madryn, Argentina. The second speaker was Soumaya Addou (Japan), who spoke about Marine Deep Cement Mixing (DCM) method using ICT and BIM/CIM technologies. The third and last speaker was Daiki Tsujio (Japan), who spoke about the preliminary study of Japanese port structural design and standard’s adaptation considering climate change. Lastly, Pablo Arecco (Argentina) and Hidenori Takahashi (Japan) talked about the relationship between the Argentine and Japanese YP groups during the last decade and possible future cooperation activities, highlighting possible technical seminars from Japanese experts.
and researchers in Argentina and opportunities for Japanese and Argentine YP’s in both countries for researching, doing internships and/or short-term exchanges.

Last but not least, it is important to highlight that the time zone difference of twelve hours was not an obstacle to have a great attendance due to the high commitment of all YP’s. The webinar was attended by more than forty participants mostly from both organising countries and enjoyable moments were experienced.

1.4.4 TU Delft & FIUBA EGIP Online Courses

After many years of close relationship between the Graduate School of Port Engineering (UBA), and TU Delft, three online seminars were organised in October 2021. The first two technical seminars were about ‘Ports & Waterways’ and ‘Coastal Structures’, lectured by Mark Van Koningsveld, Bas Hofland and others experienced professionals in the ports, waterways and coastal sector. In the third open seminar, Roel Nieuwenkamp, ambassador of the Kingdom of Netherlands in Argentina, Francisco Esteban Lefler, President of PIANC, and Alejandro Martinez, Dean of the Engineering Faculty of University of Buenos Aires, gave a closing speech for the seminars.

1.4.5 Technical Visit and Year-End Event

On 3 December 2021, PIANC Argentina and the Argentine Association of Port Engineers (AADIP) held the first on-site technical visit since the beginning of the COVID-19 pandemic. The visited terminal was ‘Terminales Rio de la Plata’, in the Port of Buenos Aires, and it counted with great attendance, from which most of the assistants were YP-members.

Followed by the technical visit, for the third consecutive year, the year-end event of the Argentine Association of Port Engineers (AADIP) was held in the ‘Escuela de Ciencias del Mar’ (Buenos Aires). The gathering started with a technical session lectured by Phd. Alejandra Gómez Paz, with the title ‘Dynamism of the Maritime Port Connectivity, Challenges in South America’, in which the regional connectivity challenges were exposed, considering the trade, the freight, the infrastructure, the new large container ships, the configuration of services and the business practices.

Then, following a still recent tradition, the 2021 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.

The event, which gathered almost 20 assistants, 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 2021 achievements and to wish the local section a flourishing 2022.
1.4.6  YP Meeting and Workshop

Following the year-end event, and seizing the opportunity given by the presence of YP’s from all around the country, on 4 December, the YP-group organised a meeting and a workshop in a country house near the city of Buenos Aires. After reviewing past year’s events and activities, the new board of the YP-group in Argentina was elected, and the 2022-2023 programme of activities was drafted, including possible on-site visits and technical seminars. The 13 YP’s attending the meeting reaffirmed their commitment to further strengthen the YP-group in Argentina.

1.5  International Activities

PIANC Argentina participated in the following events:

- Dissertation ‘Hydraulic Engineering’, lectured by Pablo Arecco in the bimonthly YP Japan technical meeting, in the framework of cooperation between PIANC YP Japan y PIANC YP Argentina.
- Pablo Arecco, Vincent Besson and Virginia Sy, as experienced YP-members, presented PIANC YP Argentina experiences in the ANTAQ (Brazil) event, which has intention in forming a Brazil YP group.

Sebastián García
Secretary PIANC Argentina
2 PIANC AUSTRALIA
& NEW ZEALAND IN 2021

2.1 Message from the Chair – Will Glamore

Our 2021 Yearbook report is a testimony to the PIANC Australia and New Zealand (PIANC ANZ) community’s continuing resilience, enthusiasm, and commitment to shared goals and aims, despite the continuing disruptions of the pandemic. Many thanks to all involved, especially to our hardworking Board, Commission Leads and Regional Chapters.

One sad note in 2021 was the sudden passing in September of our MarCom national representative and founding Board member, Peter Fountain. PIANC ANZ has lost a great engineer, leader and mentor.

2.2 Major Achievements and Events in 2021

- Continued to support and engage our membership through the amazing work of regional chapters in NSW, NT/QLD, VIC, TAS, WA, and NZ, who between them organised 21 regional technical and networking events, in person, online, or as hybrid events.
- Continued to increase our online technical outreach through hosting and recording three technical webinars, now available on our YouTube channel.
- Began the process of aligning PIANC ANZ activities and processes with UN SDGS, led by Board Member Jackie Spiteri, with the assistance of Anna Gudkov, one of our 2021 Board Observers.
- Launched our first women’s networking event – a lunch organised by our WA Chapter, and sponsored by corporate member Maritime Construction, which invited women in the ports and marine industry including coastal, management and research fields.
- Continued our frequent comms with members and colleagues, increasing our LinkedIn following to 1,100, and creating a three minute About Us video – to explain who we are, and how we lead.
- Undertook a major review of our Constitution (Rules and Regulations), explored options for a higher return investment strategy, and prepared the ground for a new paid part-time position of EO to the Board.
- Carried out a membership survey with the assistance of Olivier Martineau, one of our 2021 Board Observers, which satisfyingly gave us the thumbs up from members.
- Continued with our very well-regarded Mentoring Programme.
- PIANC ANZ members continued to participate strongly in PIANC’s International Working Groups, and in international initiatives such as the COP 26 two day workshop on ‘Practical climate change adaptation challenges and good practice solutions for ports’.
- Travel restrictions forced the postponement of our biennial major conference the 2021 Coasts & Ports Conference being held in Christchurch, NZ. Participant and sponsor support however remain very high, and we look forward to engaging with the Conference in 2022.

2.3 Events – Technical Knowledge Sharing and Community Building

In 2021, our regional chapters hosted twenty-one networking and technical events – in Brisbane, Darwin, Launceston, Melbourne, Perth, and Sydney. Three of their online technical webinars were recorded and uploaded to PIANC ANZ YouTube channel where they have attracted over 400 more viewers.
2.3.1 Planning for Automation of Container Terminals

This webinar organised by PIANC ANZ Northern Chapter (Queensland/Northern Territory) featured presentations by several authors of the PIANC Working Group Report No.208 – ‘Planning for Automation of Container Terminals’, who analysed state-of-the-art and best practice.

2.3.2 State of Ocean Energy in Australia

PIANC ANZ New South Wales (NSW) Chapter webinar included presentations by three leading Australian researchers and industry experts discussing Marine Renewable Energy (MRE) in Australia, offshore energy and opportunities in the Great Southern Coast and Wave Swell Technology.

2.3.3 Cairns Shipping Development Project

PIANC Western Australia (WA) Chapter presented a hybrid technical seminar – Cairns Shipping Development Project. This complex channel deepening project in Far North Queensland was awarded an Engineers Australia QLD AEEA award in 2020. The seminar provided insights from the consultant and the from the contractor’s perspective.

Our Young Professionals were very active in organising many events, with Australian YP-Com Chair Claire Treeby continuing her successful hosting of leadership breakfasts in WA, while YP’s elsewhere organised industry and PIANC networking events in Darwin, Melbourne and Sydney.

One of the many 2021 event highlights was WA’s Women’s Networking Lunch held in December (see picture) – the first of PIANC ANZ’s events designed to better support women in the ports and marine industry including coastal, management and research fields.

2021 also saw a new leadership team take on the mantle of PIANC activities in Queensland/Northern Territory – welcome to new regional leader Sam Mazaheri.

Another breakthrough event was a large successful gathering toward the end of the year in Launceston, Tasmania, organised by Neil Lawson, which will see the establishment of a new separate PIANC ANZ regional chapter.

The indefatigable PIANC WA team also hosted probably the most fun networking event of the year, with a BBQ breakfast preceded by a dive and snorkel trail featuring the Omeo shipwreck, and nearly seventy purpose built reef habitats.
2.4  PIANC ANZ Members Mentoring Programme

Initiated in 2020, and coordinated by Board Member Peter Engelen, the PIANC ANZ Mentoring Programme in 2021 continued to provide members with an opportunity of giving back to their coastal and maritime industry colleagues through sharing professional experiences and life lessons, as well as providing an opportunity for other members to gain guidance and advice in progressing their professional career.

The twenty-four participants in 2021 represent a varied cross section of members including junior and senior staff of port authorities, port managers, consultants and academia. Participants come from around the region, with one third of mentees being women.

One of our mentors Peter O’Brien, Managing Director of Corporate Member OMC International explained why he had volunteered for the role. “As a young engineer I was fortunate to receive excellent mentoring from experienced engineers that was invaluable at the time and I still to this day reflect on how important this was in shaping my career path. Now having worked as an engineer for now over thirty years, I would like to offer the same to engineers embarking on their journey. To me this is a critical role for senior engineers to undertake.”

Another mentor, Catherine Bla, General Manager – Asset Management & Projects at Port Authority of New South Wales, has been working in the port and maritime industry for twenty years. She says she’s keen to discuss the areas where mentees would like to develop, and to assist them through coaching based on her own experiences. “I’m looking forward to having the chance to share and also reflect on my career path, the successes and failures, and which skills I’ve needed to develop, and am still developing.”

2.5  UN SDGs Process Begins

In 2021, in a process led by Board Member Jackie Spiteri, the Board identified seven of the seventeen UN Sustainable Development Goals (SDGs) and fifteen associated SDG targets as being the most relevant to PIANC ANZ’s mission, objectives and activities.

Six of the Sustainable Development Goals (SDGs) and fourteen associated SDG targets were first identified by the Board as being the most relevant to PIANC’s mission, objectives and activities, and these were subsequently communicated to members at the Annual General Meeting on 4 June 2021.

Since the AGM, we have identified one additional SDG and target that we consider should be addressed by PIANC – being SDG13 Climate Action, and Target 13.3 – “Improve Education, Awareness-Raising and Human and Institutional Capacity on Climate Change Mitigation, Adaptation, Impact Reduction and Early Warning.”
In order to create a fuller PIANC ANZ SDG Strategy, we now aim to develop a series of specific, measurable, achievable, relevant targets with a proposed timeframe for implementation.

2.6 **Vale Peter Fountain**

In September, the PIANC ANZ Board and community was saddened by the unexpected passing of maritime industry legend and leader Peter Fountain. Peter, an experienced maritime engineer, who led the Maunsell/AECOM maritime engineering practice in Australia for decades, had been the Australian national representative for PIANC’s international Maritime Commission (MarCom) since 2014. Peter had served on the PIANC ANZ Board from its inception in 1998 to 2014.

He was enthusiastic and committed to the PIANC mission of technical advancement and knowledge sharing, professional and astute in his decisions, a wise, softly spoken and supportive leader. More about Peter is [here](#).

2.7 **PIANC ANZ Board**

In 2021, Chair Will Glamore remained at the helm of a vibrant hardworking team. In 2021, we were delighted to see Michael Gallacher, CEO of Ports Australia, take up his position on the Board.

2.7.1 **2021 PIANC ANZ Board Members**

- **Chair:** William Glamore
- **Deputy Chair:** Peter Engelen
- **Co-Secretaries:** Luke Campbell and Chris Carboon
- **Treasurer:** Katrina Dodd – support Neil Lawson (ex-Officio Member)
- **Elected Members:** Laurence Benn, Kevin Kane, Scott Keane, Jackie Spiteri, Michel de Vos
- **Invited Members:** Joel Bailey, Greg Britton
- **Engineers Australia Nominees:** Ron Cox and Katrina Dodd
- **Ports Australia Representative:** Michael Gallacher
The Board of PIANC ANZ meets formally four times a year, with several Board one-hour online catch-ups in between. Each quarterly meeting has a different primary focus.

1) Annual plan – tracking and performance
2) AGM planning and meeting (held in 2021 via Zoom on 4 June 2021)
3) Strategic Planning/Vision
4) Budget and Financial Review

2.7.2 2021 Observers to the Board

For the third year running, PIANC ANZ liaised with The Observership Program, which facilitates the involvement of young, talented and energetic individuals on non-profit Boards for a 12-month period. Our 2021 Observers were Anna Gudkov and Olivier Martineau.

