COMMISSIONS
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1 REPORT OF THE FINANCIAL COMMISSION (FINCOM) 2021

1.1 Members

- Ian White, PIANC UK, Chairman
- Herbert Smitz, PIANC Belgium, Secretary
- Joe Mantey, PIANC US
- Neil Lawson, PIANC Australia
- Johan Boon, PIANC Netherlands
- Remi van der Wijk, PIANC Netherlands YP
- Manuel Arana Burgos, PIANC Spain
- Jan Reche, PIANC Germany
- Jacques Paul, PIANC France
- Sofie Nullens, PIANC Belgium YP
- Xavier Laloum, PIANC Colombia (Correspondance Member)
- Geert Van Cappellen, Secretary-General, PIANC HQ

1.2 Meetings

The Commission met twice over the last year 2021, with its first online 71st meeting on 3 February 2021 held virtually in Brussels (PIANC HQ) in preparation for the February 2021 ExCom and Council meetings. The 72nd FinCom meeting also took place online on 5 May 2021, prior to the online AGA 2021. A third online meeting was to be held in October 2021 but was cancelled and postponed to the winter meetings in Brussels 2022.

In this picture, you can see the various participants in the FinCom meeting: in the top row, the youngest ones, Geert Van Cappellen (Secretary-General of PIANC), our new member Sofie Nullens (YP-Com Belgium) and Remi van der Wijk (YP-Com Netherlands). Central row: Neil Lawson (Australia), FinCom Chairman Ian White (UK) and Jacques Paul (France). In the bottom row: Manuel Arana Burgos (Spain), Joe Mantey (US) and Jan Reche (Germany). Photographer and FinCom Secretary Herbert Smitz (Belgium) can be found in the bottom right corner in the small image!
1.2.1 The Online FinCom 71st Winter Meeting

This meeting took place on 3 February 2021 at 12:00 p.m. (CET). For our US member Joe Mantey, exceedingly early in the morning, for Neil Lawson at that moment in Sydney, late in the evening.

At the start of this new year, we also welcomed a new FinCom member. Engineer Sofie Nullens was appointed by the Belgian Section as its YP-representative within FinCom. She is a civil servant in the Maritime Access Agency of the Flemish Government and works in the Port of Antwerp.

The usual FinCom topics were considered. During the year 2020, our portfolio performed well in the very difficult circumstances of the coronavirus, and both the management costs and a satisfactory performance were finally achieved and are well under control.

Overall, the 2020 financial results were quite good. With a positive result of nearly € 97,000 at that moment, we could be pleased. Therefore, our Chairman thanked and congratulated especially Panama ACP and PIANC France for their extra financial input still linked to the organisation of the World Congress 2018 in Panama, and PIANC-SMART Rivers 2019 in Lyon. He also thanked PIANC HQ for the assistance provided in the reimbursement of some of the cancellation costs that had already been paid for the AGA in Bristol (2020).

Mr White is convinced that PIANC as an association must follow new paths since the pandemic has forced us to meet less in a physical and more in a remote/online way. This new way of communication can affect our activities, as well as the budgetary outcome of the Association. We will continue to work online more than what was the case before the pandemic.

A case study taken amongst the FinCom members before the meeting showed that on average, we spent 31 hours travelling to a meeting in Brussels, which incurred costs of € 760. Attending meetings online will have several benefits:

- significantly less expenditure on travel expenses
- no wasted time travelling
- a reduced carbon footprint
- less stress for all of us
- employers benefit from the above
- the opportunity to have more meetings if required

However, it is essential that a physical meeting is held at least once a year, to strengthen human contact between all members.

The development of webinars as a result of the pandemic will create opportunities for national and international events to reach a far wider audience and therefore be able to spread the technical knowledge that PIANC excels in. FinCom believes that this way of working will also increase the opportunity to recruit more members, and to generate extra income.

Membership constantly changes, with new members being added but others unfortunately leaving the Association. It was good news at that moment in February that for the first time since 2011, the Corporate Members and Platinum Partners together are more than five hundred in total. This is a major success. The fact that we have exceeded the number of five hundred was partly due to the superior performance of the Australian and Spanish Sections of PIANC, and the reason why the Chairman congratulated both sections.

Nevertheless, as FinCom assumes that every maritime sector is our target, the National Sections, in particular the Secretaries of those Sections, should make every effort in this sector to encourage potential members to join PIANC. They know the distinction between the ports, authorities, entrepreneurs, consultants, etc. and the local culture of the country.

We also need to think about how we can approach the many consultants involved in the ports to become Corporate Members of PIANC. FinCom therefore proposed to ProCom to seek for further marketing objectives how we as PIANC can approach potential members and thus increase revenue.

As our Chairman, Ian White, as well as Manuel Arana Burgos are both members of the Membership Task Group, the FinCom members were informed during this meeting about the actual selection procedure for appointing the company which will develop the new PIANC membership software.
Also, a travel document was prepared earlier by the Secretary-General. This document was sent to the National Sections so they can use it as a guideline. It has also been placed on the PIANC SharePoint and was discussed during the meeting of the National Secretaries.

Regarding future Seminars, Congresses and Working Group activities, the world map below was found on the internet which gave us an idea in February 2021 about when citizens in the many continents and countries were expected to be vaccinated. The map shows that from 2024 onwards, there should normally be no more problems, but for meetings in 2022 and 2023, it won’t be possible to organise meetings everywhere.

It looked more than likely that it would be possible to organise PIANC-SMART Rivers 2022 in China (green light green since September 2021), although concerns were that less interest could be expected as there may still be travel restrictions for some countries to China. Unfortunately, one year later, this February 2021 prediction looks a little too optimistic and the organisers are also looking for hybrid solutions.

The postponement of the World Congress in Cape Town to 2024 gives a future perspective (orange from 2022). Nevertheless, any event depends on the possibility of travelling there, and new variants of the coronavirus may play a crucial role.

FinCom and PIANC are thus facing major uncertainties due to the continuing pandemic. This will affect both spending and revenue to organise such events and may yet adversely influence our financial performance due to the risk of reduced income due to a reduction in membership and subvention payments.

1.2.2 The Online FinCom 72nd Spring Meeting

This meeting took place on 5 May 2021 at 12:00 p.m. (CEST), with the same inconveniences for our Australian and US members.

Once again, we got the opportunity to prove that FinCom is young and vital, because we could congratulate both Geert and Remi on the birth of their daughters!

Another pleasant observation was that the PIANC portfolio had a profit at that time of approximately €20,000, compared to 1 January 2021. However, we must always be careful because this is not a guarantee for the future. In any case, it remains a good decision to have switched to SRI at the time.
The accounting data for the end of April 2021 followed the line of expectations and even positively related to previous years, which was also the case during the rest of the year 2021. This was in fact the reason why we could cancel the third FinCom meeting, which was foreseen in October 2021.

FinCom was happy to ExCom report during the AGA in May 2021 that the monetary management was without worries and a sufficient cash flow was available. There was no reason to adjust the budget and outlook.

During the 72nd FinCom spring meeting it was also mentioned that the digitisation of the archive had ended. From that moment, a method must be sought to make these digitised documents visible and accessible to members. The digitisation costs were lower than anticipated, partly by selecting what could be scanned usefully and what could not. As stated earlier, the storage of the archive required an annual limited expense.

Also during this meeting, the FinCom members were informed about the state of affairs regarding the tender of the IT membership software. A relaunch of the tender was necessary, which resulted in a selection of only two candidates, which their own system an IT architecture.

FinCom is convinced that this membership software can contribute to keeping track of the membership database and to making it easier to determine where problems arise, including late payments. Moreover, it will also facilitate the digital recruitment of new members.

For the time being, five licenses were provided for HQ and thirty for the National Sections. Of course, this high number affects the cost price (licenses), and it remains to be seen to what extent the National Sections will make use of it. FinCom believes this can be examined with a survey. However, much will depend on whether or not the National Sections will have to contribute to the costs. They will have to decide whether or not to enter the HQ IT membership website system.

According to PIANC HQ, a new type of membership can be useful. The current list of members of companies and institutions can have multiple forms of membership of PIANC. Various entities are members of large and small Corporate Members, as well as Platinum Partners. A number of them are present in several countries having a National Section. Some entities have multiples (59), single (22) and redundant (37) memberships. HQ believes that the creation of such ‘General Members’ can simplify the invoicing of these membership fees, because there is only one, instead of in different National Sections individually. Therefore, HQ believes that in such situation a ‘General Membership’ should be preferable, which also needs a new membership fee. This should be implemented now during the set-up of the new IT-membership system.

Not only is the pricing of the new membership important, but also the fact that, when transitioning from current small and large Corporate Members to the General Membership, this could financially damage the National Sections (15-% rule) to which these members currently belong. In addition, if members switch to a General Membership, this may also have consequences for the national subvention paid by the member states, which depends on the number of members in a National Section.

In that case, it should become possible to compensate the National Sections for the loss they would suffer as a result of the transition to a General Membership.

Apart from this, such General Membership encounters many negative imperfections in the European context. Some of the FinCom members fear that such General Members will alienate themselves from the local activities in which they currently participate, or even that they no longer will be a member of the Board of Directors. These candidate ‘General Members’ are mostly private companies, and they should have the right to participate in the operation of the differential sections where they operate.

Therefore, FinCom decided in the end to inform ExCom. So FinCom reported to ExCom about the IT cost implications if in due course later the question for General Membership arises.

During its 72nd meeting, FinCom was also concerned about the possibility of allowing Congresses, seminars and meetings to take place physically in the coming years within the ongoing COVID-19 context. At the time of the meeting, it was reported that China would host PIANC-SMART Rivers in 2022, however, provided that one is vaccinated with a Chinese vaccine. More doubts arose about the PIANC-COPEDEC Conference. If this conference will take place in 2023, it will be too close to the World Congress in March 2024 in South Africa. Concerning the AGA’s, a digital AGA was held in 2021, no venue was determined for 2022 at the time of the FinCom meeting and Oslo and Cape Town will be the venues in 2023 and 2024, respectively.
Currently, specific templates are available for different events (Congress, seminars, etc.), which FinCom would like to see generalised into one unique manual. FinCom believes that a link with the IT system is also very important and necessary. The IT software must contain a link to ‘events and seminars’, so the creation of the manual has been put on hold for now.

Of course, Working Groups and their reports remain the core business of PIANC. However, there is a feeling that participants, at least those who have continued to make efforts to produce the report, at the end are not sufficiently rewarded/recognised for their commitment. FinCom is looking for ways to give them more recognition, by way of a certificate, a letter of thanks, or an initiative involving the whole group. Another opportunity is to hold a celebration during the World Congress, for those who are present.

FinCom also wants to underline the importance of the fact that Working Group participants should be a member of PIANC. This undoubtedly requires a further investigation during 2022!

1.3 The 2021 Financial Outlook

The 2021 financial outlook is characterised by higher incomes than budgeted, but mainly by much lower expenses than expected. Of course, the COVID-19 pandemic plays a central role. On the one hand, fewer trips have been necessary or could not take place due to strict sanitary rules. On the other hand, the new way of communicating and holding webinars, instead of seminars, creates new costs that we did not have until now.

The PIANC HQ portfolio performed well in 2021, courtesy of the decision made at the end of 2019 to switch to the SRI investment platform.