Anna Gudkov is a litigation lawyer committed to keeping companies accountable for their climate change and ecological footprint. Anna works as a Senior Solicitor in the Corporate and Gas team at the Environmental Defenders Office (EDO), one of the largest environmental legal centres in the southern hemisphere. In 2021 Anna did great work with the Board (with Board Lead Jackie Spiteri) on aligning PIANC ANZ with the UN Sustainable Development Goals (SDG), and in looking at how we can increase PIANC ANZ’s diversity – in particular looking at gender diversity. Thank you Anna!

Olivier Martineau began his PIANC year as the General Manager, Commercial & Partnerships – Woolworths Everyday Rewards, but was advanced to General Manager, Strategy & Roadmap – Advanced Analytics at Woolworths Group by the end of 2021. Yet he found time to be of great service to PIANC ANZ with a membership survey, developing new membership engagement strategies, and assisting the Board in their plan for hiring a PIANC EO including looking at business case, risks, source funding, key responsibilities/finding the EO/ performance management. Thank you Olivier!
2.8 Membership & Communications

2.8.1 Membership

2021 saw continued growth in membership of PIANC ANZ. This increase has been achieved against the background of some of the most challenging years in recent history. Raising the level of corporate membership remains our ideal means to provide increased engagement with our communities and is a key focus of PIANC ANZ moving forward.

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PIANC A-NZ Membership 2013-2021

2.8.2 Growth in Communications

With COVID-19 travel restrictions, our online communications were more important than ever. In 2021, PIANC ANZ Comms sent three major e-newsletters and several more events-focused emails to a growing membership and community email list; from 1,205 contacts in January 2021 to 1,670 by December.

Our PIANC ANZ YouTube Channel was established in 2020, with five technical webinars uploaded to the site — these had 900 views. In 2021, three more webinars were added, and our total viewing had risen to 1,700 by the end of 2021.

One of our major communication achievements in 2021 was the creation of a three minute professional About Us video for our website, conferences, webinar intros and other promotions.

LinkedIn remains an effective tool for PIANC ANZ events, information and stories. By December 2021, we had 1,100 followers. There have been 550 views of the new About Us video on LinkedIn since it was uploaded in November 2021.

2.9 PIANC Technical Commissions – Australia New Zealand Role

PIANC ANZ has national member representation on EnviCom, MarCom and RecCom. We also have representation on PIANC Commission for Countries in Transition – International Co-operation (CoCom) Ron Cox, and Young Professionals (YP-Com). PIANC’s global finances and promotion/marketing are handled by FinCom and ProCom, respectively. In mid-2021, Neil Lawson finished his four-year term as one of PIANC’s four Vice-Presidents, and at the 2021 General Assembly was appointed an Honorary Vice-President.

All our Commission Leads work very hard to ensure PIANC ANZ stays connected and involved.
2.10 Regional Chapters

Established only two years ago, in 2021 our regional chapters hosted twenty-one networking and technical events – in Brisbane, Darwin, Launceston, Melbourne, Perth, and Sydney.

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 ANZ Board.
In 2021, the chapters were led by:

**NSW/ACT**

**REGIONAL CHAPTER CHAIR**
Matthew Batman

**YP REPRESENTATIVE**
Shane Freeman

**CHAPTER CONTACT**
Michel de Vos

**YP-REPRESENTATIVES**
Chip Pohlen

**QLD/NT**

**REGIONAL CHAPTER CHAIR**
Sam Mazaheri

**YP-REPRESENTATIVES**
Thomas Bishton (QLD)

**SA**

**CHAPTER CONTACT**
Paul Constance

**YP-REPRESENTATIVE**
Uddish Singh

**VIC/TAS**

**CHAPTER CONTACT**
Chris Carboon

**YP-REPRESENTATIVES**
Laurence Benn

**WA**

**REGIONAL CHAPTER CHAIR**
Claire Treeby

**YP-REPRESENTATIVE**
Michael Fisher

**Mark Bennet**
2.11 Young Professionals

The Young Professional (YP) Commission is a vital part of PIANC's future. As one of the most active groups worldwide, in 2021, PIANC ANZ YP’s held networking and leadership events across Australia, and worked with the PIANC ANZ board on related activities. In 2021, the work of YP’s in our regional chapters made a huge difference in getting events underway despite the pandemic.

Their work is led, supported and encouraged by our amazing PIANC ANZ YP-Com Chair, Claire Treeby. Claire has a structural engineering background, with a focus on marine structures such as wharves and jetties. All her activities reflect her passion about sharing knowledge and making connections within the ports & maritime field.

As a leading member of the Local Organising Committee Claire contributed greatly to the success of the inaugural PIANC Asia-Pacific Conference APAC2020. She was equally busy in 2021 as Chair of the WA Regional Chapter.

William Glamore  
Chair PIANC Australia & New Zealand

pianc.org.au  
www.linkedin.com/company/pianc-a-nz
3 PIANC CANADA IN 2021

3.1 About PIANC Canada

The Canadian National Section of PIANC was formed in August 2020 and currently has twenty-four members comprising of eight Individual Members, one Life Member and fifteen Corporate Members.

3.1.1 Board Members

- **President:** Stephen Kwok
- **Vice-President:** Helen Jenkins
- **Secretary:** Neville Berard
- **Treasurer:** Luc Boisclair

Our special thanks go to Mr Martijn Van Den Berk for his valuable contributions as the Secretary since the formation of PIANC Canada. He returned to the Netherlands in 2021 but will certainly continue to participate in PIANC in other capacities. He will be missed by our National Section.

3.1.2 Strategic Planning

An important activity this year is the development of our Mission, Vision and Strategic Plan that will guide our activities over the next three to five years.

Our **Mission** is to connect the waterborne transportation community by advocating for a sustainable and resilient maritime industry that is supported by global PIANC resources, networks, and guidelines.

Our **Goals** over the next five years are:

- Increase government awareness in PIANC’s ability to support discussions on technical, economic and environmental issues pertaining to national waterborne transportation.
- Have 200 active participants across Canada and 500+ followers on social media
- Have regular representations on at least 10 Technical Commissions and Working Groups
- Increase connectivity with participants and industry through 1-2 organised events per year.

3.2 Technical Commissions

With the establishment of PIANC Canada, we have seen increased participation in the Technical Commissions. Our goal is to broaden the knowledge base and also ensure that recommendations made by the international body include considerations to the industries in Canada.

New this year is that PIANC Canada now has representatives on all the Technical Commissions comparing to three last year. The following members are currently serving on the Technical Commissions:

- **InCom** – Mr Luc Boisclair has represented Canada in InCom since 2018
- **MarCom** – Mr Samir Gharbi was appointed as Canadian representative in 2020
- **EnviCom** – Mr Danker Kolijn was appointed as Canadian representative in 2021
- **RecCom** – Mr Matt Friderichs was appointed as Canadian representative in 2021
- **YP-Com** – Ms Neville Berard has been a member of YP-Com since 2019

3.3 Working Groups

The core business of PIANC International is the publication of technical reports by international Working Groups which are highly respected by governments, consultants, and industry associations. Canadian members are currently participating in the following Working Groups:
3.4 Social Media

In addition to the PIANC Canada website, we also have also been growing our presence on LinkedIn. With almost 200 followers, follow us to keep up to date on the latest industry news related to PIANC Canada at:

https://pianc.ca

https://www.linkedin.com/company/pianc-canada/

Stephen Kwok  
First Delegate PIANC Canada
4 CCNR IN 2021

4.1 About the CCNR

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.

The CCNR held its plenary spring session on 02 June 2021 and its plenary autumn session on 09 December 2021, by videoconference. Mr Michel-Étienne Tilemans, the head of the Belgian delegation, chaired the meetings.

4.2 Evaluation of the Belgian Presidency for the Period 2020-2021

The change in the rotating presidency at the end of 2021 was an ideal opportunity to emphasise the highlights of the period 2020-2021, notwithstanding a difficult health situation. Mr Michel-Étienne Tilemans stressed the importance of the collaboration between the CCNR, the European Union (EU), the United Nations Economic Commission for Europe (UNECE), the other river commissions and traditional partners, especially the navigation profession. The CCNR has continued its intense dialogue with the EU, the objective being a balanced and efficient collaborative relationship. As for the European Committee for drawing up Standards in the field of Inland Navigation (CESNI), it is a major area of cooperation between the CCNR and the EU for the development of European standards for inland navigation.

As sustainable development and the financing of greening initiatives in inland navigation are core Belgian priorities, the Presidency also fully supported the CCNR’s objective of achieving a zero emissions inland navigation sector by 2050. The publication of a study on the financing of the energy transition and the adoption of a roadmap for reducing emissions, and the organisation of a workshop on alternative energy sources for electric propulsion systems, were major achievements in the period 2020-2021.

The integration of the inland navigation sector with digital and multimodal logistics chains, an ambition shared by the CCNR and Belgian Presidency, also continued. In its resolution 2021-I-10, the CCNR decided to authorise the presence on board of certain certificates and shipboard documents in electronic form. This first step in developing the digitalisation of the navigation of the Rhine is an important stage in the administrative simplification process. New technologies and innovation, especially automation, were at the forefront of the CCNR’s work. The small navigation Committee (RN) was set up accordingly, a body dealing specifically with automated navigation, was set up. A summary of the CCNR’s vision for automated navigation was also adopted and distributed. Finally, we can point to the signing in October 2021 of a declaration of intent reiterating the cooperation with the Commission for the Hydrology of the Rhine basin (CHR). The objective here is to step up dialogue on essential issues such as the impact of climate change on the Rhine waterway.

The French delegation headed by Mr François Alabrune will take over the Presidency for the period 2022-2023.

4.3 CCNR Study on the Energy Transition to a Zero-Emissions Inland Navigation Sector

The energy transition is an existential challenge for Rhine and European navigation. However, it is necessarily accompanied by technological adaptations, the costs of which are considerable, and can only partially be borne by the profession. In this context, the CCNR has noted the findings of the study on the financing of the energy transition to a zero-emissions inland navigation sector, conducted in consultation with the principal actors within the sector. The study investigates the role that a European
subsidy and financing mechanism might play in supporting the energy transition. Such a mechanism should be accessible on the same conditions to all CCNR member state vessel owners. It is important to note that the study’s findings do not prejudge the positions of the Central Commission and of its member states.

Possessing as it does a European dimension, the study is also a major plank in the implementation of the **Mannheim Declaration**. Indeed, the latter had emphasised the need for new financial mechanisms in order “as far as possible to eliminate emissions of greenhouse gases and other pollutants by 2050” and had tasked the CCNR with taking the initiative in developing them. Moreover, this study feeds into the CCNR roadmap for the overall reduction in greenhouse gas and pollutant emissions by 2050.

The conclusions of the study represent a major input to the discussions at Rhine, European and international level on a European subsidy and financing mechanism for the energy transition. The CCNR reiterated its willingness to take part in these important discussions. The study was published at the beginning of July 2021 on the CCNR’s website.

### 4.4 Reduction of Emissions in the Inland Navigation Sector: Adoption of the CCNR Roadmap

In accordance with the mandate given by the Ministerial Declaration of 17 October 2018 in Mannheim, the CCNR also developed a roadmap aiming at largely eliminating greenhouse gas emissions and other air pollutants attributable to the inland navigation sector by 2050. This instrument was drawn up in close collaboration first and foremost with industry representatives, the river commissions, and the EU.

The CCNR is thus playing a full part in protecting the environment and climate, while at all times ensuring the prosperity and safe and orderly navigation of the Rhine. The Central Commission is aware that the energy transition needs to be considered a crucial challenge facing inland navigation on the Rhine and elsewhere in Europe and must remain a priority public policy area.

During its autumn plenary session, the CCNR adopted this roadmap for reducing inland navigation emissions. By means of this essential document, the Organisation aspires to develop a shared, European vision of the energy transition, and specifically wishes to:

- set transition pathways for the existing and future fleet
- suggest, plan, and implement measures directly adopted or not by the CCNR
- monitor the intermediate and final objectives laid down by the Mannheim Declaration

Despite current uncertainties concerning especially the development, cost, level of maturity and availability of the technologies contributing to the transition towards a zero-emission inland navigation sector, it is necessary to make an immediate start on designing an approach towards this ambitious objective that can be sustained in the medium and long-term. In this context, identifying and considering the measures enabling an accelerated transition towards zero-emissions (such as regulatory measures, monitoring of emissions, financial support for the energy transition, etc.), together with the development of technology transition pathways for the fleet, are essential elements of the CCNR roadmap.

The publication of the CCNR roadmap was planned in January 2022 on the CCNR website.

### 4.5 Summary of the CCNR’s Vision to Support the Harmonised Development of Automated Navigation

The Mannheim Declaration calls on the CCNR “to press ahead with development of digitalisation, automation and other modern technologies, thereby contributing to the competitiveness, safety and sustainability of inland navigation”. The CCNR is responding to this call and, as it has done with other innovations, is keen to place Rhine navigation at the forefront of the harmonised development of automated navigation, not least through its close cooperation with the shipping industry, while bearing in mind that the development of automated navigation is not an end in itself. Automation implies a fundamental change for inland navigation and will affect almost all aspects of inland navigation. The CCNR therefore takes a global approach, taking account of legal, ethical and social aspects.
Automated navigation is indeed a challenge, as it involves the safe coexistence of automated vessels and "conventional" vessels. Furthermore, this automated navigation will have to be integrated into the existing context of Rhine navigation. Similarly, automated navigation will have to be adapted to the existing physical infrastructure, which is likely to require the provision of additional information. As a first step in fostering this development, the CCNR will create a framework for the authorisation of pilot projects which require temporary derogations from CCNR regulations. In order to face the specific challenges posed by automated navigation, the CCNR has revived its Small Navigation Committee (RN), originally established to tackle and coordinate innovative and cross-sectoral developments in Rhine navigation. Given the cross-sectoral nature of automation, the CCNR considers it necessary to develop simultaneously the requirements for the operation of vessels, the training of personnel and the composition of crews, as well as the technical requirements for vessels and those relating to information technology and liability. To this end, the CCNR will update its own regulations (RPNR, RVBR, RPN) and also propose to the European Committee for drawing up Standards in the field of Inland Navigation (CESNI) the development of any standards it deems necessary to ensure the safety of navigation and to allow the harmonisation of regulations on a European scale.

With this in mind, the CCNR has drawn up this vision as an instrument for directing and coordinating the work to be carried out in the period 2022 to 2028 and beyond.

4.6 Digitalisation Front and Centre of the CCNR’s Activities

In its resolution 2021-I-10, the CCNR decided to authorise the presence on board of certificates and other shipboard documents in electronic form. This is a first step in the development of digitalisation in Rhine navigation, which will be manifested in an increasing shift to certificates and other shipboard documents in electronic form.

This policy decision also enables several objectives to be addressed:

1. send a strong signal to the inland navigation profession by permitting the presentation of certain shipboard documents in electronic form
2. allowing certain shipboard documents to be presented in PDF format at any time with no additional level of authentication
3. making life easier for the profession, but also for the authorities responsible for applying the regulations, in the event the inspecting authorities
4. lightening the administrative burden on the navigation of the Rhine without making it any less safe

Article 1.10 and annex 13 of Rhine Police Regulations (RPR) have been amended accordingly. This is an important step which aims, with effect from 1 June 2022, by analogy with hard copy documents, which will remain valid, to allow certain shipboard documents to be presented in electronic form alone, with no additional level of authentication.

In the same order of idea, the CCNR has gradually introduced electronic reporting requirements on the Rhine for vessels or convoys carrying containers. At its spring plenary session 2017, the CCNR decided to extend the electronic reporting requirement to vessels with fixed tanks aboard, with effect from 1 December 2018. The extension of the electronic reporting requirement to the vessels referred to in article 12.01(1)(a) and (d) to (h) of the Rhine Police Regulations (RPR) was approved by the Central Commission at its autumn plenary session 2019 and came into force on 1 December 2021.

Electronic reporting facilitates data interchange between vessels and sector traffic centres compared with reporting by radio telephony or in writing. Electronic reporting is integral to River Information Services (RIS). It also reduces the administrative workload for boatmasters and inland waterway managers.

4.7 Adoption of ES-RIS by 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.

At its meeting on 15 April 2021, the CESNI adopted a first edition 2021/1 of the European standard for river information services (ES-RIS). The ES-RIS defines the technical specifications for RIS with a particular view to ensuring complete interoperability on the Rhine and the European Union’s waterways. Available in 4 languages (English, French, German, Dutch), the first edition of the ES-RIS comprises the following RIS standards: the Inland ECDIS Standard, the VTT Standard, the NtS Standard, the ERI Standard and the CESNI’s test Standard for Inland AIS.

Please find more information on the CESNI website: https://www.cesni.eu/.

4.8 Rhine Waterway-Related Topics

At its spring plenary session, the CCNR adopted the updated international alert and communication procedure as an additional pandemic management information tool. For information, the international alert and communication procedure established by resolution 2009-II-9 is currently applied in the event of an accident or the unavailability of infrastructure for technical reasons. The update aims to ensure that even in the event of a pandemic, information is immediately exchanged between the sector’s traffic centres, and that inland waterway transport is notified of any infrastructure operating restrictions throughout the Rhine corridor. This procedural amendment will help bolster yet further the reliability of the Rhine as a navigable waterway.

In parallel, the CCNR also approved three construction projects (new water intake structure on the Upper Rhine, the construction of set offs on the banks of the Rhine at Seltz, and demolition of the arch bridge across the Lek in the vicinity of Vianen) at its plenary session. The Central Commission noted that neither the work, nor the measures planned cause any significant impediment to navigation.

During the CCNR autumn plenary session, the French delegation reported on a project to construct new passenger vessel berths on the Upper Rhine. The plenary session approved the construction of 2 berths at Vogelgrun (Rhine km 225,300) and Hüningen (Rhine km 170,300). Upon completion, there will be an additional 7 vessel berths on the Upper Rhine. The berths will be built and operated by a concessionaire and come with shore power, a water supply and parking for buses.

4.9 Economic Situation of Inland Navigation in Europe

The Market Observation and Market Insight reports are respectively annual and biannual publications dealing with the European inland navigation market. In partnership with the European Commission, the CCNR published its 2021 annual Market Observation report on inland navigation in Europe in September and its Market Insight reports, in April and November 2021. These reports provided an exhaustive overview of the market situation and of developments in European inland navigation during 2020-2021. The CCNR also publishes a thematic report once a year, the theme of which is defined in consultation with the European Commission. The thematic report published in January 2021 focused on the European inland navigation sector labour market.

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/.
4.10 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, 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.

Please find more information on the CDNI website: https://www.cdni-iwt.org/.

4.11 Contact

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Lucie Fahrner
Communication officer CCNR
5 PIANC DENMARK IN 2021

2020-2021 were challenging years for PIANC-Denmark due to the COVID-19 pandemic. Consequently, all activities have been cancelled until mid-2021. The cooperation 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 organizations which makes this cooperation both natural and practical.

5.1 PIANC Members

Individual Members: 13  
Corporate Members: 16

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

5.1.1 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 market 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.

5.1.2 Secretariat

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

5.2 ACTIVITIES IN 2021

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

5.2.1 Working Group Members

- **WG 194** – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’: Niels Kiersgaard – Port of Lindo A/S.  
- **WG 233** – ‘IMR Waterfront Structures’: Andrija Krivokapic – COWI A/S.  
- **WG 238** – ‘Guidelines for the Use of BIM in Infrastructure for Ports and Waterways’: Guillaume Albert, COWI A/S.

5.2.2 Meetings

5.2.2.1 1 September 2021 – Visit to Femern Tunnel Construction Site at Rødby, Denmark

In cooperation with the project owner, Femern A/S, PIANC Denmark invited the members to a site visit at the on-going project. Introductions were presented by the owner and the contractor after which the group went by bus tour along the construction site. The visit also included a ferry trip to the German side and back. During the lunch on the ferry we held our Annual General Assembly.
Overview of construction development at Rødby, Denmark. In the background is the working harbour and area for production of tunnel elements. In front the existing ferry terminal and between the two ports is the tunnel portal. 300 ha land reclamation between these structures and on either side have commenced (Summer 2021).

Description of the Reclamation Works

Femern A/S is proceeding with the construction of the largest immersed tunnel in the world, which in 2029 will connect Denmark and Germany with a four-lane motorway and two railway tracks. Our efforts on Lolland are now visible from ‘space’ in the form of the working harbour breakwaters, construction of the tunnel portal and the huge land reclamation areas of more than 300 ha that will provide space for the excavated uncontaminated seabed materials from the tunnel trench.

On Lolland, mitigation and compensation measures have been underway for more than 6 years, and have resulted in, among other things, the creation of ponds to ensure the survival of protected amphibian species (Annex IV species under the EU Habitats Directive). A new lake, Lungholm Lake, of 8 ha has been established to replace the lake that was located in the tunnel portal area, as well as associated wetlands. In addition, about 120 ha of agricultural land have been taken out of production and will be converted to salty meadows. On the German side the compensation activities will amount to more than 220 ha of agricultural land, which will be taken out of production, some ponds for amphibians as well as 40 winter protection areas for newts.

More compensation measures will be established once the land reclamation areas on Lolland and Fehmarn have been completed and will, together with the artificial reef on the German side of the Fehmarnbelt, constitute a total compensation ratio of 1:3, supporting biodiversity in the area. The development of the measures is accompanied by yearly monitoring programme. In 2022, the monitoring of amphibians will be supplemented by environmental DNA sampling in 21 ponds with the purpose of achieving more reliable results regarding existing species in the ponds supplementing the physical observations, which are limited in numbers. All survey results are published on the Femern Data Portal ÆGIR (https://aegir.femern.com).
A wetland of app. 1.5 ha is being established around the Lungholm Lake by removing the top soil along the lake shore. However, it does not seem sufficient as the wetland tends to dry out in dry season of the year. The activities will need to create minor deeper areas as well to secure wet areas during the dry season.

Involvement of NGOs is an important tool, as they have local knowledge about the areas and valuable suggestions for actions and care measures. Here the discussion is about reestablishment of the vegetation around the lake. It looks promising. But do not do anything for now was the advice from the NGOs.
Lungholm Lake is established as a compensation for the lost lake in the tunnel portal area. The lake is established as a brackish water lake with three protected bird islands. The lake has already become a hotspot for numerous bird species. The photo is from December 2021.

Jens Kirkegaard
Chairman of PIANC Denmark
LA SECTION FRANÇAISE DE L’AIPCN EN 2021

6.1 AIPCN – Section Française

La section française est constituée en 2021 de :

- 1 grand collectif
- 22 petits collectifs
- 30 membres individuels
- 3 membres honoraires
- membres à vie

6.1.1 Le bureau AIPCN-France en 2021

- **Président:** Guillaume le Réveillé
- **Vice-présidents:** Geoffroy Caude et Paul Scherrer
- **Premier délégué (du gouvernement):** Paul Scherrer
- **Trésorier:** Jacques Paul
- **Secrétaire et secrétaire adjoint:** Fabrice Daly et Florent Boudet

6.2 Représentants français aux groupes de travail

6.2.1 Groupes de travail actifs

Il y a 48 représentants français participant à 30 groupes de travail.

6.2.2 Représentants français aux groupes de travail AIPCN récents

6.2.2.1 Inscriptions en 2021

6 inscriptions ont été recensées en 2021 pour 5 groupes de travail :

- InCom WG 236 – ‘Sustainable Management of the Navigability of Free Flow Rivers’
- InCom WG 237 – ‘Bottlenecks and Best Practices of Transport of Containers on Inland Waterways’
- MarCom WG 238 – ‘Guidelines for Use of BIM in Infrastructure for Ports and Waterways’
- MarCom WG 240 – ‘Guidance for Ports in Small Island Countries’
- InCom WG 241 – ‘Handling Accidents and Calamities in Navigation Hydraulic Structures’

6.2.2.2 Rapports récemment publiés

En 2021, 2 rapports avec des représentants français sont parus :

- InCom WG 197 – ‘Small Hydro Power Plants in Waterways’
- InCom WG 198 – ‘Saltwater Intrusion Mitigation in Inland Waterways’

6.3 Événements internationaux

En raison de la situation sanitaire en 2021, l’ensemble des événements internationaux ont été reportés ultérieurement.

La section française a participé à l’AGA de manière dématérialisée.