Since the start of 2021, the next graph shows the evolution of the PIANC portfolio. In 2021, a net profit of 3.69 % was achieved.
1.3.1 Summary of the Global Financial Affairs of PIANC

<table>
<thead>
<tr>
<th>Receipts (€)</th>
<th>Actual</th>
<th>Budget</th>
<th>Variance= Actual - Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congresses and Seminars</td>
<td>€ 1,602</td>
<td>€ 2,750</td>
<td>-€ 1,148</td>
</tr>
<tr>
<td>Contributions (Subs.)</td>
<td>€ 344,494</td>
<td>€ 335,000</td>
<td>€ 8,494</td>
</tr>
<tr>
<td>Subventions</td>
<td>€ 172,900</td>
<td>€ 165,000</td>
<td>€ 7,900</td>
</tr>
<tr>
<td>Platinum Partners</td>
<td>€ 57,500</td>
<td>€ 47,500</td>
<td>€ 10,000</td>
</tr>
<tr>
<td>Sales</td>
<td>€ 16,325</td>
<td>€ 13,000</td>
<td>€ 3,325</td>
</tr>
<tr>
<td>Financial income</td>
<td>€ 51,004</td>
<td>€ 20,000</td>
<td>€ 31,004</td>
</tr>
<tr>
<td>Other income</td>
<td>€ 3,795</td>
<td>€ 5,000</td>
<td>-€ 1,205</td>
</tr>
<tr>
<td>Total income</td>
<td>€ 646,620</td>
<td>€ 588,250</td>
<td>-€ 58,370</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditure (€)</th>
<th>Actual</th>
<th>Budget</th>
<th>Variance= Actual - Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congresses and Seminars</td>
<td>€ 32,572</td>
<td>€ 72,500</td>
<td>-€ 39,928</td>
</tr>
<tr>
<td>Commissions</td>
<td>2,201</td>
<td>€ 10,000</td>
<td>-€ 7,799</td>
</tr>
<tr>
<td>De Paepe-Willems Award</td>
<td>€ 7,000</td>
<td>€ 10,000</td>
<td>-€ 3,000</td>
</tr>
<tr>
<td>Headquarters</td>
<td>€ 398,121</td>
<td>€ 453,000</td>
<td>-€ 54,879</td>
</tr>
<tr>
<td>Financial Charges, Taxes, etc.</td>
<td>€ 40,407</td>
<td>€ 41,000</td>
<td>€ 593</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>€ 480,301</td>
<td>€ 586,500</td>
<td>-€ 106,199</td>
</tr>
<tr>
<td>Surplus (€)</td>
<td>€ 166,319</td>
<td>-€ 1,148</td>
<td>€ 164,569</td>
</tr>
</tbody>
</table>

Table 1: Summary of the financial results 2021

The summary shows that the global financial affairs of PIANC have continued to do particularly well. Income from subscriptions on the one hand € 343,494 [2021] > € 339,420 [2020] was only once surpassed in 2019 and increased slightly in 2021, compared to 2020. The 2021 result is 2.5 % higher than estimated in the budget. On the other hand, subventions increased by 1.7 % related to 2020 and are higher in absolute terms than in all recent previous years (€ 172,900 [2021] > € 170,050 [2020] > € 165,300 [2019]).

The financial income from the PIANC HQ portfolio is extremely positive: + € 45,766. Revenues from the sales of Working Group reports exceed the expectations. On the other hand, there is an expected negative result from the income from seminars and congresses, for which we have to look for replacement income.

While the estimated income budget is roughly 10 % better in reality (€ 646,620 / € 588,250), this is even doubly ‘trumped’ on the expenditure side (€ 586,500 / € 480,301 = 22 %). And here, too, the break-up of congresses and seminars makes itself felt. Where a resurgence in the second half of 2021 was the prospect, these meetings could not take place and resulted in significantly less spending.

Moreover, the De Paepe-Willems Award, as expenses for PIANC HQ, were lower than expected. The expenses for taxes and charges correspond to what was budgeted.

This relative calm situation was used to focus further on both the new membership software and on the finalisation of the digitisation of the PIANC Archive.

Concerning advertising in the Yearbook, FinCom stands by its proposal that National Sections, etc., should seek advertising and sponsorship support by companies and institutions, so that the Yearbook can continue to be published in a digital version and at the same time makes a profit for the Association.

The value of the actual global PIANC portfolio was € 1,363,663 as of 31 December 2021, compared to € 1,217,897 as of 31 December 2020. This result is an improvement of about roughly + 3.69 %, which can be considered really successful in COVID-19 pandemic times. Moreover, the portfolio has increased partly due to the contribution input of € 100,000 from previous positive results of the financial results for 2020.
To summarise the financial items, a large surplus of €166,319 is generated to be added to the reserves of PIANC in the coming months, instead of an expected break-even, as included in the 2021 budget. Once again, is this the result of the pandemic? This result should not be seen too optimistically, because we cannot predict how long the revenues of our conferences and seminars will be postponed in the coming years.

1.3.2 Membership

<table>
<thead>
<tr>
<th>Date</th>
<th>31 Dec 2021</th>
<th>31 Dec 2020</th>
<th>Evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Members</td>
<td>1,553 (+36)</td>
<td>1,632 (+36)</td>
<td>-79 (+36)</td>
</tr>
<tr>
<td>Corporate Members + Platinum Partners</td>
<td>512</td>
<td>502</td>
<td>+10</td>
</tr>
<tr>
<td>Student/Life/Honorary Members</td>
<td>137</td>
<td>132</td>
<td>+5</td>
</tr>
<tr>
<td>Total</td>
<td>2,202 (2,238)</td>
<td>2,266 (2,302)</td>
<td>-64 (68)</td>
</tr>
</tbody>
</table>

Table 2: Development of PIANC Membership 2020-2021

Unfortunately, the membership level has decreased once again in 2021 by 74 Individual Members, or minus 4.2 % in one year, which is also due to the COVID-19 pandemic. However, we have to bear in mind that 36 Individual Members of The Philippines have been put ‘on hold’, related to the PIANC-COPEDEC Conference. Nevertheless, based on this assumption, and as the PIANC-COPEDEC influence was also the case in 2020, this loss of 74 Individual Members is now absolute.

Fortunately, this loss is partly compensated by the growth of Corporate Members. The Corporate Members increased by 10 organisations, +2 % in percentage terms, and PIANC manages for the second time to break through the magical barrier of 500 Corporates (small/large/Platinum) again since 2011. We also note a slight increase of Student Members, Life and Honorary Members, but they have of course a minor impact on the PIANC financial income.

FinCom believes that PIANC must be very concerned about its membership evolution and thinks that in particular, all Working Group members must join PIANC as a member. These measures can boost Individual Membership. Furthermore, FinCom believes that subscriptions and subventions are decisive for the income of PIANC, as well as the need to look for new revenues, generated by, for example, webinars. They are replacing our seminars and conferences that can temporarily not be held due to the COVID-19 pandemic. These webinars also increase the workload of the PIANC HQ-team.

Once again, we repeat that PIANC’s core business lies with the Working Group reports, which should be a major reason to attract new members. Furthermore, it is up to the National Sections to keep their (Corporate) Members on board, in order to ensure that the membership records are up to date so that the correct charges can be made for subscription and subvention payments, and once invoiced, are paid promptly. It looks like some National Sections failed in achieving this in 2021.

The financial sustainability of PIANC is totally reliant on these sources of income and is a challenge that continues to be looked at in some detail by both FinCom and ExCom, especially during the pandemic period, which until now have a significant negative impact on membership and which must be remedied, by the actions of both PIANC HQ and the National Sections.

Yours sincerely,

Ian White
Chairman of PIANC FinCom

Herbert Smitz
Secretary of PIANC FinCom
2 REPORT OF THE MARITIME COMMISSION (MARCOM) 2021

2.1 General

2.1.1 Programme

Throughout 2021, MarCom endeavoured to fulfil its paramount role within PIANC. Despite continued challenges related to the COVID-19 pandemic, MarCom activities progressed very well, including the enhanced global presence by MarCom as reflected in its diversified active memberships as well as the ongoing progress by the many working groups of the Commission.

In addition to the WG 205 report which was published in 2021, titled: ‘Planning for Automation of Container Terminals’, heeding the ever-increasing global demands for a more sustainable, cost-effective and safer mode of container terminals operations, two other Working Groups have nearly finalised their reports and are on the verge of being submitted to the PIANC HQ in 2022:

- **WG 167 – ‘Design of Terminals for Ro-Ro and Ro-Pax Vessels’**: in line with the MarCom policy to supersede past popular reports, a comprehensive treatment of this topic has been achieved within the new guidelines to serve as a state-of-the-art compendium on the topic.
- **WG 200 – ‘Recommendations for the Design and Assessment of SPM or MPM Facilities’**: an excellent manuscript dedicated to serve as a knowledge source on this much sought after topic, welcomed as a specialised topic addition to PIANC’s publications catalogue.

The PIANC Strategic Plan (2019-2023) has been reviewed from time to time to keep steering towards a suitable course of action by MarCom. In the same vein, a MarCom Expertise SWOT Analysis has been undertaken and the outcome file has been uploaded to the PIANC SharePoint as a living document.

This year, the technical cooperation between MarCom and OCIMF continued very well and it is expected to be enhanced in 2022, after the planned introduction of an OCIMF-representative within MarCom and vice versa, upon signing of the cooperation MoU in January 2022, formalising an already long-standing relationship.

In line with PIANC policies, MarCom continued in 2021 to scientifically support the ‘Marlog 10’ conference, held every year in Alexandria, Egypt, which attracts diverse participation from around the globe, including Asia and Europe.

MarCom also participated in practical matters, such as providing feedback on the Copyright Form designed to aim for a simplified, friendly, and effective means of indemnifying PIANC against any future third-party intellectual property claims pertaining to any material used in future PIANC publications.

2.1.2 Meetings & Presentations

In 2021, 6 online Commission Meetings were held by MarCom due to pandemic restrictions, to substitute for the much missed physical meetings:

2.1.2.1 2 Spring Meetings:

- **17 March 2021**: Mr Michael Grace, who already served in the capacity of alternate MarCom member earlier, will take on the new designation of the UK’s main member. An internal review of the close coordination with HQ and other PIANC commissions’ activities by MarCom took place. A number of topics for possible new Terms of References were brainstormed. In addition, three new Terms of References, approved by ExCom, were discussed to form new MarCom Working Groups.

- **07 April 2021**: A presentation on ‘Sea Level Rise Adaptation’ was made by Mr Joost de Nooijer. An interactive webinar to enhance the visibility of MarCom activities was proposed. A new alternate member for UK was also welcomed.
2.1.2.2 2 Summer Meetings:

- 09 June 2021: A presentation was provided by Mr Tore Lundestad regarding the work developed by the UN Sustainable Development Goals subgroup within MarCom to strive for a PIANC policy document on ports’ sustainability strategy. The challenge of how to best integrate this work into ongoing activities of the Commission was discussed.

- 30 June 2021: Draft report presentation of WG 167 – ‘Design of Terminals for RoRo and RoPax Vessels’, by Mr S. Osborn met the Commission’s expectations in terms of quality and scope of coverage of these new guidelines. Discussions on candidate terms of reference for developing new terms of reference regarding future Working Groups continued among other activities.