De plus, les membres de la section française ont participé à plusieurs webinaires organisés par PIANC. Le représentant français à EnviCom a ainsi participé à l’organisation préalable au premier semestre 2021 puis au déroulement les 14 et 15 septembre du ‘Working with Nature for Climate-Resilient Ports and Waterways Online Workshop’ organisé conjointement avec la coalition ‘Navigating a Changing Climate’.
6.4 Événements en France

En raison de la situation sanitaire en 2021, seules les réunions de bureau et l’assemblée générale ont pu se tenir, de manière dématérialisée.

Ainsi, la plupart des événements en France ont été reportés en 2022. Notamment:

- Hommage à Jean Chapon, président d’honneur de la section française
- Journée technique portuaire AIPCN-France, sur le sujet de l’interaction navire/infrastructures

Néanmoins, la section française a commencé à préparer les événements futurs:

- Première édition des ‘Rencontres de l’Ingénierie Maritime’ en juin 2022, avec l’ESITC Caen, le Cerema, la SHF, Syntec Ingénierie et l’AIPCN-France
  Ce nouveau rendez-vous de 3 jours traitera des aménagements, des ouvrages complexes, des méthodes numériques, de l’instrumentation, des questions énergétiques et climatiques, de l’intégration des ouvrages, des solutions basées sur la nature, etc.
  http://esitcrimfr.srv15.createurdimage.fr/

6.5 Jeunes professionnels

La section française a lancé en 2021 le ‘Prix Jeune Professionnel francophone’, dédié à Jean Chapon, président honoraire de la section française et grande figure de la communauté maritime et fluvial.

Ce prix récompense les articles techniques de langue française dans le domaine des infrastructures de navigation maritime ou fluviale. Il est destiné à encourager et rassembler les jeunes professionnels des secteurs privés, parapublics et publics.


http://aipcn.fr/prix-jeune-professionnel-francophone/

http://aipcn.fr/

Florent Boudet
Secrétaire de l’AIPCN France
7 AIPCN – FRENCH SECTION IN 2021

7.1 In 2021, the French Section is Composed By:

- 1 large Corporate Member
- 22 small Corporate Members
- 30 Individual Members
- 3 Honorary Members
- Life Members

7.1.1 The French Bureau in 2021:

- **Chair:** Guillaume le Réveillé
- **Vice-Chairs:** Geoffroy Caude and Paul Scherrer
- **First (Government’s) Delegate:** Paul Scherrer
- **Treasurer:** Jacques Paul
- **Secretary and Vice-Secretary:** Fabrice Daly and Florent Boudet

7.2 French Representatives in the Working Groups

7.2.1 Active Working Groups

48 French representatives are participating in 30 Working Groups.

7.2.2 French Representatives to the Current PIANC Working Groups

7.2.2.1 Registrations in 2021

6 registrations have been identified in 2021, in 5 Working Groups:

- InCom WG 236 – ‘Sustainable Management of the Navigability of Free Flow Rivers’
- InCom WG 237 – ‘Bottlenecks and Best Practices of Transport of Containers on Inland Waterways’
- MarCom WG 238 – ‘Guidelines for Use of BIM in Infrastructure for Ports and Waterways’
- MarCom WG 240 – ‘Guidance for Ports in Small Island Countries’
- InCom WG 241 – ‘Handling Accidents and Calamities in Navigation Hydraulic Structures’

7.2.2.2 Recently Published Reports

In 2021, 2 reports with French representatives were published:

- InCom WG 197 – ‘Small Hydro Power Plants in Waterways’
- InCom WG 198 – ‘Saltwater Intrusion Mitigation in Inland Waterways’

7.3 International Events

Due to the health situation in 2021, all the international events have been postponed.

The French Section participated in the PIANC Annual General Assembly by videoconference.

Moreover, French Section members participated in several webinars hosted by PIANC. The EnviCom French representative also participated in the organisation, in the first semester of 2021, and in the conduct of the ‘Working with Nature for Climate-Resilient Ports and Waterways Online Workshop’ in September, organised jointly with the coalition ‘Navigating a Changing Climate’.
7.4 French Events

Due to the health situation in 2021, only the office meetings and the general meeting have been held, by videoconference.

Thus, most of the French events have been postponed in 2022. In particular:

- The tribute to Jean Chapon, Honorary President of the French Section
- The AIPCN-France technical meeting, on the topic of ship/infrastructure interaction

Nevertheless, the French Section has started to prepare the following events:

- First edition of the ‘Maritime Engineering Meetings’ in June 2022, with ESITC Caen, Cerema, SHF, Syntec Ingénierie and AIPCN-France. This new 3-day meeting will deal with planning, complex structures, digital methods, instrumentation, energy and climate issues, the integration of structures, solutions based on nature, etc. [http://esitcrimfr.srv15.createurdimage.fr/](http://esitcrimfr.srv15.createurdimage.fr/)

7.5 Young Professionals

In 2021, the French Section launched the ‘French Young Professional Prize’, dedicated to Jean Chapon, Honorary President of the French Section and a great figure in the maritime and waterway community.

This prize rewards technical articles in French in the field of maritime or inland waterways infrastructures. It is intended to encourage and bring together young professionals from the private, semi-public and public sectors. The 2022 prize will be awarded during the ‘Maritime Engineering Meetings’ in June 2022 at ESITC-Caen.


Florent Boudet
Secretary of PIANC France
8 PIANC GERMANY IN 2021

8.1 National and International Activities

In 2021, our German Section had three virtual meetings. The first one at the end of April, the next one in September and finally the third one in December. The meeting in December was planned as a hybrid meeting at Hamburg's waterfront, but unfortunately we had to change to a virtual meeting due to the pandemic.

Hamburg's waterfront (© Bundesanstalt für Wasserbau)

Our first meeting with 44 participants was opened by our President Mr Esteban Leffler. Please find the topics of all our meetings below:
8.2 29 April 2021 – Virtual Meeting PIANC Germany, 44 Participants

- **InCom** – News and developments
- **EnviCom** – News and developments
- Discussion orientation PIANC Germany
- Presentation of results **InCom WG 179** – ‘Standardisation of Inland Waterways – Proposal for the Revision of the ECMT 1992 Classification’
- Presentation training offers – ShibataFenderTeam AG

8.3 23 September 2021 – Virtual Meeting PIANC Germany, 37 Participants

- Presentation **YP-Com**
- Presentation **FinCom**
- Presentation **ProCom**
- Presentation changes in our PIANC Germany Website
- Collection of ideas for member recruitment
- Presentation **InCom WG 189** – ‘Fatigue of Hydraulic Steel Structures – Design, Analysis, Assessment and Maintenance’
- Presentation **EnviCom WG 178** – ‘Climate Change Adaptation Planning for Ports and Inland Waterways’

8.4 03 December 2021 – Virtual Meeting PIANC Germany, 37 Participants

- Presentation **RecCom**
- Presentation **CoCom**
- Presentation **RecCom WG 149** – ‘Guidelines for Marina Design – 2016’

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**EIGENSCHAFTEN VON SPORTBOOTEN**

**Abmessungen (in mm)**

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**Excerpt Presentation RecCom WG 149 ‘Guidelines for Marina Design – 2016’**

Mr Thomas Pelke, Clement Germany GmbH

- **Status MarCom WG 194** – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’
- **Interim Report InCom WG 203** – ‘Sustainable Inland Waterways – A Guide for Waterways Managers on Social and Environmental Impacts’
8.5 New German Members in PIANC Commissions in 2021

- **Maritime Navigation Commission (MarCom)**
  Dr. Robert Howe (Bremenports GmbH & Co. KG)
  Dr. Lars Stemmler (Bremenports GmbH & Co. KG)

- **Recreational Navigation Commission (RecCom)**
  Prof. Dr.-Ing. Peter Fröhle (Institut für Wasserbau, Technische Universität Hamburg)

8.6 Membership 2021

- Individual Members: 119 – with the following distribution:

  ![Membership Distribution Diagram]
  - Corporate Members: 14
  - Platinum Partners: 1
  - Life Members: 2
  - Honorary Members: 2

http://www.pianc.de/

Gabriele Peschken
Secretary PIANC Germany
9 PIANC IRAN IN 2021

9.1 PIANC Iran Composition

In 2021, there have been some changes within the PIANC Iran Board. Mr Mohammadreza Allahyar, Deputy Directorate for Engineering and Infrastructural Affairs Development of the Ports and Maritime Organisation of Iran, has been appointed as a Co-Chair of the International Co-Operation Commission (CoCom). We are also pleased to announce the appointment of Mr Hamid Khalili, Head of Coastal and Port Engineering Department Development of the Ports and Maritime Organisation of Iran, as the new First Delegate of PIANC Iran.

9.2 Membership 2021

9.2.1 Members:

- 25 Individual Members
- 10 Small Corporate Members
- 3 Student Members

Membership Status 2011-2021

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### 9.2.2 Iranian Delegates:

<table>
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<tr>
<th>First Delegate of Iran</th>
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<tr>
<td>Hamid Khalili</td>
<td>Mohammadreza Allahyar Co-Chair</td>
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<thead>
<tr>
<th>MarCom</th>
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<tbody>
<tr>
<td>Babak Bani Jamali</td>
<td>Mohammad Hossein Nemati Secretary and Member</td>
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<tr>
<td>Vice-Chairman</td>
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<tr>
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<tr>
<td>Naser Hajizadeh Zaker</td>
<td>Reza Saffari Member</td>
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<tr>
<td>Mehdi Kamyab Roodsari</td>
<td>Sahar Mokhtari Member</td>
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<tr>
<td>Reza Sohrabi Ghomi</td>
<td>Alireza Shafieefar Member</td>
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### 9.2.3 PIANC Iran Secretariat

<table>
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<tr>
<th>Mohammad Hossein Nemati Head of PIANC Iran Secretariat</th>
<th>Atefeh Afshoon Expert Advisor</th>
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<tbody>
<tr>
<td></td>
<td>Ali Akbarpour Expert Advisor</td>
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9.3 Working Group Activities

PIANC Iran members actively participated in several PIANC Working Groups’ initiatives and activities in 2021.

9.3.1 Membership

- Dr. Babak Banijamali: EnviCom PTG CC WG 178 – ‘Climate Change Adaptation for Maritime and Inland Port and Navigation Infrastructure’.
- Dr. Sahar Mokhtari: EnviCom WG 218 – ‘The Implications of Invasive Alien Species for Waterborne Transport Infrastructure’.
- Dr. Hadi Bahmanpour: MarCom WG 232 – ‘Metocean Related Risk During the Construction of Marine Works’.

9.4 National and International Activities:

In 2021, COVID-19 continued its worldwide spread and led to a flurry of event cancellations and postponements in the world. Although the vaccines provide strong protection against the virus, the spread of the highly contagious delta variant has affected ongoing or planned activities.

Despite the headwinds created by the delta COVID-19 variant, PIANC Iran tried to take the opportunities to discover various ways of communication and continue its activities virtually to keep connected with all members.

9.5 Participation in PIANC Meetings and Events

- Virtual PIANC Technical Commission Meetings
- Virtual PIANC 84th Council Meeting, March 2021
- Virtual PIANC Annual General Assembly 2021, May 2021
- PIANC Virtual Seminar, May 2021
- Virtual PIANC 85th Council Meeting, October 2021
- PIANC YP-Com International Virtual Event, November 2021

9.6 PIANC Iran Training Programme

PIANC Iran’s training programme covers a wide range of national, regional and international training courses, seminars, and workshops suitable for students, experts, and professionals at all levels.
9.6.1 PIANC Iran Webinar Series

On 19 September 2021, PIANC Iran hosted an online webinar entitled ‘Working with Nature’. It was the first of the PIANC Iran webinar series and was a free event for all attendees.

This event consists of three presentations: ‘The Concept of Working with Nature for Maritime Infrastructure Projects’ provided by Dr. Naser Hajizadeh Zaker, ‘Working with Nature Approach – Case Studies’ by Dr. Mehdi Shafieefar and ‘PIANC’s Working with Nature Initiative’ by Dr. Sahar Mokhtari.

Following the lectures, there was a 30-minute question and answer session in which the attendees shared suggestions and opinions on the subject. It was an excellent opportunity to bring together 70 attendees from the Ports and Maritime Organisation of Iran, Iranian Universities, and consulting engineering companies.

9.6.2 Online Training Course on ‘Principles of Scrutinising the Integrated Coastal Zone Management (ICZM)’

A two-part online course entitled ‘Principles of Scrutinising the Integrated Coastal Zone Management (ICZM)’ was held for students, consulting engineers, and experts on 5 and 7 December 2021. This course was designed by the Ports and Maritime Organisation of Iran and was free of charge for all PIANC Iran members.

This training included eight hours of education was presented by Dr. Ali Pak (Professor of Geotechnical Engineering at the Sharif University of Technology) and Dr. Afshin DanehKar (Head of Environmental Sciences Department of the University of Tehran).

The course was divided into four parts. The first and second parts focused on the principles, experiences, and achievements of ICZM in Iran. The third part covered a practical example of ICZM in Hormozgan province in order to provide a better understanding of how to use the outcomes of ICZM. The final was a question and answer session in which the attendees shared suggestions and opinions on the subject and asked their questions.

9.6.3 Online Training Course on ‘Advanced Hydrography’

An online course on ‘Advanced Hydrography’ was conducted for experts of PMO, consulting engineers, and students in December 2021 and was free for all PIANC Iran members.

This course included twelve hours of education presented by Darya Tarsim Consulting Engineers Company (Dr. Bahman Tajfirooz and Eng. Reza Arabsheibani) and Darya Naghshe Consulting Engineering Company (Eng. Mohsen Shapoorvand and Eng. Morteza Dadgari).

The course was divided into two parts. The first part focused on an overview of fundamentals of Hydrographic Surveying such as Uncertainty Assessment, Coastline control points, Global Navigation Satellite System (GNSS), and guidelines and standards. The second part provided participants with
advanced knowledge on core areas of the theory and practice of hydrography such as tides, general requirements of a hydrographic project, multi-beam sonar sounding system to map the seafloor, single and dual-frequency echo sounders, cartography, and calculating sedimentation rate and volume using two different software.

9.7 National Section Meetings

9.7.1 PIANC Iran Secretariat Meetings

In order to increase the efficiency and improve the performance of PIANC Iran, virtual weekly meetings were held regularly and mainly focused on all activities in progress or in the process of implementation according to the operational plan of 2021.

9.7.2 Delegates Meetings

In 2021, the PIANC Iran Secretariat held separate meetings with the delegates in order to promote PIANC Iran’s programmes and activities. A hybrid delegates meeting took place at the Ports and Maritime Organisation of Iran on 29 August 2021. At the meeting, PIANC Iran welcomed its new first delegate, Mr Hamid Khalili, and thanked Mohammad Reza Allahyar for his hard work and commitment. Most importantly, his tireless efforts to promote and grow the Iranian national section to what it is today. Also, PIANC Iran acknowledged outstanding delegates’ efforts and accomplishments during this meeting.
9.8 Memorandum of Understanding on Scientific and Executive Cooperation

In order to develop PIANC Iran’s activities, exchange experiences, improve the quality of scientific research, and create an essential ground for enhancing educational and research affairs, PIANC Iran signed a Memorandum of Understanding with the Iranian Society of Marine Science and Technology on Scientific and Executive Cooperation.

9.9 Participation in the International Maritime Transport and Logistics Conference ‘Marlog 10’

According to the activities of PIANC Iran on the promotion of PIANC, Mr Mohammadreza Allahyar, Co-Chair of CoCom, and Dr. Babak Banijamali, Vice-President of MarCom and the Delegate of PIANC Iran, participated as Chairman to Sessions 5 and 4, respectively, at the International Maritime Transport and Logistics Conference – Marlog 10.

The 10th Marlog Conference on ‘Digitalisation in Ports, Logistics, and Maritime Industry’ was held from 13 to 15 June 2021.

9.10 Translations and Publications

Furthermore, a certificate of appreciation for guest speakers in the PIANC Iran Webinars has been designed.

9.11 Upcoming Events and Activities in 2022

9.11.1 PIANC IRAN AWARD

In order to develop PIANC Iran’s activities and promote the knowledge on coastal and ports engineering, PIANC Iran is working to design and create a new award. The purpose of this international award is to encourage graduates, professionals, and experts all around the world to produce and present research, as well as recognise and provide material and spiritual support for achievements and creative ideas.

The international PIANC Iran award will be held every two years, which the first edition of this competition will take place in 2024. The three Awards will be given to the best articles in three regions of Asia and Oceania, Europe and Africa and Americas separately, and one goes to the best Iranian article.

9.11.2 The 14th International Conference on Coasts, Ports and Marine Structures (ICOPMAS 2022)

ICOPMAS is a biennial event that provides appropriate grounds to exchange the latest scientific innovations and technical executive achievements. It is one of the most well-known scientific events in the world. The conference affords a forum to promote coastal and marine engineering science and
opens up new horizons for related experts to present their capabilities to the world. This conference leads to using new methods and modern devices in the marine industry to promote innovative management systems, strategic and economic technology, and preparing the required ground for future cooperation among employers, investors, and consultant engineers.

The Ports and Maritime Organization of Iran is going to hold the 14th International Conference on Coasts, Ports, and Marine Structures (ICOPMAS 2022) from 31 October to 2 November 2022, in cooperation with International Maritime Associations, domestic and foreign organizations, universities, contractors and consulting engineers with a particular emphasis on technical and specialised cooperation among all countries.

For more information, please visit ICOPMAS website at http://icopmas.pmo.ir/, which is available in four languages: English, Persian, Arabic and Russian.
10 PIANC JAPAN IN 2021

10.1 About PIANC Japan

PIANC Japan was established in November 1977. As of December 2021, it is composed by 156 members, out of which 100 are Individual Members (including 3 Life/Honorary Members) and 56 are Corporate Members.

10.1.1 Key Members of PIANC Japan

- First Delegate of Japan: Mr Takamitsu Asawa, Director-General of Ports and Harbours Bureau, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
- President: Mr Mitsuhiko Okada (concurrently serving as Vice-President of PIANC Headquarters)
- Secretary-General: Mr Masaru Suzuki.
- Chair of the Planning Committee: Mr Norio Sasaki, Director of International Policy Planning Office, Ports and Harbours Bureau, MLIT
- Honorary Vice-President of PIANC Headquarters: Mr Hiroshi Hayashida, Former President of PIANC Japan

10.2 Message from the President

Thanks to the dedicated participation of members, PIANC Japan has been strengthening its activities in 2021, the second year of the pandemic. I am proud to report the progress of PIANC activities in Japan and Asia during the last twelve months. Through our two webinars targeting Japanese and overseas audience, we have extended the reach of PIANC activities in Japan, Asia, and beyond. I also would like to express my appreciation to Japanese young professionals for their sincere effort of deepening technical exchange among them. I hope we can continue to navigate through the uncharted sea, the COVID-19 pandemic, through the support of our members and PIANC families.

10.3 Activities of PIANC Japan in 2021

10.3.1 Attendance at PIANC AGA and Council

Ten PIANC Japan members attended the virtual AGA meeting (in UK) on 26 May 2021, and four members attended the online Council meeting on October 20.

10.3.2 Participation in PIANC Technical Commissions

PIANC Japan participated in the following Technical Commissions (mostly online)

1. InCom 21 January, 1 March, 10 June and 13 October 2021
2. MarCom 7 March, 17 April, 9 June, 30 June, 27 October and 10 November 2021
4. RecCom 17 February and 14 April 2021
5. CoCom 28 June and 3 October 2021
6. ProCom 1 April, 20 September, 15 November and 3 December 2021
7. YP-Com 3 March and 8 September 2021
10.4 Participation in Working Groups

10.4.1 InCom

- **InCom WG 128** – ‘Alternative Technical-Biological Bank Protection Methods for Inland Waterways’ Rep: Tetsunori Inoue (PARI)
- **InCom WG 199** – ‘Health Monitoring for Port and Waterway Structures’ Rep: Ema Katoh (PARI)
- **InCom WG 236** – ‘Sustainable Management of the Navigability of Free Flow River’ Rep: Yasuyuki Nakagawa (PARI)

10.4.2 MarCom

- **MarCom WG 153B** – ‘Recommendations for the Design and Assessment of Marine Oil, Gas and Petrochemical Terminals’ Rep: Eiji Kohama (PARI)
- **MarCom WG 164** – ‘Upgrade of Port Terminals by Increasing Dredged Depth’ Rep: Takaaki Mizutani (PARI), Masafumi Miyata (NILIM)
- **MarCom WG 167** – ‘Design of Terminals for Ro-Ro and Ro-Pax Vessels’ Rep: Masahiro Takenobu (NILIM)
- **MarCom WG 194** – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’ Rep: Takahiko Kishimoto (Central Consultant), Taishi Yamamoto(MLIT)
- **MarCom WG 199** – ‘Health Monitoring for Port and Waterway Structures’
Rep: Ema Katoh (PARI)

- **MarCom WG 205** – ‘Design and Construction of Breakwaters in Soft Seabeds’
  Rep:(Chair) Yoichi Watabe (Hokkaido Univ.), Takahiro Kumagai (Penta-Ocean), Hidenori Takahashi (PARI)

- **MarCom WG 211** – ‘Guidelines for the Design of Fender Systems’
  Rep: Shigeru Ueda (IDEA), Haruo Yoneyama (PARI), Masamitsu Ikebe (Shibata Industrial), Hitoshi Akiyama (CDIT)

- **MarCom WG 212** – ‘Criteria for Acceptable Movement of Ships at Berths’
  Rep: Haruo Yoneyama (PARI)

- **MarCom WG 213** – ‘Design Guidelines for Marine Multipurpose Terminals’
  Rep: Motohisa Abe (NILIM)

- **MarCom WG 224** – ‘Planning of Fishing Ports’
  Rep: Masamitsu Nakaizumi (Tokyo Univ. of marine Science and Technology)

- **MarCom WG 225** – ‘Seismic Design Guidelines for Port Structures’
  Rep: Chair Atsuhsi Nozu (PARI)

- **MarCom WG 238** – ‘Guideline for Use of BIM in Infrastructure of Ports and Waterways’
  Rep: Daisuke Tatsumi (NILIM)

- **MarCom WG 239** – ‘Mitigation of Tsunami disasters in Ports’
  Rep: Tomohiro Takagawa (PARI)

- **MarCom WG 240** – ‘Guidance for Ports in Pacific Island Countries’
  Rep: Ichiro Motono (OCDI)

10.4.3 EnviCom

- **EnviCom WG 214** – ‘Sediment Beneficial Use’
  Rep: Mitsui Nozu, Takashi Hara (Fudo Tetra), Shinya Hosokawa (PARI)

- **PIANC Permanent Task Group on Climate Change (PTG CC)**
  Rep: Kazuhiro Honda (NILIM)

10.4.4 CoCom

- **CoCom WG 126** – ‘SC-1, Training in Ports and Waterways’
  Rep: Tomohisa Abe (NILIM)

Notes

- PARI – Port and Airports Research Institute
- NILIM – National Institute for Land and Infrastructure Management
- CDIT – Coastal Development Institute of Technology
- JACMS – Japan Association of Cargo-Handling Machinery Systems
- OCDI – The Overseas Coastal Area Development Institute of Japan

10.5 Board Meeting and Annual General Assembly

PIANC Japan held its Board Meeting and Annual General Assembly with a limited number of participants in Tokyo on 24 June 2021. At the meetings, the financial statement of FY2020 was reported, and the activity programmes and the budget for FY2021 of PIANC Japan were approved. Prior to the Board Meeting, Planning Commission was held on 24 March.

On 25 June 2021, PIANC Japan hosted an online special lecture by Dr. Shibasaki (Tokyo Univ.) for its members, titled ‘The Global Logistics Network and the Suez Canal’.
10.6 Japanese Members of PIANC Commissions and Working Groups Had a Meeting

On 27 January 2021, Japanese members of PIANC Commissions and pertinent government officials had an online meeting to exchange their views on PIANC Commissions.

And on 25 February 2021, Japanese members of Working Groups gathered to report on the WG-activities. Mr Katoh, Deputy Director-General for Engineering Affairs, Ports and Harbours Bureau, MLIT, gave an opening speech for the meeting attended by approximately 30 people.

10.7 PIANC Asian Seminar 2021 (Online)

On 11 May 2021, PIANC Japan organised its first-ever Asian Seminar, featuring coastal disaster prevention, and invited first-class researchers and experts from Asian countries as speakers. A total of 255 people from 27 countries/regions participated in the Seminar. About half of the participants were from countries other than Japan.