2.1.2.3 2 Winter Meetings:

- 27 October 2021: To replace the late Mr Peter Fountain, Mr Scott Keane, previously serving as the Alternate Member, will take over the role of the main member of Australia & New Zealand. Moreover, MarCom welcomed the new member from Brazil/ANTAQ. MarCom reflects internally after its ports’ sustainability strategy presentation to ExCom and there is a recommendation to include the results in the work plan of all other PIANC Commissions. Notably, there may be close coordination needed with EnviCom when creating new MarCom reports to manage any interface issues and prevent an overlap.

- 10 November 2021: MarCom welcomed a new Alternate Member from Brazil/ANTAQ, as well as a new Young Professional member from Argentina. A presentation was made on the report dedicated to ‘Ship Dimensions for Planning and Designing Marine Infrastructures’, by Mr Bob Lamont-Smith. This report will help ensure better consistency of ship characteristics data to be used in future across the many MarCom publications which often require such data.

2.1.3 MarCom Membership

In 2021 MarCom has welcomed the following new members:

- Mr Leandro Pitton Straface, as Argentina’s Young Professional Member
- Mr Diego Barbosa Amorim, as the Member from Brazil/ANTAQ
- Mr Lars Stemmler, as Germany’s Alternate Member
- Mr Carlito M. Castillo, as Philippines’ Alternate Member
- Mr Mark McBride, as UK’s Alternate Member
- Mr James Palmer, as UK’s Young Professional Member

On a very sad note, Mr Peter Fountain, representing Australia for many years, who was a highly revered and much loved member of the MarCom community, passed away in his sleep during the night of 5 September 2021: Peter was a model gentlemen who was professional and very well respected throughout his very successful professional life. Peter was invited to nominate for the PIANC Board when it started in the post Government support era in 1998 as the minutes of the transition Board meeting on 20 November 1998 noted and retired from the Board in May 2014 to allow a refresh. This of course just started another important journey for Peter as the ANZ MarCom representative which he pursued with his usual vigour and his astute wisdom of all things maritime.

Mr Mohammadreza Allahyar will no longer represent Iran in MarCom as he has moved to other duties within CoCom.

In summary, as of December 2021, there are currently 53 MarCom members, including 12 Alternate members, 8 Young Professional Members, and 1 YP-Com Observer, representing 27 National Sections within PIANC.
2.2 Publications

In 2021, the following MarCom Working Group report was published by PIANC.

**MarCom WG 208 – ‘Planning for Automation of Container Terminals’**
*Chairman: Mr Ashebir Jacob*

**Published March 2021**

To address the important and rapidly rising demand within the ports industry around the globe, because relatively few container terminals have achieved full or partial automation to-date, these guidelines were created to facilitate the utilisation of semi-automatic or fully automatic solutions which will define the future sought after state of operations in a more cost-effective manner with a major emphasis on safety concerns. This topic is even more relevant today post-COVID-19 now that it has been proven that container terminals with some measure of automation may indeed fare better during a pandemic outbreak in terms of preventing substantial throughput losses compared to those relying on traditional operational models with less advanced equipment needing to utilise more manpower. The increased focus on the environment as an additional theme within this manuscript also underscores the sustainable nature of the move toward container terminal automation by for example opting for more cranes in various small, medium and large container terminals using equipment powered by electrical batteries to reduce greenhouse gas emissions in line with UNSDGs.

2.3 Progress of MarCom Working Groups

This section summarises the status of ongoing MarCom Working Groups progress by the end of December 2021, as follows:

- **WG 153B – ‘Recommendations for the Design and Assessment of Marine Oil, Gas and Petrochemical Terminals’**
  Draft report is expected by February 2022.

- **WG 164 – ‘Upgrade of Port Terminals by Increasing Dredged Depth’**
  The WG is re-grouping with more new candidates from Argentina, France, Australia and Portugal.

- **WG 167 – ‘Design of Terminals for Ro-Ro and Ro-Pax Vessels’**
  Excellent draft report presentation to MarCom in June 2021. Early 2022, the final report is to be sent to HQ.

- **WG 171 – ‘Ship Handling Simulation Dedicated to Channel and Harbour Design’**
  Draft report to be presented in June 2022.

- **WG 180 – ‘Guidelines for Protecting Berthing Structures from Scour Caused by Ships’**
  Draft report presentation was planned for the end of Q3 in 2021. However, an internal review caused a rescheduling as the German authorities are now updating the related BAWW standards and the WG is to coordinate with them.

- **WG 186 – ‘Mooring of Large Ships at Quay Walls’**
  Draft report is expected by the end of Q2/2022.

- **WG 187 – ‘Protection of Undersea Pipelines and Cables in Navigable Areas’**
  A new Chairman has been designated for continuing the work.

- **WG 194 – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’**
  The draft report presentation to MarCom was expected in 2021, but has been postponed.

- **WG 199 – ‘Health Monitoring for Port and Waterway Structures’**
  Joint WG by participation of both InCom-MarCom under progress.
• **WG 200 – ‘Recommendations for the Design and Assessment of SPM or MPM Facilities’**
  Final report is planned to be sent to HQ for publishing in early 2022. Relatively minor comments, such as preventing pictures’ copyright issues, need to be addressed by WG.

• **WG 205 – ‘Design and Construction of Breakwaters on Soft Seabeds’**
  WG in progress. Expected to finish draft report by spring 2022.

• **WG 211 – ‘Guidelines for the Design of Fender Systems’**
  WG draft report expected by 2022.

• **WG 212 – ‘Criteria for Acceptable Movement of Ships at Berths’**
  WG is making good progress.

• **WG 213 – ‘Design Guidelines for Marine Multipurpose Terminals’**
  WG is progressing. Final report expected by mid-2022.

• **WG 215 – ‘Accidental Impacts from Ships on Fixed Structures’**
  WG is progressing. Presentation expected in 2022.

• **WG 224 – ‘Planning of Fishing Ports’**
  New Chairman on board and WG is in progress.

• **WG 225 – ‘Seismic Design Guidelines for Port Structures’**
  Very active WG, progressing on the tasks.

• **WG 231 – ‘Mooring Bollards & Hooks: Selection, Maintenance and Testing’**
  WG in progress. Some overlap with WG 186 has been detected to be discussed when WG 186 draft report will be ready. Need to review any other overlap with final reports of WG’s 167, 211 and 231.

• **WG 232 – ‘Metocean-Related Risks During the Construction of Marine Works’**
  WG in progress. A MarCom meeting was requested for February 2022.

• **WG 233 – ‘Inspection, Maintenance and Repair of Waterfront Facilities’**
  WG in progress.

• **WG 235 – ‘Ship Dimensions for Planning and Designing Marine Infrastructure’**
  WG to present in 2022.

• **WG 238 – ‘BIM Marine Projects’**
  New WG has started.

• **WG 239 – ‘Tsunami Mitigation in Ports’**
  New WG has started.

• **WG 240 – ‘Guidance for Ports in Small Island Countries’**
  New WG has started.

### 2.4 Approved Terms of Reference

The following Terms of Reference were deemed as approved by HQ in 2021:

- ‘BIM Application in Marine Projects’
- ‘Tsunami Mitigation in Ports’
- ‘Guidance for Ports in Small Island Countries’ (with ADB/PRIF on board)

### 2.5 Terms of Reference in Discussion Expected to be Submitted to ExCom in 2022

The following Terms of Reference are kept in discussion for future MarCom Working Groups:

- ‘Planning & Implementation of Onshore Power Supply (OPS) for Ships in Ports’ with interest to participate from EOEPSA and energy companies
- ‘Retrofitting of Existing Maritime and Fluvial Infrastructures to a Changing Climate’
- ‘Safety by Design and Execution of Maritime Projects, a Best Practices Guidelines’
- ‘Sustainable Ports Pavements’
2.6 Cooperation with Other Commissions

MarCom continues to have a member in the Permanent Task Group on Climate Change (PTG CC). Moreover, cooperation with InCom is still ongoing regarding WG 199 – ‘Health Monitoring for Port and Waterway Structures’.

MarCom also actively participated in the review and selection process for the ‘De Paepe-Willems Award’, which was won by Germany in 2021.

2.7 Ports Sustainability Strategy

A presentation to ExCom was made regarding the new work by MarCom towards preparing a draft strategy paper dedicated to the sustainability in ports, especially within the context of the 17 United Nations Sustainable Development Goals (UNSDGs). Moreover, further emphasis on requiring all active MarCom working groups to ensure references are made in as much as possible to the pertinent UNSDGs and their associated principles was decided upon.

2.8 Webinar(s) on Guidelines

In line with achieving an increased online visibility of MarCom achievements, it has been decided to integrate technical webinars related to new guidelines into annual MarCom events.

For a first such webinar, the outcome of WG 208 (by Mr Ashebir Jacob), WG 145 & WG 211 (by Mr Alfred Roubos), as well as a review on the ‘Evergiven Suez Canal incidence’ (by Mr Evert Lataire), were showcased in February 2022.

Close coordination by MarCom with ExCom on all practical matters such as the choice of the webinar platform and how to facilitate break-out sessions has taken place.

2.9 Pictures

MarCom online April meeting with the late Mr Peter Fountain of PIANC/ANZ being present late through the night
# List of Members of MarCom – December 2021

**Chairman:** Mr Egbert van der Wal, the Netherlands  
**Vice-Chairman:** Mr Babak Banijamali, Iran  
**Secretary:** Mrs Noelia González Patiño, Spain

## 2.10.1 Members

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<td>Brazil/ANITAQ</td>
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<td>Mr Tore Lundestad</td>
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### 2.10.2 Alternate Members:

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<td>Mr Carlito M. Castilo</td>
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<td>Mr Mark Mc Bride</td>
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### 2.10.3 Young Professional (YP) Members:

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<td>Ms Sara Iglesias</td>
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<td>Mr James Palmer</td>
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<td>8</td>
<td>Mr Christopher Thomas</td>
<td>USA</td>
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<tr>
<td>9</td>
<td>Mr Ed Backlund</td>
<td>USA (YP Observer)</td>
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Egbert van der Wal  
Chairman of PIANC MarCom

Noelia González Patiño  
Secretary of PIANC MarCom
3 REPORT OF THE INLAND NAVIGATION COMMISSION (INCOM) 2021

The year 2021, unfortunately, did not bring better way of living and working in comparison to 2020. COVID-19 kept our lives in standstill. Everything is still being done online and the InCom members and Working Group experts around the world did their best to keep the work going.

In 2021, two reports were published, and several kick-off meetings were held for new Working Groups.

3.1 Commission Membership

In 2021, the InCom membership remained stable, and there were no changes.