10.7.1 Speakers

- Mr Francisco Esteban Lefler (President of PIANC)
  ‘Video Message from President of PIANC’
- Dr Tomoya Shibayama (Waseda University, Japan)
  ‘Recent Coastal Disasters over the World’
- Dr Hendra Achiari (Bandung Institute of Technology, Indonesia)
  ‘Tsunami Disaster Experience and Risk Management Policy in Indonesia’
- Dr Mario P. De Leon (De La Salle University, the Philippines)
  ‘Storm Surge and High Wave Disaster Experience and Risk Management Policy in the Philippines’
- Mr Taishi Yamamoto (MLIT, Japan)
  ‘Coastal Area Disaster Prevention and National Resilience Policy in Japan’

10.8 PIANC Japan Online Seminar 2021 (Online)

PIANC Japan hosted a technical seminar on 26 October 2021. Nearly 200 audiences attended the seminar.

10.8.1 Speakers

- Mr Yasuyuki Nishio (MLIT)
  ‘Carbon Neutral Port Initiative in Japan’
- Mr Kenji Mori (Ministry of Agriculture, Forestry and Fisheries, MFFA)
  ‘Formulation of a New Long-Term Plan for Development of Fisheries Infrastructure’
• Dr. Ayato Tsutsumi (Penta Ocean)
  ‘Gi-CIM Visualisation Technique for Ground Improvement’
• Dr. Muneo Yoshie (PARI)
  ‘PIANC MarCom WG 208 Report – ‘Planning for Automation of Container Terminals’

10.9 YP-Com Activities

The Japanese YP-group has been conducting regular webinar series since the COVID-19 pandemic started. This webinar series has been conducted once or twice a month, totalling twelve webinars this year. These webinars cover a variety of topics, and we have more than forty participants at the most. We invited Mr Pablo Arecco as a guest speaker also from international PIANC members.

We also hold a bilateral webinar between the Argentinian YP-group and the Japanese YP-group. The time difference between both countries is twelve hours, the largest time difference in the world. We had technical talks with Sebastian from Argentina and two YP’s from Japan.


Masaru Suzuki
Secretary of PIANC Japan
At the beginning of 2022, the Dutch Section consisted of 135 members, among which:

Due to the ongoing pandemic the organisation of live events was limited. Furthermore, it was next to impossible to visit the ongoing engineering projects. With the success of last year in mind, three webinars were organised that were well attended by a broad audience. This year, we decided to use English as the preferred language to welcome expats and foreign PIANC-members. Furthermore, each webinar used at least one of the Working Group outcomes to promote the participation in Working Groups.

The first webinar focused on nautics in offshore. MARIN gave a presentation on the balance between shipping and offshore wind. Boskalis presented the work of PIANC WG 200 with the ‘Recommendations on the Design and Assessment of Mooring Facilities’. Finally, Rijkswaterstaat shed a light on the perspective on the VTS application at open sea.

The theme of the second webinar was nautical safety and the interaction with structures. The first presentation focused on the nautical aspects related to the design and construction of the Blankenburgtunnel, the new connection underneath the Nieuwe Waterweg to improve the connectivity around Rotterdam. Arcadis presented the results of PIANC WG 215 in which the accidental impact from ships on fixed structures is assessed. With some recent collisions in mind Rijkswaterstaat provided an overview of the learned lessons in the recent past.

Blankenburgtunnel (source: Rijkswaterstaat)
Weir Grave after the collision in 2016 (source: Rijkswaterstaat)

The last webinar shed light on the latest trends in fairway development. Rijkswaterstaat showed the latest guidelines for waterway development. Deltares presented the project in which the climate resilience of the waterway network in the Netherlands is tested. Finally, Deltares presented the results of a large European project where a Digital Twin is used to optimize the fairway use.

The webinars showed that there still is a high demand for a network that is sharing knowledge, trends and experiences. During the autumn PIANC Netherlands was exploring the possibility of hosting a live event. The first step was a live board meeting in the dredging museum in Sliedrecht, courtesy of Boskalis. Unfortunately, it was not to be but we remain hopeful that 2022 will be the year in which we can properly meet each other.

For more information send an email to sec-pianc@deltasres.nl.

www.pianc.nl

https://www.linkedin.com/company/pianc-nederland

@SecPianc

https://www.facebook.com/jongPIANCNL

Remi van der Wijk
Assistant-Secretary PIANC Netherlands
12 PIANC PORTUGAL IN 2021

12.1 Membership

As First Delegate, PIANC Portugal has Mrs Maria Graça Neves.

and as Portuguese Delegates:

Currently, the Portuguese National Section has got 58 members:

- 38 Individual Members
- 20 small Corporate Members
12.2 Technical Commissions & Working Groups

The Portuguese members in the PIANC Commissions are:

- **MarCom** – Maria Graça Neves and Ricardo Carvalho
- **InCom** – Hugo Lopes and Luis Vasconcelos
- **EnviCom** – Carlos Coelho
- **RecCom** – Luis Vasconcelos and Maria Cristina Afonso
- **CoCom** – Jorge Santos Teles
- **YP-Com** – Márcia Lima

The First Delegate and Chairperson attended the Council and AGA online meeting. The PIANC Portugal Commission members had participated in online meetings of their respective PIANC Commissions and members were proposed for the new Working Groups.

12.3 National Activities

2021 was the year of restart the PIANC activities in Portugal and two webinars were organised, one by the Portuguese Young Professionals Group and another one by the Portuguese Delegation.

‘Coastal and Port Engineering in Portugal and in the World: The Testimony of Young Portuguese Professionals’ was organised on 21 May 2021 by the Portuguese YP-Com members. It brought together Portuguese Young Professionals working in Portugal and abroad. They presented their work, focusing on the practice of maritime-port engineering in the countries where they are working and on the differences with the activity in Portugal. The webinar is available at [Engenharia Costeira e Portuária em Portugal e no Mundo - YouTube](https://www.youtube.com/watch?v=M3ll1ETy2yU) (in Portuguese).

‘Coastal and Port Engineering in Portugal – Major Works in Progress’ was organised on 18 November 2021 by the Portuguese Delegation of PIANC. The extension of the outer breakwater of the Port of Leixões, the extension of the east breakwater, the rehabilitation railway access, and the extension of the PSA quay wall of the Port of Sines, the emergency protection works at the Port of Lajes das Flores, and the main coastal protection works promoted by the Portuguese Environmental Agency were presented and discussed. The webinar is also available at [https://www.youtube.com/watch?v=M3ll1ETy2yU](https://www.youtube.com/watch?v=M3ll1ETy2yU) (in Portuguese).
The Portuguese delegation of PIANC, together with the Portuguese YP’s, are now working on the organisation of the PIANC’s Portugal national conference, which will take place at Sines, on 7-8 April 2022 (10ªs Jornadas Portuguesas de Engenharia Costeira e Portuária – PIANC Portugal). This conference took place at Sines and brought together Portuguese specialists in this area.

Maria Graça Neves
First Delegate PIANC Portugal

www.pianc.pt

https://www.facebook.com/PIANC-Portugal-116996106881889

https://www.linkedin.com/in/pianc-portugal/
13 PIANC SOUTH AFRICA IN 2021

13.1 Overview

Last year this time we were reporting back on 2020 and the effects of COVID-19. Unfortunately, it seems this year was very similar with more lockdowns and restrictions. Lockdowns are not good for any economy and the consequences will still remain for some time. Currently we are all watching the effect of a ‘fourth wave’ locally, with international travel to South Africa being put on hold by some countries. Nonetheless, the show must go on so it is with pride that we can say the planning for hosting the PIANC Congress (in 2024) in Cape Town is still underway.

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

13.2 National Section

Membership has not changed significantly from previous years and remains healthy. Presently the National Section has 26 members as compared to 28 in the previous year. We do, however, now have one Corporate Member within our National Section.

The National Section has met once 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 SA structure due to the retirement of The Treasurer, Dr. Andre Van Tonder. Mr Gerhard Kapp has offered to fill this position.

13.2.1 The National Section is Supported by the Following Office Bearers

- **First Delegate**: Mr Magenthan Ruthenavelu
- **Treasurer**: Mr Gerhard Kapp
- **Vice-Chairman**: Mr Keith Mackie
- **Secretariat**: Ms Marisa Ackhurst
- **YP Representative**: Ms Marli Geldenhuys
- **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, however due to the current worldwide uncertainty on travel restrictions the original date of 2022 has changed to 2024. The LOC is planning to start meeting on a regular basis again to plan for the event.

Following on our first online PIANC technical talk that was presented in 2020, we have presented another talk this year. These talks are very well attended. It is planned to continue hosting these informative technical talks for our members in 2022.

13.3 Young Professionals

Ms Marli Geldenhuys as agreed to take over the role of the YP-representative. For this reason, we are positive that the PIANC YP’s will be more active in 2022.

13.4 Involvement of Members in Working Groups

- Mr Craig Johnson is a member of MarCom WG 194 – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’.
- Mr Christiaan de Wet is working on EnviCom WG 230 – ‘How to Attract Green Funding for Nature-Based Navigation Infrastructure’.
• Mr de Wet is also working on InCom/MarCom WG 23 – ‘Mooring Bollards & Hooks: Selection, Maintenance and Testing’.
• Mr James Melvill has joined MarCom WG 238 – ‘Guidelines for Use of BIM in Infrastructure for Ports and Waterways’. The Terms of Reference have been finalised. The first meeting has not yet happened.
• Mr Roy van Ballegooyen is participating on the EnviCom WG 227 – ‘A Guide for Assessing and Managing Environmental Restrictions on Dredging and Disposal Operations’.
• Furthermore, Ms Marli Geldenhuys is representing South Africa on PIANC’s Permanent Task Group on Climate Change.

Marisa Ackhurst
Secretary PIANC South Africa

Mr Francisco de los Santos, Head of the Area of Innovation at the Port Authority of Algeciras, made an online presentation about how innovation activities and technology in general are changing the shipping industry and the port activities. He focused especially on the experience of his Port Authority and the implementation of a new programme trying to attract innovative ideas and local ‘start-ups’. This programme has been recognised with the ESPO Award 2020. The event was attended by 40 participants and it is available in English at the NS website (www.atpyc.com, section ‘Members only’).


The YP-groups of the National Sections of Argentina and Spain co-organised a technical session trying to share dredging experiences in both countries, in the ports of Huelva (Spain) and Bahía Blanca (Argentina). The event was attended by 140 participants.

Representing Spain, Mr Alfonso Peña López-Pazo, Head of the Area of Infrastructures in the Port Authority of Huelva, showed his experience in dredging management in the last decades. He especially focused his presentation in environmental aspects, in which the Port Authority of Huelva has been very active, playing a leading role in Spain.

This event was organised by the Working Group 5 – ‘Beneficial use of Dredging’ of the Port Engineering Committee of the Spanish Section, in collaboration with the Portuguese Section. It was attended by 77 participants. Four speakers presented several conferences about beneficial uses of dredging process.

WEBINAR ASPECTOS POSITIVOS DEL DRAGADO

- 10:00-10:15: Presentación. D. Manuel Arana Burgos (Presidente de la ATPyC) y D. Gregorio Gómez Pina (Presidente del Comité de Ingeniería y Gestión de la Costa de la ATPyC).
- 10:15-10:45: Erosión de la costa y cambio climático. D. Raúl Medina Santamaría y D. Iñigo Losada Rodríguez (Catedrático de la Univ. Cantabria).
- 11:15-11:45: Necesidades de arena en el litoral valenciano y posibles fuentes. D. José Serra Perls (Catedrático de la Univ. Politécnica de Valencia).
- 11:45-12:15: Necesidades de arena en el litoral catalán y posibles fuentes. D. Jordi Galofre Saumell (Jefe del Servicio de Proyectos y Obras, Universidad de Zaragoza, MITECO) y D. Ana Mª Castañeda Fraile (Jefe del Servicio de Proyectos y Obras, Demarcación de Costas en Cataluña, MITECO).

Las preguntas deberán hacerse por el chat y serán resumidas al final de la sesión. Si el tiempo lo permitiera serán contestadas por los conferenciantes respectivos, y de no ser así, pasarían al turno de preguntas de la segunda sesión.