3.1.1 The InCom Members at the End of 2021 Were:

- Philippe Rigo (Belgium) Chairman
- Jasna Muskatić (Serbia) Secretary
- Leonel Temer (Argentina)
- Jürgen Trögl (Austria)
- Katrin Steindl-Haselbauer (YP, Austria)
- Stefan Devocht (Belgium)
- Catherine Swartenbroekx (YP, Belgium)
- Adalberto Tokarski (Brazil)
- José Renato Ribas Fialho (Brazil)
- Mitko Toshev (Bulgaria)
- Denitsa Mateva (Bulgaria)
- Raphaël Wisselmann (Central Rhine Commission (CCNR))
- Luc Boisclair (Canada)
- Jim Athanasiou (Canada)
- Wu Peng (China)
- Yun Li (China)
- Gensheng Zhao (China)
- Fabio Zapata (Colombia)
- Tero Sikiö (Finland)
- Benoit Deleu (France)
- Fabrice Daly (France)
- Holger Schüttrumpf (Germany)
- Gernot Pauli (Germany)
- Reza Safarí (Iran)
- Takashi Kadono (Japan)
- Choonghyo Lee (South Korea)
- Otto Koedijk (the Netherlands)
- Ricardo Obregon (Peru)
- Hugo Lopes (Portugal)
- Luis Vasconcelos Dias (Portugal)
- Ljubisa Mihajlovic (Serbia)
- Ignacio Sanchidrián Vidal (Spain)
- Rodrigo García Orera (Spain)
- Heather Houston (United Kingdom)
- José Sanchez (USA)
- Brian Tetreault (USA)
- Ton Nu Thi Thanh Yen (Mekong River Commission)
- Jeremy Giovando (USA – PIANC Climate Change Champion)

Experts:

- Akula Nidarshan (India)
- Jorge Enrique Saenz (Colombia)

3.2 Meetings

The Inland Commission held four online meetings during 2021:

- Meeting No. 87, held on 21 January 2021
- Meeting No. 88, held on 1 March 2021
- Meeting No. 89, held on 10 June 2021
- Meeting No. 90, held on 4 October 2021

The main subjects of meetings were:

- Information on activities of the Association
- Update on progress made by various Working Groups
- Preparation of Terms of Reference for new Working Groups
- Promotion of finalised WG-reports
3.3  PIANC-SMART Rivers

The PIANC-SMART Rivers Conference, which is a main event for the PIANC InCom community, was scheduled for October 2021 in China. Due to the ongoing limitations of the COVID-19 pandemic, the event had to be re-scheduled to October 2022, again in China. The Call for Papers was extended to the end of January 2022. However, due to the current COVID-19 situation, a further delay of the conference may happen.

3.4  Published Reports

In 2021, two InCom reports were published:

**WG 197 – ‘Small Hydro Power Plant in Waterways’**
Romain Benvegnu, Nicholas Crosby (Chairman), Austin Flather, Stephane Schleck, Jan Mangelschots, Sebastien Epicum, Kourosh Kayhan, Anton de Fockert, Wouter de Man, Timothy Paulus

**WG 198 – ‘Saltwater Intrusion Mitigation in Inland Waterways’**
Tom O’Mahoney (Chairman), Gary Brown, Tom van der Wekken, Roel Burgers, Olivier Bertrand, Jeroen Hillewaere, (Secretary), Rodrigo Garcia, Rigoberto Delgado, Carsten Thorenz, Luo Xiaofeng, Bart De Maerschalck, Frank Kösters

InCom would like to thank the Chairmen and Members of these two Working Groups for their great work and dedication in the preparation of these reports.

3.5  Progress of Existing Working Groups

  Chair: Piet Creemers
  - With the kick-off held in Lyon during the PIANC-SMART Rivers Conference 2019, this Working Group held three meetings in 2021, and plans to finalise its work by the end of 2022.

- **WG 128 – ‘Alternative Technical-Biological Bank Protection Methods for Inland Waterways’**
  Chair: Bernhard Söhngen
  - The draft version of the report was submitted to InCom for review and it is expected to be published during the first half of 2022.

- **WG 190 – ‘Corrosion Protection of Lock Equipment’**
  Chair: Rebekah Wilson
  - Publication of the work of this Working Group is planned for the second half of 2022.

- **WG 199 – ‘Health Monitoring for Port and Waterway Structures’**
  Chair: Brian Eick
  - In 2021, there was a change of leadership of this Working Group and Mr Brian Eick took over. There is plan to finalise the report in 2022.
- **WG 203** – ‘Sustainable Inland Waterways – A Guide for Waterways Managers on Social and Environmental Impacts’
  Chair: Andreas Dohms
  - The latest meeting was held in October 2021 and the draft report is planned for the beginning of 2022.

- **WG 206** – ‘Update of the Final Report of the International Commission for the Study of Locks’
  Chair: John Clarkson
  - This Working Group held its latest meeting in December 2021, and the draft report is planned for the end of 2022.

- **WG 207** – ‘Innovations in Shiplift Navigation Concepts’
  Chair: Hu Yaan
  - WG 207 is in the final phase of report preparation, and it is planned to have a draft report in the first half of 2022.

- **WG 216** – ‘Best Practices in Planning Inland Waterways Multimodal Platforms’
  Chair: Philippe Rigo
  - As the work of this Working Group was not moving forward, in May 2021, a new Call for Members was sent out to the National Sections and a relaunch of this Working Group was held in October 2021.

- **WG 219** – ‘Guidelines for IW Infrastructure to Facilitate Tourism’
  Chair: Rudy Van der Ween
  - This WG is a joint PIANC-IWI initiative. The new, online, kick-off meeting of this WG was held in February 2021, with the focus on the development guidelines to build a sustainable model for recreational navigation and nautical tourism in inland waterway systems. The WG held four meetings in 2021.

- **WG 228** – ‘Extended Values of ‘Low-Use’ Inland Waterways’
  Chair: Arjan de Heer
  - Progress on the report comprises the discussion on a toolbox to assess waterways on their values as low use inland waterways.

- **WG 229** – ‘Guidelines for Sustainable Performance Indicators for Inland Waterways’
  Chair: Klaas Visser
  - The WG had 7 meetings so far and plans to submit a draft report in the first quarter of 2022.

- **TG 234** – ‘Infrastructure for the Decarbonisation of IWT’
  Chair: Mark van Koningsveld
  - The work of this WG is wrapping up and the final report is planned in the beginning of 2022.

- **WG 236** – ‘Sustainable Management of the Navigability of Free Flow Rivers’
  Chair: Calvin Creech
  - The kick-off meeting of this WG was held as an online meeting in February 2021. During 2021, WG 236 held three meetings, the table of contents was identified and different WG 236 members took on different responsibilities.

- **WG 237** – ‘Bottlenecks and Best Practices of Transport of Containers on Inland Waterways’
  Chair: Iven Krämer
  - The kick-off meeting of this WG was held in June 2021, and during 2021, WG 237 had 3 meetings.

- **WG 241** – ‘Handling Accidents and Calamities in Navigation Hydraulic Structures’
  Chair: Yves Masson
3.6 InCom Webinars

Aiming for a better promotion/dissemination of the newly published PIANC WG-reports, PIANC HQ organised a number of webinars in 2021. The Inland Navigation Commission used the opportunity to present four reports to the community:

- **WG 201** – ‘IW Classification in South America’ (in collaboration with ECLAC), 8 November 2021
- **WG 191** – ‘Composites for Hydraulic Structures’ (Chair: Hota Ranga Rao), 29-30 November 2021
- **WG 197** – ‘Small Hydropower Plant in Waterways’ (Chair: Nicholas Crosby), 24 November 2021
- **WG 198** – ‘Saltwater Intrusion Mitigations and Technologies for Inland Waterways’ (Chair: Tom O’Mahoney), 10 December 2021

All webinars were well received, with a good number of participants. All presentations can be found on the PIANC YouTube channel, as well as on the Publications pages of the respective reports on the PIANC website.

3.7 InCom Website

The InCom website is continuously being updated. It is a very valuable source of relevant information to users and InCom community and a tool to promote inland navigation. It consists of two parts, one public, and another restricted to InCom members. On the public part of the site, visitors can find detailed information on the progress of InCom Working Groups, as well as information on events in which InCom is participating, or organising, as well as InCom’s member details. In the restricted section, InCom members can share specific working documents. More information can be found at the InCom website at: http://incomnews.org

3.8 Other

PIANC HQ has distributed the plea to support the COP26 ‘Navigating a Climate Change’ pledge. A large number of members of the InCom community are already supporting this initiative.

3.9 Conclusion

In the year 2021, the whole world was still in the shadow of the COVID-19 pandemic. Face-to-face meetings were impossible, and the work of the Working Groups remained challenging. Nevertheless, Working Group members kept their work going regardless of the difficulties they were facing. We would like to thank all experts participating in Working Groups for their devotion and hard work in the preparation of professional and high-quality reports.

Philippe Rigo  
Chairman of PIANC InCom

Jasna Muskatirovic  
Secretary of PIANC InCom

Juergen Trögl  
PIANC InCom member

Brian Tetreault  
PIANC InCom member
4 REPORT OF THE ENVIRONMENTAL COMMISSION (ENVICOM) 2021

4.1 Introduction

Sustainable development of infrastructure systems is an emerging priority worldwide. The 17 UN Sustainable Development Goals (SDGs) provide a framework for discussion, deliberation, and the development of infrastructure. Navigation infrastructure provides vital contributions to national economies. Significant investments are being made in new and upgraded navigation infrastructure systems around the world. These investments present important opportunities to incorporate principles and practices that support sustainable development. EnviCom’s strategic initiatives of Working with Nature and the Permanent Task Group on Climate Change (PTG CC) and EnviCom’s Working Groups are actively contributing to this emerging priority. Our goal is to provide practical, science-based guidance to shape and inform future practice in the development of sustainable navigation infrastructure.

4.2 Members

31 members from 19 nations and 6 partner organisations

Chairman: Todd Bridges (USA)
Secretary Edward Brauer (YP, USA)

Country members:
- Argentina: Gerardo Bessone
- Australia: Marika Calfas
- Belgium: Marc Huygens, Filip Vandeputte
- Canada: Danker Kolijn
- Colombia: Ricardo Schmalbach
- Finland: Olli Holm
- France: Paul Scherrer
- Germany: Elmar Fuchs
- India: R.D. Tripathi
- Iran: Nasser Hadjizadeh Zaker
- Japan: Yasuyuki Nakagawa
- Korea: Myounghak Oh
- The Netherlands: Daan Rijks
- Norway: Arne Petterson
- Philippines: Reynand Parafina, Emmer Nonatus A. Cadano,
- South-Korea: Myounghak Oh
- Spain: Rocio López Picón,
- United Kingdom: Jan Brooke, Emily Haggett (YP)
- USA: Burton Suedel, Victor Magar, Andrew McQueen (YP)

Commission representatives:
- Ron Cox (CoCom)
- Kate Panayotou (Climate Change Champion)
- René Kolman (ProCom)

Members from partner organisations:
- IADC: René Kolman
- CEDA: Mieke van Loenen, Frederik Roose
- EUDA: Paris Sansoglou
• CCNR: Kai Kempmann, Raphael Wisselmann
• INE: Karin de Schepper
• Ports Australia: Michael Gallacher

Additionally, the following experts acted as Chairpersons of Working Groups and attended EnviCom meetings in 2021:

• PTG CC: Jan Brooke/Chair (UK)
• PTG EU WFD Navi TG Jan Brooke (UK)
• WwN Jury Elmar Fuchs (DE)
• WG 157 – ‘Environmental Aspects of Dredging and Port and Waterway Construction Around Coastal Plant Habitats’, Matthew Jury
• WG 170 – ‘Best Practices on How to Deal with Sea Turtles and Mammals in Marine Waterway and Port Construction Activities’, Chris McDougall
• WG 174 – ‘Sustainability Reporting for Ports’, Eric de Deckere
• WG 214 – ‘Beneficial Sediment Use’, Victor Magar, Luca Sittoni
• WG 218 – ‘The Implications of Invasive Alien Species for Waterborne Transport Infrastructure’, Safra Altman
• WG 230 – ‘How to Attract Green Funding for Nature Based Navigation Infrastructure’, Arjan Hijdra

4.3 Meetings

All EnviCom business was held virtually in 2021.

The 54th meeting was held virtually on 26-27 January 2021.

Photo: 54th EnviCom meeting

In addition to the formal EnviCom meetings, virtual meetings were held bi-monthly.
4.3.1 Meetings in 2022:

- 1-2 February 2022
- Virtual bi-monthly meetings are being held throughout 2022

4.4 Working Groups, Technical Recommendations and Guidance

EnviCom continued its work in 2021 in the following fields:

4.4.1 Dredging:

WG 157 – ‘Environmental Aspects of Dredging, Port and Waterway Construction around Coastal Plant Habitats’
Chair: James Matt Jury (DHI and IADC), EnviCom mentor is Rene Kolman (IADC)

The work continues on the topic of environmental aspects of dredging, port and waterway construction around coastal plant habitats. The working group finalised the writing process in the course of 2022 and the report has been reviewed by PIANC and external experts. Publication is foreseen in the course of 2022.

WG 214 – ‘Sediment Beneficial Use’
Chair: Victor Magar (US) and Luca Sittoni (CEDA) – EnviCom mentor: Burton Suedel (US)

PIANC EnviCom WG 214 on ‘Beneficial Sediment Use’ continued progress towards completing the ‘Sediment Beneficial Use’ Guidance report. The report was peer-reviewed by EnviCom members in Q4 2021. A final revision was prepared in Q4 2021/Q1 2022, and the draft-final report was resubmitted to EnviCom on 4 April 2022 for a final review, before publishing in Q2 2022.

4.4.2 Navigation:

WG 218 – ‘The Implications of Alien Invasive Species for Waterborne Transport Infrastructure’
Chair: Safra Altman (USA), EnviCom mentor: Jan Brooke (UK)

Working Group 218 had its initial kick-off in December of 2019, but really got going after its one (and only) in-person meeting in Brussels in January 2020. During the January meeting, the group agreed to the Terms of Reference, voted on the WG Chair and Secretary and developed a Table of Contents, outline and plan forward for report development with a target date of publication in December 2022.
The WG currently has eleven members. Following the initial in-person meeting, the WG adapted to a virtual approach as travel became restricted across the globe. To date, WG 218 has held one in-person meeting (January 2020), and quarterly virtual work days in lieu of face to face meetings. In addition, the WG is also holding monthly meetings in between scheduled virtual work days. The report is progressing well with an anticipated publication date of spring 2023. A supporting database of AIS of concern for waterborne transport infrastructure and species specific case studies are also under development.

Chair: Spencer Shute (Australia), EnviCom mentor: Daan Rijks (the Netherlands)

Working Group 226 will provide a description of underwater sound and its sources as well as an overview of potential environmental effects based on risk evaluation and realistic management measures. The report scope focuses on providing technical information to decision makers regarding the risk assessment and management process for underwater sound. The risk methodology draws from existing approaches and best practices worldwide and will be written using understandable terms.

The WG has ten members from 8 countries. Spencer Shute (MBS Environmental) is chair and Andrew McQueen (USACE) secretary. Due to COVID-19, the WG held monthly virtual meetings discussing content for the chapters as well as the overarching risk assessment frameworks and management options.

Photo: WG 226 team discussing the risk assessment framework during an online session December 2021

The report is progressing well and is in its final stages. Case studies are being prepared to act as tangible examples and inspiration for the reader.

Due to the ongoing COVID-19 situation and restrictions on travel, WG 226 set aside two virtual meetings in 2021 for group members to present ‘2 mins of fame’ on themselves. It is clear that the team is an outdoors loving bunch, with a diverse range of qualifications and experience, and an eclectic taste in music!!

Chair: Rebecca Gardner (USA), EnviCom mentor: Daan Rijks (the Netherlands)

Environmental windows and seasonal restrictions are a common measure used to mitigate impacts of navigation infrastructure construction- and maintenance works. Defining these windows in a sound manner is a challenging but important part of the mitigation process and should be based on the local
ecological-, physical- and social environment, type-, intensity- and frequency of the works and existing rules and regulations whilst taking into account the existing background situation.

The objective of the WG is to provide a framework (i.e. a method or approach) which is accessible (easy to understand and apply) and robust (consistently yields the correct result) and which can be applied universally in cases where seasonal restrictions on navigation infrastructure works may be considered. The framework provides guidance on how to define the intensity (what is possible) and the ‘borders’ (how long) the seasonal restrictions need to be implemented.

The WG held its first full Working Group meeting on 17 December 2021. The group includes members from five continents, which is expected to result in a guidance document that includes a comprehensive summary of the best international practices and technical approaches.

During the meeting, spirited discussions were held regarding the purpose and need for environmental windows and seasonal restrictions, including the benefits and detriments of applying them.

The group has taken several action items and will hold an in-person working meeting in Delft this coming June. An initial draft of the document is expected in late 2022.

4.4.3 Other Active Working Groups

Other active working groups within EnviCom include:

- **WG 170** – ‘Dredging Operations and Port Construction around Marine Turtles and Mammals’
  Chair: Chris McDougall, EnviCom mentor is Rene Kolman (IADC)

- **IAPH-PIANC WG 174** – ‘Sustainability Reporting for Ports’
  Chair: Eric de Deckere (IAPH), EnviCom/PTG CC

- **WG 230** – ‘How to Attract Green Funding for Nature Based Navigation Infrastructure’
  Chair: Arjan Hijdra, EnviCom mentor: Todd Bridges (USA)

4.5 Headline Activities in 2021

While 2021 was a busy (virtual) year for the PIANC-led WFD Navigation Task Group, the main activity of relevance to PIANC members was the finalisation of a new technical document on Sediment Management in the context of the EU Water Framework Directive. This document, which is being endorsed for publication early in 2022, outlines good practice with regard to catchment scale understanding of sediment dynamics; explains how sediment quantity (the right amount of the right ‘type’ of sediment, in the right place at the right time) contributes to the achievement of the WFD ecological objectives; how sediment quality can affect both chemical and ecological status; what measures can be taken to management sediment effectively at different scales; and the role of integrated sediment management planning. Whilst the document has been developed in a European WFD context, the documented good practice and lessons learned are mostly applicable globally.

The next WFD Work Programme (2022-2024) will include activities aligned with the European Green Deal, for example on Zero Pollution (where the NAVI TG has secured a seat on the Stakeholder Forum; the target of restoring 25,000 km of free-flowing rivers under the 2030 EU Biodiversity Strategy; and climate change adaptation.

In November 2021, three EnviCom members delivered presentations and participated in panel sessions at the COP26 International Maritime Hub convened in Glasgow, in parallel with the COP26 international summit, on the topic of Practical climate change adaptation challenges and good practice solutions for ports. The event, organised by the UK ports, was a hybrid virtual/in-person event, allowing representation from across the world.

4.6 The Future

The year 2022 starts another busy and productive year for EnviCom. Several of our WGs will be completing their work in 2022 including those on ecosystem services and sediment beneficial use. Several new Terms of Reference are under active development, which will lead to new WGs on a
range of topics of importance to the navigation sector, including restrictions on dredging, invasive species, and dredging impacts from underwater sounds.

We express our deep gratitude to all our EnviCom members, WG/TG Chairs and Secretaries, WG/TG members, our partners and supporting colleagues for the important work they are doing to advance the development of sustainable navigation infrastructure.

We are looking forward to working together in 2022.

Todd Bridges & Edward Brauer
Chairman       Secretary
5 UPDATE ON THE ACTIVITIES OF THE NAVIGATING A CHANGING CLIMATE INITIATIVE

Permanent Task Group on Climate Change (PTG CC)

PIANC’s PTG CC held full virtual meetings in March, June and December 2021. Several additional subgroup meetings were also held in 2021 as work progressed on the revision of the Task Group 3 report (Waterborne Transport, Ports and Waterways: Climate Change Drivers and Impacts) being led by Stef Boersen and Ron Cox; and the development of a Technical Note on dealing with climate change uncertainties. Both of these are due for publication in 2022.

PTG CC Chair, Jan Brooke, supported by Secretary Monica A. Altamirano, welcomed several new members to the PTG CC over the course of the year, including new National Section representatives from Argentina, Spain, France and South Africa. PIANC Sister Associations Inland Waterways International and ICOMIA, also nominated new PTG CC representatives.

Our PIANC ‘Climate Change Champions’ are now embedded in each of the Technical Commissions, helping to strengthen interactions and ensure the PTG CC meets the needs of the wider PIANC membership. 2021 saw new Terms of Reference involving climate change-related topics being prepared by MarCom, InCom and RecCom. The development of a new expertise register for PTG CC members will enable the Commissions, through the Climate Change Champions, to identify individuals with the skills and experience needed to support such activities going forward.

The PTG CC website has also undergone a review during 2021 led by UK-YP Johan Skanberg-Tippen. And finally, many PTG CC members were active in organising virtual workshops and making presentations at events, particularly during a very busy second half of the year. These included:

In August 2021, Katherine Chambers organised a virtual event ‘Assessing Resilience: Case Studies and a Path Forward for the Marine and Inland Waterborne Transportation System’ where PIANC’s TG 193 report, Resilience of the Maritime and Inland Waterborne Transport System, was presented. This event can be watched at https://www.youtube.com/watch?v=GxttSTXhy2E.

In September, Bill Miles, Burton Suedel and Brian Joyner presented on behalf of PTG CC at the 2021 World Canals Congress in Maryland, USA. Their presentation was entitled ‘PIANC and its Role Addressing Climate Change Challenges to Inland Waterways’. Also in September, Jan Brooke presented on WG 178 (‘Climate Change Adaptation Planning for Ports and Inland Waterways’) to the UNECE Group of Experts on Assessment of Climate Change Impacts and Adaptation for Inland Transport.

In October, Jan Brooke and Monica Altamirano contributed to two sessions at the Adaptation Futures (virtual) conference as part of a series of sessions on transport adaptation. Monica organised a session entitled ‘Transport Adaptation: Collaboration and Innovative Financing to Drive a Paradigm Shift’. Jan organised and presented at a session entitled ‘Climate Change Adaptation for the Transport Sector: Tools and Methodologies, Case Studies and Lessons Learnt’. More information on Adaptation Futures can be found at http://adaptationfutures2020.in/. Also in October, Monica presented on ‘The Roles and Goals of PTG CC and NavClimate within PIANC’ to a Board meeting of the Dutch Section of PIANC.

Then, in November, YP-Com PTG CC rep Ingrid Lambert made a presentation entitled ‘Climate and Disaster Resilience for Ports through Adaptation Planning: Overview of PIANC WG 178 Report’, to the PIANC Young Professional International Virtual Event, see PIANC YP webinar Day 2 mp4 - YouTube.