Inscripciones: http://atpyc.com/eventos/aspectos-positivos-del-dragado/


Organised by the Coastal Committee. The event was attended by 233 registered participants. Eight speakers took the floor, coming from sectors such as Universities, Coastal Administration and several private companies. The topics discussed were mainly focused on erosion and climate change, sand management and dredging and coastal protection projects.

PRIMERA SESIÓN 29 de abril de 2021 de 10:00 a 13:45 horas

- 10:00-10:15: Presentación. D. Manuel Arana Burgos (Presidente de la ATPyC) y D. Gregorio Gómez Pina (Presidente del Comité de Ingeniería y Gestión de la Costa de la ATPyC).
- 10:15-10:45: Erosión de la costa y cambio climático. D. Raúl Medina Santamaría y D. Iñigo Losada Rodríguez (Catedrático de la Univ. Cantabria).
- 11:15-11:45: Necesidades de arena en el litoral valenciano y posibles fuentes. D. José Serra Perls (Catedrático de la Univ. Politécnica de Valencia).
- 11:45-12:15: Necesidades de arena en el litoral catalán y posibles fuentes. D. Jordi Galofre Saumell (Jefe del Servicio de Proyectos y Obras, Universidad de Zaragoza, MITECO) y D. Ana Mª Castañeda Fraile (Jefe del Servicio de Proyectos y Obras, Demarcación de Costas en Cataluña, MITECO).

Las preguntas deberán hacerse por el chat y serán resumidas al final de la sesión. Si el tiempo lo permitiera serán contestadas por los conferenciantes respectivos, y de no ser así, pasarían al turno de preguntas de la segunda sesión.

Inscripciones: http://atpyc.com/eventos/1-jornadas-de-la-gestion-de-las-arenas-en-el-litoral-espanol/
14.4.1 Session 1

Assistants

Presentation

SEGUNDA SESIÓN  11 de mayo de 2021 de 10:00 a 13:45 horas

- 10:00-10:15: Presentación. D. Manuel Arana Burgos (Presidente de la ATPyC) y D. Gregorio Gómez Pina (Presidente del Comité de Ingeniería y Gestión de la Costa de la ATPyC).
- 10:15-10:45: Dragado y medio ambiente: Experiencias. D. José Caselli Comín (Area Manager Spain and Portugal, Dredging International NV) y D. Luis Lomo Menéndez (Tender & Operations Manager Boskalis).
- 11:15-11:45: Cautellos ambientales en los proyectos de extracción y/o aporte de arenas: los informes de compatibilidad con las estrategias marinas. Dª Marta Martínez-Gil Pardo de Vera (Jefa de Área, Subdirección General de la Costa y el Mar, MITECO).

Las preguntas deberán hacerse por el chat y serán resumidas al final de la sesión, intentándose dar respuesta por los respectivos conferenciantes.

Inscripciones: https://atpyc.com/eventos/jornadas-de-la-gestion-de-las-arenas-en-el-litoral-espanol/
14.4.2 Session 2

Assisstants

Presentation

14.5 National Annual General Assembly 2021 of the Spanish Section. 23 June 2021.

The most important points on the agenda were the following:

- Report 2020 activities of the National Section (President and Secretary)
- Annual fees for 2021
- Budget approval
- Report of activities: PIANC Commissions and National Technical Committees
- Report of activities of National YP-Com
- PYCture Award 2021
- Modesto Vigueras Award 2021
14.6 Modesto Vigueras Award 2021

Convened by the Committee of Young Professionals. Six papers were submitted. The winning papers were presented at the National Annual General Assembly 2021.

14.6.1 First Place

Mrs Isabel Caballero de Frutos: ‘Development of a Bathymetric Model in Murky Coastal Areas with the Sentinel-2 Satellites’

14.6.2 Shared Second Place


Mr Camilo Jaramillo Cardona: ‘Model of Evolution of Coastline Tending to Balance for Embedded Beaches’

14.7 Webinar: Port and Coastal Planning. 29 June 2021.

This event was co-organised by YP Argentina and YP Spain. It was attended by 109 registered participants. Two speakers (Mr Jordi Galofré and Mr Néstor Álvarez) showed experiences from both countries about coastal protection and port planning.

14.8 Webinar: II Conference of Innovation and Technology in Port Management. 20 October 2021.

The event was organised by the Port Management Committee of the Spanish Section and was attended by 82 registered participants. A total of 8 speakers presented several lectures on new technologies, artificial intelligence, blue economy, Ports 4.0, and innovation in ports.
14.9  Webinar: Cycle Webinars YP Argentina and YP Spain Port Infrastructure. 3 November 2021.

Organised by the YP’s of both Argentina and Spain, the event was attended by a total of 29 registered Spanish participants. The main topics were floating concrete plants in port construction and the industrial construction of concrete caissons for quays.


The programme included eleven presentations on various topics, focused on both port and coastal engineering: infrastructures, climate change, blue economy, use of drones, and port services, among others. A total of 83 professionals from the sector attended the event.

The Technical Sessions, which took place online this year, have strengthened their position as one of the most important events of Young Professionals in the maritime and coastal industry.
14.11 Webinar: Design of Concrete Port Pavements. Increased Structural Capacity and Durability Through the Use of High-Performance Materials and Metal Fibres. 22 November 2021.

The webinar was attended by about 100 participants and was organised in collaboration with Bekaert, being one of PIANC’s Platinum Partners.
14.12 Other Activities

14.12.1 Meetings of Board

Five meetings were held in 2021.

14.12.2 Meetings of Committees

Port Engineering Committee

Environmental Sustainability Committee
14.12.3 The Strategic Plan: Practical Guide for Drafting and Processing in Ports

The book is the result of the work of Working Group 03 – ‘Analysis of Port Planning and Management in Spanish Regulations and their Environmental Processing (Port Management) Committee’. All our members have received a copy and it is available in pdf format on our website (exclusive for members).
14.13 Strategic Plan

The ATPyC (Technical Association of Ports and Costs, which is the Spanish Section of PIANC) is running a continuous updating process of its Strategic Plan which was first established more than twenty years ago.

From that date, it has become a basic tool to support the action plan of the ATPyC on a regular basis, identifying priority line of action based on the topics that emerge as those of greatest interest to our partners.

The major strategic lines of the Plan are defined through previous assessments (SWOT and others) and as a result of permanent evaluation of the implementation progress of the action plan in the past.

Nowadays, eight main strategic lines have been established, which are the following:

1. To improve communication and promote the Association activity to external stakeholders.
2. To promote training, dissemination of knowledge and technical discussion among partners.
3. To increase the presence of partners in PIANC activities and establish effective channels of communication with representatives in its Commissions and Working Groups.
4. To provide support for the sectorial internationalisation.
5. To promote multidisciplinary vision, collaboration and synergies between partners. Promote the involvement and participation of partners and collaborators coming from emerging technical fields.
6. To strengthen the provision of services to corporate partners.
7. To promote the involvement and participation of Young Professionals.
8. To promote development and innovation and of new technologies at the service of the sustainable competitiveness of maritime, port and coastal systems.

More than fifty objectives are framed in the cited strategic lines leading, in turn, to the definition of near seventy specific activities that have been identified to reach them.

In order to set priorities in the association activity in the near future and at medium and long term, some other specific analysis (e.g. MIC MAC) are run, providing consistency in the decision making process leading by the association board.

Finally, feedback from the partners is also a valuable driver in the updating process of the Plan. This information is collected through the presentation discussion of the Plan progress during the Annual Assembly of the ATPyC, besides specific surveys and direct contact with them.

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Manuel Arana Burgos
First Delegate PIANC Spain

Gemma Vázquez
Secretariat PIANC Spain
15 PIANC UK IN 2021

15.1 PIANC UK Committee Members in 2021

- Greg Haigh – Chairman
- Heather Houston, Will Evans – Vice-Chairs
- Michael Grace – MarCom Representative from July 2021
- Peter Hunter – MarCom Representative to June 2021
- Ian White – Government First Delegate, FinCom Chairman and Treasurer
- Jan Brooke – EnviCom Representative/PTG CC Chair
- Tim Beckett – RecCom Representative
- Christian De Meyer – ProCom Representative

Chris Boysons          Paul Datson
David Byrne           Nigel Bodell
Mike Thorn             Marine Perret
John Lovell           Steve Osborn
Ian Gillespie          Marta Mendizabel
Matthew East           Richard Wakelen
John Berry             Jamie Holmes
Ian Cruickshank        James Palmer
Siobhan Vaughan        Ian Dobson
Mark McBride           Cossel Chang

15.2 UK Membership

- The individual membership of PIANC UK has decreased slightly over the past year. The current membership is as follows:
- 145 Individual members comprising, 1 Honorary, 2 Life, 28 YP, and 114 Full Individual Members, a drop of eleven Individual Members.
- Corporate Membership increased to 28 Corporate Members – 11 large, 17 small, compared with 25 last year.
- The death of two members has been reported during the last year:
  - Dr Zedi Nyirenda of Folkestone, Kent and Malawi
  - Alan Wilkinson of Sevenoaks, Kent

15.3 UK Committee

The UK Committee met remotely online three times, and twice at a hybrid meeting. It continued its focus on ensuring UK representation on international working groups and educational events in the UK, while at the same time, continually adjusting the organisation’s activities to the restrictions imposed by COVID-19.

During the year, the membership of the UK Committee has changed. At last year’s Annual General Meeting, four candidates were appointed to the Committee, without the need for an election – Nigel Bodell of Bodell Port Consultants, Will Evans of Constructex, John Berry of John Berry Associates, and Mark McBride of HR Wallingford. One of them is a YP. They will serve for a period of four years from November 2020.

Nine members of the UK Committee are Young Professionals and slightly 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. The Port of London Authority has re-joined PIANC UK as a Corporate Member this year and both the PLA and the Port of Dover are represented on the Committee.

Three elected members of the UK Committee, all YP’s, reach the end of their four-year term this year: Marine Perret, Marta Mendizabal and Siobhan Vaughan. The Committee of PIANC UK would like to record its thanks to them for their contributions to PIANC UK.
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 30 members from the UK are involved with these Working Groups, some of them as Working Group chairmen.

15.4 PIANC UK’s Commission Representatives

PIANC International functions through its Commissions and the UK has representatives on all but one of them. Ian White chairs FinCom, while Jan Brooke is on EnviCom and chairs the PGT CC, Tim Beckett on RecCom and Christian De Meyer on ProCom. This year has been a year of transitions – Heather Houston has been replaced as the UK’s YP-Com representative by Matthew East, which will allow her to take up her new role as the Chair of PIANC UK. Michael Grace, formerly the UK YP-representative on MarCom, has taken over from Peter Hunter as the UK’s main representative on MarCom. The Committee wishes to thank Peter for his many years of enthusiastic and knowledgeable involvement in this role. Such is his reputation within PIANC worldwide that he has been asked to continue as a mentor to a number of MarCom Working Groups.

At present the UK does not have formal representation on InCom. This was a task that was undertaken by Richard Wakelen until last year when the pressures of his role as Head of Asset Management at the Canal & River Trust prevented him from continuing. Heather Houston has been monitoring InCom activities for the last year and, in her new role of Chair of PIANC UK, will be looking to agree a way forward for InCom representation with the Canal & River Trust.

Young Professional (YP) members also represent the UK on the Commissions; Ian Dobson on RecCom, James Palmer on MarCom and the Committee is about to select a YP from a list of potential candidates who have expressed an interest in representing the UK on EnviCom. Johan Skånberg-Tippen has joined the Permanent Task Group on Climate Change (PTG CC) as the UK’s YP-member to support Jan Brooke who now chairs this international body. The involvement of PIANC UK with PIANC International and the Working Groups is principally coordinated through all these individuals, and it is essential, on behalf of the entire UK Committee and the members, to thank them for their hard work over the last twelve months.

Finally, while acknowledging the commitment of individuals to the activities of PIANC, it vital that the Committee records its thanks to Mike Thorn who stands down as a member of the UK Committee this year. He can trace his membership of PIANC UK back to 1977 when he presented a paper at the PIANC Congress in Leningrad; subsequently, his contributions to PIANC have been extensive. From 1996 to 2011, he was the UK Chief Delegate, he was a founding member of EnviCom, and he was Chairman of the organising committee for the highly successful PIANC AGA & Congress in Liverpool in 2010. In 1997, at the request of Eric Loewy’s widow, he established the fund in his name which supports young engineers from developing countries to engage in and contribute to PIANC activities. He has also been the company secretary of PIANC UK Ltd since it was incorporated in 2005, a role he is also resigning at the AGM as he enters his 80th year.