The PIANC WG 178 report was also the subject of two further presentations in November, at COP26, the international conference of the parties to the UN Framework Convention on Climate Change, held in Glasgow, Scotland. Jan Brooke, as Chair of PIANC’s PTG CC, had the opportunity to present this guidance at the UK-organised conference Practical Climate Change Adaptation Solutions for Ports. (see https://www.maritimeuk.org/imh-2021/imh-events/practical-climate-change-adaptation-challenges-and-good-practice-solutions-ports/).
PIANC EnviCom members Marika Calfas and Gerado Bessone also presented at this event. Jan then presented in the COP26 Resilience Hub on 10 November at the session on ‘Future Proofing Transport: Design Codes and Standards’ (see https://cop-resilience-hub.org/cop26-event-videos/).

5.1 Update on the Activities of the Navigating a Changing Climate Initiative

Navigating a Changing Climate (NavClimate) is a global, multi-stakeholder partnership of associations with interests in waterborne transport infrastructure. These associations work together, as a Global Climate Action initiative, to support the sector as it responds to climate change (http://navclimate.pianc.org). More than 50 supporter organisations are also committed to the partnership’s aims.

After a busy year, the second half of 2021 saw a change of Focal Point for the NavClimate initiative. PIANC, who have led the initiative since its inception in 2015, handed over the helm to The Resilience Shift, part of Resilience Rising https://resiliencerisingglobal.org/, a global, non-profit consortium dedicated to accelerating a safe, resilient, and sustainable future for all.

Jan Brooke of PIANC, and Mark Button, The Resilience Shift’s incoming Focal Point, were both present at COP26 to report on progress with the initiative over the year. This included the launch, in Glasgow, of the COP26 Sediment Management Pledge, see https://sednet.org/climate-change-and-sediment-management-pledge/. This pledge, which sets out a series of actions that can be taken to protect and enhance both the blue carbon and natural resilience properties of aquatic habitats, was the outcome of a joint Navigating a Changing Climate and SedNet workshop in February 2021. Later in the year, in September, NavClimate partnered with PIANC’s EnviCom and NavClimate supporter Ramboll to run a follow up workshop, Working with Nature for Climate-Resilient Ports and Waterways. More information on this workshop is available at https://www.pianc.org/working-with-nature-for-climate-resilient-ports-and-waterways-online-workshop.

In 2022, under the lead of The Resilience Shift, a new multi-year Navigating a Changing Climate Action Plan will be developed and implemented to progress the urgent parallel agendas of climate change mitigation and adaptation. This new Action Plan will bring together the climate-related activities being undertaken by each of the partner associations – including PIANC – as well as shaping new collaborative initiatives to ensure a joined-up approach to delivering the transformational action required of the sector. PIANC will continue to contribute to the NavClimate initiative’s objectives via its technical guidance documents and events organised by members of the PTG CC.

Jan Brooke
Chairperson of the PTG CC
6 REPORT OF THE CO-OPERATION COMMISSION (COCOM) 2021

6.1 Introduction

2021 has been a year of changes for CoCom. During this year, after eight years, CoCom said goodbye to the old Chairmen, Mr Edward Schmeltz and Mr Akula R. Rao. During the 84th Council Meeting on 24 March 2021, PIANC welcomed Mr Abbas Sarmad and Mr Mohammad Reza Allahyar as new Chairmen of CoCom.

On many levels, this was a challenging year; however, it also created many opportunities to discover various ways of communication and collaboration. In order to start a new chapter, the CoCom members decided to hold virtual meetings every three months.

6.2 Core Activities

Some of the core activities of PIANC CoCom are as follows:

- Performing relevant parts of PIANC’s Strategic Plan.
- Increasing the membership of PIANC by involving countries including those without National Section or QM status in the association.
- Enhancing PIANC’s presence in Countries in Transition.
- Create practical tools and methods to disseminate and communicate information among countries without full National Sections.
- Guide and assist in organising the quadrennial PIANC-COPEDEC Conference.
- Organising regional programmes or other low-cost activities.
- Developing new tools for knowledge transfer.
- Close cooperation with PIANC Commissions.
- Focus on virtual platforms and communication to introduce the Association.

6.3 Communication

In order to enhance communication and expedite the process of exchanging ideas, thoughts, and information, members use a WhatsApp group, in addition to communicating via email.

6.4 Members of Commissions

In 2021, there have been significant changes concerning the CoCom membership, including the designation of new CoCom Co-Chairmen and a new CoCom Secretary: Mr Mohammad Reza Allahyar and Mr Abbas Sarmad were designated by the ExCom as new CoCom Co-Chairmen and Mr Mohammad Hossein Nemati as the new CoCom Secretary.

The Commission members are:

<table>
<thead>
<tr>
<th>Members</th>
<th>Country</th>
<th>Members</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mohammad Reza Allahyar</td>
<td>Iran (Co-Chairman)</td>
<td>Bum Shik Shin</td>
<td>Korea</td>
</tr>
<tr>
<td>Abbas Sarmad</td>
<td>USA (Co-Chairman)</td>
<td>Daphne Thoon</td>
<td>Belgium</td>
</tr>
<tr>
<td>Mohammad Hossein Nemati</td>
<td>Iran (Secretary)</td>
<td>Herman Pals</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Hartmut Brühl</td>
<td>Germany</td>
<td>Geert Van Cappellen</td>
<td>Secretary-General PIANC, Belgium</td>
</tr>
<tr>
<td>Ron Cox</td>
<td>Australia</td>
<td>Jefferson Vianna Bandeira</td>
<td>Brazil</td>
</tr>
<tr>
<td>Calvin Creech</td>
<td>USA</td>
<td>Freddy Wens</td>
<td>Belgium</td>
</tr>
<tr>
<td>Jean-Marc Deplaix</td>
<td>France</td>
<td>Han Ligteringen</td>
<td>The Netherlands (Observer)</td>
</tr>
<tr>
<td>Enrique De Farago Botella</td>
<td>Spain</td>
<td>Lillian Almodovar</td>
<td>USA (Observer)</td>
</tr>
<tr>
<td>Rogelio Gordon</td>
<td>Panama</td>
<td>Kevin Knight</td>
<td>The Netherlands (Observer)</td>
</tr>
<tr>
<td>Kenji Ono</td>
<td>Japan</td>
<td>Ronald Stive</td>
<td>USA (Observer)</td>
</tr>
<tr>
<td>Hector Miole</td>
<td>The Philippines</td>
<td>Young-Min OH</td>
<td>Korea (Observer)</td>
</tr>
<tr>
<td>Jose-Luis Monso</td>
<td>Spain (Alternate)</td>
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</table>
6.5 CoCom Meetings

Due to the limitations and restrictions engendered by the COVID-19 pandemic, the CoCom members decided to hold virtual meetings. The 97th meeting was held on 28 June 2021.

The meeting was chaired by the new Co-Chairs, Mr Abbas Sarmad and Mr Mohammadreza Allahyar. In order to promote CoCom’s activities, some questions were sent to all members before the meeting. During this meeting, the members represented their perspectives about the questions.

Moreover, it was decided to take a look at the list of target countries and to organise more meetings.

The 98th meeting was held on 4 October 2021. The meeting was chaired by the Co-Chairs, Mr Abbas Sarmad and Mr Mohammadreza Allahyar. This meeting was started by representing the recent activities of CoCom Chairmen. The main focus was on the list of target countries, which was the first step in updating and readjusting the list.

Also, the representative of CoCom for the PIANC De Paepe-Willems Award was designated by the CoCom members. Moreover, Mr Hamid Khalili (First Delegate of PIANC Iran and Secretary of ICOPMAS) represented a brief review of ICOPMAS 2021. It was decided to talk about PIANC-COPEDEC in detail during the next meeting.

6.6 CoCom Sub-Committees

6.6.1 SC 1 – Training and Education

SC1 – Training and Education was created to analyse existing training courses worldwide in the field of ports and waterways, identify gaps in training provision and devise appropriate training programmes. In this regard, it was decided to gather all the training courses and documents related to available training activities for Ports and Waterways to make the best use of them, and then terminate PIANC WG 126.
6.6.2  SC2, 4 – Regional Activities

6.6.2.1 Target Countries

The list below manifests the recent update on the list of target countries. The list is dynamic and continues to be adjusted based on political and practical realities.

<table>
<thead>
<tr>
<th>Target Countries</th>
<th>AMERICA</th>
<th>AFRICA</th>
<th>ASIA</th>
<th>MIDDLE EAST</th>
<th>EUROPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mexico</td>
<td>USA/Spain/HQ</td>
<td>Morocco French NS</td>
<td>Fiji &amp; Papua New Guinea</td>
<td>UAE</td>
<td>Poland</td>
</tr>
<tr>
<td>2. Canada</td>
<td>Rejoined in 2020</td>
<td>Egypt</td>
<td>Myanmar USA/Netherlands/Japan</td>
<td>Qatar</td>
<td>Portugal</td>
</tr>
<tr>
<td>3. Chile</td>
<td>USA/Spain/Argentina</td>
<td>Kenya Netherlands/UK</td>
<td>Cambodia Japan/Belgium</td>
<td>Kuwait</td>
<td>Signed in 2020</td>
</tr>
<tr>
<td>4. Uruguay</td>
<td>Kevin Knight</td>
<td>Mozambique Portugal/South Africa</td>
<td>Oman Iran Mohammadreza Allahyar – Mohammad Hossein Nemati</td>
<td>Turkey</td>
<td>Signed in 2020</td>
</tr>
<tr>
<td>5. Peru</td>
<td>Netherlands/Spain/Argentina</td>
<td>Herman Pals</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6.6.2.2 Regional Activities

PIANC Iran is now cooperating with the organisation of the 14th International Conference on Coasts, Ports & Marine Structures (ICOPMAS) 2022, which is scheduled to take place from 31 October to 2 November 2022. ICOPMAS, as the oldest event in the Middle East concerning coastal areas and offshore engineering, offers an excellent opportunity to expand the PIANC membership in the Middle East.

Moreover, PIANC USA is organising the PIANC America Conference, which is planned to be combined with the PIANC Biennial Technical Visit in 2023. These regional Conferences for the Americas will be an excellent opportunity for strengthening and expanding PIANC in America.

6.7  CoCom Initiatives

6.7.1 Mutual Co-Operation with PIANC Commissions

CoCom has decided to hold virtual meetings with other PIANC Commissions to enhance mutual beneficial cooperation. In 2021, the CoCom Chairmen held two meetings with the Chairmen of RecCom and InCom, in order to exchange experiences and insights between the different Commissions.
The first meeting was held on 9 September 2021, with Dr. Esteban Biondi, Chairman of RecCom.

During the meeting, the two sides emphasised the importance of the cooperation of CoCom with the Technical Commissions in various fields.

The main focus of the meeting was to discuss how the commissions can help each other to increase the PIANC membership and transfer the knowledge. In this regard, Dr. Biondi stated his views on redefining the different regions, the needed platform and tools for organising virtual events, and the regional activities.

The second meeting was held on 26 October 2021, with Prof. Philippe Rigo, Chairman of InCom.

During this meeting, the two parties discussed how to guarantee the sustainability of PIANC events like PIANC-COPEDEC in the long term, which could create a large PIANC section in different countries. In this regard, Prof. Rigo emphasised that InCom and CoCom should do it together and be more supportive to mobilise and disseminate information.

At this meeting, Prof. Rigo stated his views on enlarging the PIANC Working Groups in developing countries, organising virtual events and regional activities, and mutually beneficial collaboration. Also, he believed that in order to achieve more beneficial collaboration, the Chairmen of InCom and CoCom need to have in-person meetings.

6.7.2 Training Programme

To move forward in 2022, CoCom plans to prepare educational and promotional short videos, develop the PIANC website for a virtual training programme, and organise free or low-cost virtual training courses in cooperation with other Commissions in developing countries.

6.8 Social Media

https://www.linkedin.com/in/pianc-cocom-641a69211

https://www.instagram.com/pianccocom/

pianc.cocom@gmail.com

Abbas Sarmad
Co-Chair of CoCom

Mohammadreza Allahyar
Co-Chair of CoCom

Mohammad Hossein Nemati
Secretary of CoCom
7.1 Foreword

Going into 2021, we knew what was coming. Despite the uncertainty pervading times of the pandemic, one thing was for sure: 2021 was once more going to be a ‘virtual’ year for YP-Com. We worked together with our experienced colleagues in PIANC, both within and outside our Commission, aiming to develop a strategy that could allow us to keep the momentum, keep carrying the PIANC torch forward. The Young Professionals were challenged as never before to push the limits of their creativity to keep engaging old and new colleagues from a distance. Looking back, we are proud on the achievements this year, proving the resilience and digital connectivity demonstrated throughout the PIANC organisation, and specifically within YP-Com.

We would like to take this opportunity to thank all Commission members for their support and efforts throughout this year, as it has not been an easy one. A special thanks to our fellow board members Rodney, Lisa-Maria, Nina, Virginia, Hyun, Jack & Antonio – we could not have done it without you! Furthermore, a big praise for the task group members organising the Virtual Event: Bianca, Rocio, Heather & Jack, thank you for pulling off this amazing event.

The success of virtual events resulted from efforts sometimes originating from single countries, sometimes from joint efforts between multiple countries, and other worldwide initiatives that overcame time zone restrictions to gather colleagues at the opposite ends of the world. We established a task group specially dedicated to providing guidance, support, and the organisation of virtual events, which ended up with the first edition of the PIANC YP International Virtual Event in November of 2021. There was great attendance at the virtual meetings that were held in March and September and welcomed the inclusion of new countries in the Commission. All in all, we were successful in the task; we stayed in the know and kept in touch with each other.

The hearts and minds of everyone are with our traditional on-site PIANC events such as PIANC-COPEDEC (the Philippines), PIANC-SMART Rivers (China), the World Congress (South Africa), and our signature event, the Biennial Technical Visit (BTV) in the USA, all of them postponed to 2022-2024. But, in the meantime, we have achieved a priceless experience and new skills to reach every corner of the world in the quest of creating new and maintaining existing contacts. For the year 2022, we look forward to meeting you again – and hope we can start making plans for national, regional and international events soon! Please be sure to join our LinkedIn Group ‘PIANC Young Professionals’, which grew to over 3,000 members in 2021.

Eslie Vrolijk & Sebastian Iglesias
Chair & Co-Chair of YP-Com
7.2 Members & Board

The YP-Com Board is the governing body of the PIANC Young Professionals Commission, responsible for the Commission’s adherence as a Permanent Commission to the mission points, guiding principles, strategic objectives, and administrative matters of PIANC International. The Board serves its Delegates, Observers, Members, and countries through representation allocated into international levels (Chair, Co-Chair, Secretary) and regional representation (Regional Vice-Chairs and Alternates (formerly known as Supporters) for the Europe-Africa, Asia-Pacific and Americas regions. Following is the composition of the YP-Com Board in 2021:

- Eslie Vrolijk (the Netherlands) – Chair
- Sebastian Iglesias (Argentina) – Co-Chair
- Vacant – Secretary
- Carolina Piccoli (Brazil) – Vice-Chair, Americas
- Virginia Sy (Argentina) – Alternate Vice-Chair, Americas
- Rodney Hancock (Australia) – Vice-Chair, Asia-Pacific
- Jack Lee vun Zac (Malaysia) – Alternate Vice-Chair, Asia-Pacific
- Hyun Dong Kim (Korea) – Alternate Vice-Chair, Asia-Pacific
- Lisa-Maria Putz (Austria) – Vice-Chair, Europe-Africa
- Antonio Gomez (Spain) – Alternate Vice-Chair, Europe-Africa

YP-Com representation within PIANC National Sections and Qualifying Members are represented by Delegates and Observers, while YP Observers may represent all other countries. In addition to those mentioned for the YP-Com Board, the following sections list the name of the current YP-Com Delegates and Observers around the world.
In addition to all our Delegates and Observers, there is an increasing representation of YP’s in PIANC’s Technical and Other Commissions.

### Meetings

In 2021, YP-Com held three commission meetings:

- **03 March 2021** – Online – 35th YP-Com Meeting: The first meeting of the year was held 100% online. Notwithstanding the time zone differences, more than 40 YP’s (including new-comers from Malaysia, Indonesia, Costa Rica, Brazil, Greece, South Korea and Portugal) attended. At this meeting, Eslie introduced the new YP-Com Co-Chair Sebastián Iglesias. Furthermore, Claire Treeby, PIANC Australia’s YP-Chair and YP-Delegate, shared an overview presentation and lessons learnt from the APAC 2020 Conference, inspiring fellow YP’s to organise their own events during the pandemic period.
and providing experience and key things to learn from. Filip van de Wiele (Belgium) gave a short update about the International Membership Task Group. The group has various YP-representatives who are preparing a survey to circle around the YP’s community to gain input in the perception of the current membership system.

Finally, a sub-committee called the International Virtual Events Task Group (IVETG) was presented, with the primary goal of organising a global virtual event in 2021.

- **08 September 2021 – Online – 36th YP-Com Meeting:** The second online meeting of the year, attended by 36 Young Professionals from all over the world. The virtual meeting was led by Eslie Vrolijk, YP-Com Chair, and included updates on the Commission’s past and upcoming events and updates from the Technical Commissions. Gensheng Zhao (China) presented the PIANC SMART Rivers Conference, planned for October 2022, while Matt McCarty (USA) presented the theme, location and ideas for the PIANC YP-Com Biennial Technical Visit (BTV) planned in Florida, United States in spring 2023. Furthermore, Koen van Doorslaer gave a presentation on MarCom, informing Young Professionals of MarCom’s main activities and explaining how YP’s can get involved in MarCom (or other Technical Commissions and Working Groups).

### 7.4 Activities/Events

Throughout the year, YP-Com gained momentum in organising online events to overcome the limitations imposed by the pandemic and prepare ourselves to organise on-site events in the future. A novel event format that became popular in the community is the ‘joint-webinar’. Also, our signature online event for this year, the **PIANC YP International Virtual Event**, was a complete success. The section below provides an overview of the events of 2021 by region. It is noted that some events are presented in the National Section reports.

#### 7.4.1 PIANC YP International Virtual Event

The 1st PIANC YP-Com International Virtual Event 2021 took place on 16-17 November 2021. Organised and moderated by Sebastian Iglesias (Co-Chair YP-Com), Bianca Borca (Austria), Heather Houston (UK), Rocío Lopez Velasco (USA, Spain) and Jack Lee Vun Zac (Malaysia), the event was a great success. It attracted over 120 participants from all over the globe. During the breaks, a virtual networking session was also set up where the participants could find each other in different chat rooms or have a talk in the virtual coffee room.

On the first day of the event, PIANC President Francisco Esteban Lefler welcomed the participants in his introduction. Then, there were three technical presentations from YP-Com USA (Robert Creel), Argentina (Vincent Besson), and Brazil (Igor Luna Moura). On the next day, YP-Com Chair Eslie Vrolijk opened the event, followed by six technical presentations from YP-Com Australia (David Perbey), Singapore (Yan Qi Chim & John Rae Manaolis), the Netherlands (Ingrid Lambert), Malaysia (Zakri Zulkurnain), South Korea (Kim Hyun Dong), and Austria (Lisa-Maria Putz).

From the Young Professionals Commission, we appreciate the support from the entire PIANC community, specially PIANC HQ, to organise the event. We look forward to the next edition in 2022!
16 November

UTC -8 LA

08:00 | Welcoming words by the President of PIANC, Francisco E. Lefler

Robert Creel (YP USA) – Geosynthetics for Waterborne Transportation

Igor Luna Maura (YP Brazil) – Privatization processes in waterborne transport infrastructure

Vincent Besson (YP Argentina) – Planning for ports in Argentina: Success stories and challenges

11:00 | Closing words by the chair of YP Com, Eslie Vrolijk

17 November

UTC +0 UK

08:00 | Welcoming words by the chair of YP Com, Eslie Vrolijk

David Perbey (YP Australia/New Zealand) – Sustainability Challenges in Development of port Infrastructures in the Pacific region

Yan Qi Chim and John Rae Manaois (YP Singapore) – Managing Coastal Protection and Climate Change Adaptation

Ingrid Lambert (YP The Netherlands) – Climate and disaster resilience for ports through adaptation planning;

Zakri Zulkurnain (YP Malaysia) – Marine Transport and Marine Spatial Planning

Kim Hyun Dong (YP Korea) – Artificial Intelligence Application on Sediment Transport

Lisa Maria Putz (YP Austria) – Transport emissions in freight transport

13:00 | Closing words by the President of PIANC, Francisco E. Lefler
7.4.2 Joint Events

7.4.2.1 Spain and Argentina

In a series of three webinars organised by Young Professionals of Argentina and Spain, professionals
of the port community participated and shared experiences throughout the year.

1st Webinar – 4 March 2021: Port Dredging Experiences

There were two speakers; the first 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 on the characteristics of the dredging works in their ports
and the taken environmental actions to avoid significant environmental impact. The event had excellent
attendance, with 140 participants from Argentina, Spain, and other Latin American countries.

2nd Webinar – 29 June 2021: Port and Coastal Planning

The main topic was the experiences interchanges about planning from Argentina and Spain through
presentations prepared by two long career professionals closely related to coastal and port
development challenges. During the event, there were two speakers: the first one was Eng. Nestor
Alvarez exposed the port, developing process around Puerto Rawson and Puerto Madryn, Argentina,
from their first steps as fishing ports to the present commercial activities. Secondly, Eng. Jordi Galofré
from the Coastal Service of Terragona spoke about different aspects of coastal management in Spain
and the effects caused by climate change.

3rd Webinar – 3 November 2021: Port Infrastructure

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’.

7.4.2.2 Argentina and Japan

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. 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 adaptation
considering climate change. Last but not least, it is essential to highlight that the time zone difference
of twelve hours was not an obstacle to having excellent attendance due to the high commitment of all
YP’s. The webinar was attended by more than forty participants, mainly from both organising countries,
and enjoyable moments were experienced.
7.4.2.3 Chile and Argentina

The Argentinian National Section organised an online seminar in conjunction with the University of Santiago, Chile on 4 June. This time a speaker from Chile told us about the current operations of the Port of San Antonio, while from Argentina José Luis Inglese presented a discharge work through a 4.3-m diameter tunnel that will enter 12 km into the Rio de la Plata river, crossing under the navigation channel.

7.4.3 Americas

7.4.3.1 Argentina

Technical Visit and Year-End Event (3-4 December 2021)

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 Ríos de la Plata', in the Port of Buenos Aires, and it counted with great attendance, from which most of the assistants were YP-members. 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 and the past future local and international activities. The event, which gathered almost 20 attendees, 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 wish the local section a flourishing 2022.