15.5 Seminars and Events

PIANC UK’s status is as an Associated Society of the Institution of Civil Engineers. 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.

A full programme of online seminars has been provided during the year. Attendance at the seminars has been significantly higher since they went on-line in 2020, with some of the speakers and some of the audience now being located outside the UK. However, there is some evidence that webinar fatigue is increasing and that members would welcome some physical events in the future during the periods when they are permitted. For that reason, the Committee decided to experiment with a hybrid meeting in September.

- February: MarCom WG 145 – ‘Berthing Velocity Analysis of Sea-going Vessels’, by Mike Harrison (Inshore Systems) & Alfred Roubos (Port of Rotterdam) – online
- March: Seminar InCom WG 189 – ‘Fatigue in Hydraulic Steel Structures’ – by Ryszard Daniel (RADAR Structural) & Dirk Jan Peters (Royal Haskoning DHV) – online
- April: Seminar WG RecCom 147 – ‘Recreational Traffic and Commercial Ports’ – Dr Elio Ciralli (Envitek - Progetti e Opere) & Miles Featherstone (Port of London) – online
• May: Seminar InCom WG 191 – ‘Composites for Hydraulic Structures’ by Neil Appleton (National Composites Centre) & Casper Kruger (Structural Evolution) – online
• September: Seminar – YP Evening Seminar with presentations by Nathan Smith (Beckett Rankine), Thomas Mackinnon (Mott Macdonald), Matt Gorvett (Tony Gee) & Greg Murray (Arup) – at ICE, London
• October: repeat of YP Seminar for online audience
• November: Seminar ‘River Thames Projects’ – by Thomas Howard (EA), Liv Hov (Jacobs), Sam Anderson-Brown (Nash Maritime), Mark McBride (HR Wallingford) & Tim Beckett (Beckett Rankine) – hybrid – at ICE and online

It is planned to run a series of monthly seminars for the first half of 2022, starting at around 16.30 hrs and lasting for no more than one and a half hours. These events will continue to be free of charge and will be accessible, and advertised to PIANC members around the world. Some will be hosted by the ICE but, when the ICE is unable to host these events effectively, they will be arranged on an alternative platform. A programme for the year will be issued early in 2022. In addition, it is intended to run a one-day paid conference, either at the ICE or on as a series of days on-line, at some point during the year.

15.6 PIANC AGA – Bristol

It was a big disappointment for PIANC UK that the Annual General Assembly, the annual gathering of all the National Sections of PIANC from around the world, which had had to be postponed from 2020 to 2021, was itself cancelled. It was to have taken place in Bristol. The LOC, ably chaired by Nigel Bodell of Bodell Port Consultancy for nearly four years, had to hastily revisit all the bookings and commitments that had been transferred from 2020. Hours of negotiations followed in order to minimise the costs of the cancellation. The UK Committee wishes to record its thanks for Nigel’s dedication and hard work, and also acknowledge the generous contribution to the abortive costs of the AGA made by PIANC International.

15.7 Annual General Meeting

The Annual General Meeting was held in November online as a hybrid meeting, which was attended by the President remotely. It was the final meeting for Greg Haigh as Chairman after nine tears in the role. His contribution to PIANC UK and the wider interests of PIANC were recorded by both the President, and also by the new Chair of PIANC UK, Heather Houston.

Greg took the opportunity to thank the numerous UK Committee members who had helped him over the last nine years for their patience, support and guidance, which had been invaluable. He was presented with a commemorative tumbler to mark his retirement from the role.

It had been an honour for him to serve as Chairman of PIANC UK, and it had given him great satisfaction to know that it remains a thriving organisation that is able to continue contributing strongly to PIANC internationally. He wished Heather Houston, the new chair, and PIANC UK every success in the coming years.

Ian White
First Delegate PIANC UK

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16. **PIANC USA IN 2021**

16.1 **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. This year, PIANC USA dealt with COVID restrictions as did most of the global community, but still managed to achieve several noteworthy accomplishments.

16.1.1 **The 2021 U.S. National Section Leadership Consisted of:**

- Chair and First Delegate, The Honorable Michael L. Connor, Assistant Secretary of the Army for Civil Works ASA (CW)
- President, Major General (MG) William (Butch) H. Graham Jr., U.S. Army Corps of Engineers, Deputy Commanding General for Civil and Emergency Operations (DCG-CEO)
- Secretary, Joe Manous, Director, Institute for Water Resources (IWR), U.S. Army Corps of Engineers (USACE)

16.1.2 **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 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)
- Commissioner Sandra Knight, President, WaterWonks, LLC
- Commissioner Jack Cox, Senior Partner/Principal Coastal Engineer, Edgewater Resources

16.1.3 **The 2021 U.S. National Section Principal Representatives for Commissions Included:**

- Burton Suedel, EnviCom Principal Rep
- Jose Sanchez, InCom Principal Rep
- Ron Heffron, MarCom Principal Rep
- Jon Armbruster, RecCom Principal Rep
- Matt McCarthy, YPCom Principal Rep

16.1.4 **Additional Support to the Commissioners Was Provided By:**

- Treasurer, Joe Mantey (volunteer)
- Outgoing Deputy Secretary, Kayla Waltemire, Institute for Water Resources (IWR), U.S. Army Corps of Engineers
- Incoming Deputy Secretary, Hamna Zaheer, Institute for Water Resources (IWR), U.S. Army Corps of Engineers
- Liaison to PIANC America Initiative, Dr Calvin Creech, Lead Technical Subject Matter Expert, US Army Corps of Engineers
Ms Kayla Waltemire served as PIANC USA Deputy Secretary from March 2020 through September 2021. During her tenure, Kayla made remarkable contributions by improving PIANC USA communications through the website, newsletters, and email notifications. She very ably assisted the PIANC USA Treasurer, Joe Mantey, with all aspects of registrations, bills payment, and meeting subvention requirements to PIANC. In addition, serving as the primary contact for communications between PIANC USA and PIANC Headquarters in Brussels, Belgium. A particularly notable accomplishment was preparation and mailing of over 50 framed certificates to recognize PIANC USA members who contributed to PIANC Working Group reports published over the past five years. Kayla has also been instrumental in planning efforts for the upcoming PIANC Americas conference scheduled for April 2023. In short, Kayla has performed her duties in a suburb manner and been a great pleasure with whom to work. She is leaving the Deputy Secretary position to accept a promotion within IWR. This promotion reflects both her past accomplishments and potential for the future. Good luck and many thanks to Kayla from the PIANC USA leadership, Board of Commissioners, and members for a job well done.

Ms Hamna Zaheer has joined PIANC USA as the PIANC USA Deputy Secretary. Ms Zaheer is a computer scientist who is very passionate about learning new things. Hamna holds a Bachelor’s degree in Computer Science (2016) and a Master’s degree in Software Engineering (2019) from George Mason University. From 2015-2019, Hamna served as an intern at the U.S. Army Corps of Engineer’s Institute for Water Resources (IWR) as a Computer Scientist Fellow. Hamna rejoined IWR last year and is currently providing her valuable technical expertise and experience supporting the work for the development and improvement of navigation databases and systems. Hamna is very excited to join PIANC Team as the new Deputy Secretary and looks forward to work alongside PIANC leadership and provide support to continue PIANC’s mission and activities.

Dr. Calvin Creech continues to serve as PIANC USA’s Liaison to the PIANC America Initiative. As part of his role, Dr. Creech has assisted in coordinating activities aimed to develop PIANC leadership from the Americas, promote professional development and training, and encourage collaboration amongst the maritime navigation communities. The PIANC America Initiative was created by the PIANC International Co-Operation Commission (CoCom), and PIANC USA was identified as the lead National Section for coordinating this regional initiative. As liaison to PIANC America, Dr Creech has led the effort to establish and develop the PIANC America Steering Group, which includes representatives from Argentina, Brazil, Colombia, Panama, and the United States. The purpose of the steering group is to promote PIANC affiliated development and sharing of navigation related information between the countries in North, Central, and South America. Another notable accomplishment has been leading the effort to organise the PIANC America Conference scheduled for 24-28 April 2023.
16.3  PIANC USA 2021 Events and Highlights

16.3.1  PIANC America Conference

PIANC USA continues the planning for the first PIANC America Conference, which will be held on 24-28 April 2023 in Fort Lauderdale, Florida. The conference theme ‘Sustaining Ports, Waterways, and Marinas through a Changing Climate’ is timely. The Conference Chair will be PIANC USA Commissioner Jim Walker and the Call for Papers has been issued in February 2022. For more information, please visit https://www.piancamerica2023.org/.

16.3.2  PIANC USA Annual Meeting

On 22 April 2021, PIANC USA hosted a virtual Annual Meeting for all members and those interested in learning more about PIANC USA. The meeting opened with remarks by Mr Vance Stewart III, the acting Principal Deputy Assistant Secretary of the Army (Civil Works). The keynote address was provided by Mr Francisco Esteban Lefler, President of PIANC. Mr Lefler addressed how PIANC has adapted in the COVID environment and plans for the organisation moving forward. The US Principal Representatives to the PIANC Technical Commissions provided overviews of current and upcoming Working Groups and recently published reports. Dr Calvin Creech, PIANC USA Liaison to PIANC America, provided an overview of the ‘PIANC Americas Initiative’. This is a newly formed initiative that brings together leaders from North, Central, and South America in the areas of Port Infrastructure, Waterway Development and Waterborne Transport. There was a panel discussion consisting of four PIANC USA leaders who discussed trends in future technologies related to ports, waterways, marinas, and coastal areas, as well as effects on the organisation and the maritime community due to the COVID pandemic. The meeting concluded with recognition of PIANC USA members who served on Working Groups that delivered published products and PIANC USA leaders who completed their terms. For additional information, see the PIANC USA website at https://pianc.us/annual_meeting_2021.
16.4 PIANC USA Webinars

16.4.1 Interaction Between Offshore Wind Farms and Maritime Navigation – A Webinar Hosted by PIANC USA

On 18 February 2021, PIANC USA hosted a webinar featuring Mr George Detweiler. George was a member of MarCom Working Group 161 – ‘Interaction Between Offshore Wind Farms and Maritime Navigation’. He provided an overview of offshore wind in the United States, then he provided a summary of the working group report. Participants were very engaged with questions about how the offshore wind farms are impacting navigation and numerous participants inquired about how they can access the report and learn more about PIANC. This was a well-attended event that highlighted the hard work and expertise of PIANC Working Groups and their contributors. PIANC USA continues to offer quarterly webinars with the next one tentatively scheduled for May.

16.5 PIANC USA Young Professional Commission (YP-Com) 2021 Events

16.5.1 Soft Shoreline Stabilisation – A Webinar Hosted by PIANC USA YP-Com

On 11 March 2021, PIANC USA YP-Com hosted a webinar featuring two presenters: Ms Alejandra Lira of SmithGroup and Mr Bart Roest, a PhD Candidate at KU Leuven. The overall theme for the webinar was Soft Shoreline Stabilisation Projects. Alejandra presented on a numerical and physical modelling approach to redevelop and protect a stretch of shoreline in Euclid, Ohio. The design goal was to protect the shoreline and provide a public amenity for the community. A combination of revetments, detached breakwaters, and pocket beaches were used provide protection and redevelop this stretch of shoreline. Bart presented on the 'Sand Engine', a mega nourishment project that served as a shoreline projection and as a feeder beach for the downdrift region. The project had numerous experts from different fields...
to assist with the design and monitoring of the project. Bart was involved with the sand monitoring and reviewing the changes to the sediment transport resulting from the large placement of sand. The participants were a mix of PIANC and non-PIANC members and were mostly YP’s.

16.6 Other PIANC USA 2021 Highlights


16.7 Follow PIANC USA on Social Media

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- 703-646-0329
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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/
- PIANC USA YP LinkedIn Group: https://www.linkedin.com/groups/3075291/

Contact PIANC USA:

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Kayla Waltemire
Deputy Secretary PIANC USA