Following the year-end event and seizing the opportunity given by the presence of YPs 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 strengthening the YP-group in Argentina.
7.4.3.2 United States

Webinar Soft Shoreline Stabilisation (11 March 2021)

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 a numerical and physical modelling approach to redevelop and protect a stretch of shoreline in Euclid, Ohio. The participants were a mix of PIANC and non-PIANC members and were mostly YP’s.

7.4.3.3 Brazil

One of the most exciting news this year was the creation of a new Young Professional group in Brazil, which is under the umbrella of the National Waterway Transport Agency (ANTAQ). The new group was officially launched on an online webinar on 26 October 2021 that counted with the presence of ANTAQ and YP-Com authorities. We are looking forward to working together with you, colleagues!

7.4.4 Europe-Africa

7.4.4.1 Belgium

Webinar 'Oosterweel' (March 2021)

After nearly one year of PIANC-hunger, the Belgian YP’s organised their first online event in March 2021. The subject ‘Oosterweel’ is well-spoken in Belgium and lives along with a broad audience. Not only YP’s, but also others interested in the matter followed this online presentation. With more than 80 participants, this first try-out was such a success that the next one has already been planned. At the end of May, a second online event will link WG’s (or Commissions) to relevant subjects. Among others, the ‘Ever Given’ case will be discussed, being linked to WG 121. More than 45 people subscribed to this event.

7.4.4.2 Spain

Webinars on Sand Management and Dredging (April/May 2021)

The webinar ‘Sand Management in the Spanish Littoral’ took place on 29 April and 11 May 2021. It was the first webinar on sand management on the Spanish coast, organised by the Coastal Engineering and
Management Committee of ATPyC, the Spanish Section of PIANC. These conferences were held virtually on the two days mentioned above, with the participation of a total of 10 speakers, explaining examples and success stories in sand management on the Spanish coast.

The webinar ‘Positive Aspects of Dredging’ was held on 15 April 2021 and organised by the Spanish Section of PIANC (ATPyC). It presented Working Group 5 of the ATPyC Port Engineering Committee, focusing on the analysis of dredging in port and coastal areas. Leading experts from the maritime port sector participated in this webinar, explaining examples and successful experiences of dredging in port and coastal areas. In total, there were four presentations dealing with two cases located in Spanish ports and two cases in Portuguese ports.

ATPyC Young Professionals Conference (18 November 2021)
In Spain, PIANC is represented by the Asociación Técnica De Puertos Y Costas (ATPyC). The Young Professional Section of ATPyC usually holds this meeting annually. The event was held as a virtual seminar on 18 November this year. The webinar consisted of several technical sessions of about 20 minutes, covering various topics related to the maritime industry. The session was chaired by our Spanish colleague and YP-member, Alvaro Rodero.

7.4.4.3 Portugal

Webinar ‘Engenharia Costeira e Portuária em Portugal e no Mundo: O Testemunho dos Jovens Profissionais Portugueses’ (21 May 2021)

On 21 May 2021, the Portuguese Section of PIANC and YP-Com organised the Webinar ‘Engenharia Costeira e Portuária em Portugal e no Mundo: O Testemunho dos Jovens Profissionais Portugueses’ (Coastal and Port Engineering in Portugal and the World: The Testimony of Portuguese Young Professionals). This event marked the return of PIANC Portugal and served to restore the connection between PIANC and those interested in PIANC subjects. The webinar was attended by more than 250 participants and counted with the presence of 20 speakers working on a wide range of professional backgrounds in different countries: design, consultancy, research, etc. (see the event video here). Aiming to be a moment of exchange of professional experiences between young Portuguese engineers, the speakers presented the work they develop worldwide, focusing on the practice of maritime-port engineering in the countries where they are working and on the differences with the activity in Portugal.

7.4.5 Asia-Pacific

7.4.5.1 China

Upcoming Event in 2022: 10th PIANC Smart Rivers Conference

YP-Com China has shown significant progress throughout the year towards the organisation in one of the most important PIANC global events, the 10th PIANC-SMART Rivers Conference to be held in Nanjing, China, from 18 to 21 October 2022. The event is planned as Hybrid Conference with online and onsite meetings. For more information about registrations and abstract submission, please have a look at the event’s webpage:
http://www.smartrivers2022.com/
We already can’t wait for this event!
8 REPORT OF THE PROMOTION COMMISSION (PROCOM) 2021

8.1 Escaping the Hamster Wheel

2021 has been the first full year of the pandemic, and it did not seem to end ever. Every time when a voice in your head whispered “This is it, these have been the highest numbers and the strictest measures, it can only get better” – bad news came up and it felt like a hamster wheel.

The Promotion Commission has faced the same.

It was a year, where ProCom on the one hand experienced great progress with projects such as the house style, but roadblocks with others.

A year, where the pandemic forced us to make real progress in virtual PIANC events which is a great basis for a future with both, virtual and live events.

On a personal note, it was the year I became a mom, and was able to experience all the highs and lows of motherhood.

It was also a year in which for the first time, a Commission Chair keeps a Commission alive and leads it from maternity leave and I am deeply grateful for the Team’s support.

Escaping the hamster wheel might have been the goal for many of us, to cope with such a long-lasting pandemic and its persistent consequences. But appreciating the things we have, and the awareness that ‘good old’ structures and friends is what gives us security, kept the PIANC family together.

8.2 Our Crew

Throughout 2021, the ProCom Team gained new members: Ms Chiara Minoretti from PIANC Platinum Partner Bekaert joined us.

The US Section proposed a new member: Ms Hamna Zaheer took over from Ms Kayla Waltemire.

This meant for us that the majority of the ProCom Team members were already experienced and we were lucky to tackle the challenging tasks with an established team.

In total, we worked with a team of twenty members in 2021, including four members from PIANC Platinum Partners, which allows a close co-operation, and three members from PIANC HQ, which is an absolute necessity for the work of the Commission.

These members are:

- Anna-Lena Pahl – Germany – Chairperson and Representative of ShibataFenderTeam
- Geert Van Cappellen – Belgium – Member and Secretary-General of PIANC
- Leen Weltens – Belgium – Member and Secretary at PIANC HQ
- An Van Schel – Belgium – Member and Secretary at PIANC HQ
- Sabine Van de Velde – Belgium – Member and Secretary at PIANC HQ
- Neil Lawson – Australia – Member
- Hélène Masliah-Gilkarov – Austria – Member
- Hubert Fiers – Belgium – Member and Representative of DEME
- Mariela Ganchovska – Bulgaria
- Juan Carlos Gómez López – Colombia – Member
- Xiao Lei Liu – China – Member
- Olli Holm – Finland – Member
- Laurent Luchez – France – Member
- Hartmut Brühl – Germany – Member
- Chiara Minoretti – Italy – Member and Representative of Bekaert
- Sahar Mokhtari – Iran – Member/YP
8.3 Meetings

2021 was a pure virtual meeting year for ProCom. It was difficult not seeing each other in person and have time for some in-depth meetings but looking back at the year, the ProCom members did a fantastic job in participating in large numbers, exchanging ideas and thoughts and working in our small subgroups besides the main ProCom meetings.

All in all, we had five virtual meetings with interesting results, which are briefly presented below.

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Focus</th>
<th>Outcome</th>
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| 2021-1: January – Online | • How to establish a fruitful exchange with Working Groups  
• After important remarks: Changes to the logo guidelines | • For the first time, Working Group Chairs were contacted by ProCom to establish an exchange and to offer ProCom’s support  
• Communication Template for ‘Working with Nature’ has been established and launched |
| 2021-2: April – Online | • Virtual Events                                                      | • Cooperation with the ‘Young Professionals Virtual Events Taskgroup’ to align efforts  
• Starting to update Membership Benefits List |
| 2021-3: September – Online | • How to deal with existing guidelines and templates  
• Aligning different styles of official PIANC documents  
• Webinar handling | • Initiative to store all guidelines and templates in one place as some kind of library  
• New email address for communication with WGs has been created: wgsupport@pianc.org |
| 2021-4: October – Online | • Jointly discuss first ideas on new house style  
• Discuss strategy and further process for guideline library | • Founding of new subgroup ‘House Style’ to create a new Corporate Design |
| 2021-5: December – Online | • Updates on development of new house style  
• Ideas on founding of an internal photo database  
• Update on first webinars | • Huge step forward with house style  
• Task to draft webinar guidelines |
8.4 Achievements

- Successful continuation of the subgroup structure within ProCom to work more efficiently and to closer involve the team members to cope with all the many tasks of ProCom. The subgroup ‘Task Force Membership’ finished its task and the new subgroup ‘house style’ has been created.

- Within only a few weeks, the ProCom subgroup ‘House Style’ achieved the development of several ideas on a new PIANC House Style, incorporating the long tradition of the Association, and simultaneously gearing up for the future.

- The new communication process between the Working Groups and Technical Commissions on the one hand and ProCom and PIANC HQ on the other hand has finally been put into action in 2021. ProCom reached out to the Working Groups to ask for updates on their work, but also to distribute ProCom guidelines. With the new email address wgsupport@pianc.org all Working Groups and Technical Commissions have a direct connection to both, ProCom and PIANC HQ for all kinds of promotional topics. ProCom and PIANC HQ work closely together to take care of requests and it has been a very successful start. Needless to say, frequent updates from Working Groups on their meetings and progresses is an important pillar of PIANC’s communication.
• The **comparative study of webinar platforms** has been used by ExCom to take a decision on how to proceed with an **online event structure** for the PIANC community. This structure has been set up by PIANC HQ and the first virtual webinars took place at the end of 2021.

• The **comprehensive guide** to support National Sections and its secretaries has been an ongoing topic throughout the year and the ProCom team did its best to progress with the guide. It will finally be launched in 2022.

• A very important topic has been put on our agenda, which is the **gathering and organisation of all the guidelines and templates that exist, easily accessible for all PIANC members** (like a kind of library). Now they are all saved on the SharePoint, but in different locations which makes it difficult to keep a good overview and to keep all of them updated. Therefore, ProCom started to develop a new structure and a way to enhance the use of templates and guidelines within the PIANC community.

8.5 **Online Figures**

The activities on social media at a glance:

- 3,550 followers on [LinkedIn](https://www.linkedin.com)
- 742 followers on [Twitter](https://twitter.com)

Please support PIANC by **sharing interesting articles within your network**. Spread the word – in times of virtual events and growing online presence and activities of our PIANC members, this is easier as never before. Help your contacts to learn more about PIANC’s work, events, webinars, and networking opportunities – to hopefully make them new PIANC followers.

8.6 **What to Expect from 2022?**

2021 has been another year in which most of us had to struggle with home-schooling and being focused on work, sitting in front of the computer for another virtual meeting, although meeting in person would have been so much better, deciding between still being cautious and returning to a somewhat new normal – and finally, the year is over!

2022 brings back what we all wished for: a simple handshake, an exhibition hall filled with people, a hug from a friend of your PIANC family who you haven’t seen for far too long.

The ProCom Team worked hard to once again keep the international PIANC family connected through rough seas and to continuously bring new topics safely ashore.

We are looking forward to 2022 with all its new challenges, new normal, new encounters, and new adventures! Let’s get started!

**Anna-Lena Pahl**

*Chairperson of ProCom*