COMMISSIONS
# TABLE OF CONTENTS

1. Report of the Financial Commission (FinCom) 2020 ................................................................. 3
5. Report on the Permanent Task Group on Climate Change (PTG CC) 2020 ............................ 25
1 REPORT OF THE FINANCIAL COMMISSION (FINCOM) 2020

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
- Manuel Arana Burgos, PIANC Spain
- Jan Reche, PIANC Germany
- Jacques Paul, PIANC France
- Xavier Laloum, PIANC Columbia (Correspondance Member)
- Geert Van Cappellen PIANC HQ

The Commission met twice over the last year 2020, with its first meeting on 28 January 2020 being held in Brussels (PIANC HQ) in preparation for the February 2020 ExCom and Council meetings. The second FinCom meeting should have taken place in Bristol on 17 May 2020, prior to the Bristol AGA 2020. For the reason we all know, this event could not take place on that day and location. Therefore, a second meeting was held by means of a Teams meeting on 17 September 2020.

As always, the FinCom agenda of the first meeting consisted of a very varied and extensive programme, complemented by a presentation by our private bank BNP Paribas Fortis, concerning the actual situation of the SRI transferred PIANC HQ portfolio, and a financial outlook for 2020.

The financial results for 2019 were very satisfactory. FinCom was very happy with this, and still hopes in the long run to achieve a higher financial return and lower management costs. But we must be aware that the improved results as in 2019 will not take place every year.
Most of the attention of the 69th FinCom meeting was related to the organisation of events, particularly PIANC-COPEDEC in Manila, Philippines, at that time foreseen for November 2020, as well as the organisation of the 35th PIANC World Congress in Cape Town, South Africa, foreseen for March 2022.

Because the route to these events is not without obstacles, FinCom considered how PIANC HQ and Commissions such as CoCom and FinCom could contribute to assist their organisation.

One of these resources could consist of drafting a Handbook of Templates in order to assist the Local Organisation Committee (LOC), which explains how PIANC wishes the events to be organised and what is needed. This Handbook, when it is ready, will include a collection of data in table form of past similar event(s), with the actual number of participants, speakers, papers, back-up papers, registration, etc. prior to the event, number of effective days, and the real yield.

A regular updating of this Handbook should allow all of us to learn lessons from the experiences of previous events, conferences, and the Congresses. The Handbook should replace the different templates that exist now and will therefore be more coherent for the organisation of future events.

At the time of the meeting, FinCom assumed that at the latest, a contract between the LOC of the World Congress in Cape Town 2022 and PIANC HQ needed to be signed in Bristol 2020.

The budgetary result for 2019 and the Business Plan 2020-2024 were approved during this Brussels meeting with only a limited number of corrections.

Further debates were also held on the membership evolution, the IT strategy and membership software. Our FinCom analysis of the past years shows a fairly stable revenue from membership, but indicates unfortunately, that the overall number of members does not increase. Once again, it turns out that most National Sections and Secretariats fail in attracting new members. This standstill is not a good sign and indicates that something needs to be done, both by HQ, and especially by the National Sections, to improve this situation. Hence, we need, as does any business, growth to replace both existing members who leave, and to grow the organisation as a whole.

FinCom prepared a Credit Control instrument on how to improve/facilitate the paying of our invoices. This instrument gives us an idea of the difference between 40 (Trade Debtors: invoices by PIANC) and 44 (Trade Debts: invoices to be paid by PIANC) on a monthly basis. The result is that PIANC easily paid the invoices, but that there will each year be a long period where we find approximately €200,000 of unpaid invoices compared to the invoices issued. FinCom found that the outstanding amount is largely dependent on the method of invoicing and the fact that the Rules & Regulations spread the two payments required around April and October of each year.

FinCom is preparing guidance on travel expenses too, and it was intended to finalise and approve these guidelines in view of the Bristol AGA.

Finally, some FinCom members announced their intentions regarding their retirement from the Commission over the next two years, which revealed the need for a suitable succession plan of the FinCom chairmanship and membership.

The second 2020 FinCom meeting was foreseen to take place in Bristol on 17 May 2020, prior to the Bristol AGA 2020. Unfortunately, between 28 January 2020 and the AGA in Bristol, a lot had been prepared when the Bristol meeting was cancelled due to the COVID-19 pandemic. The PIANC HQ portfolio lost no less than 8.26 % in value in a month. In this regard, the Secretary-General has been given a revised draft estimating the budget and the outlook for the coming years. The outlook was highly uncertain, and PIANC’s financial policy needed corrections.

During the second meeting on 17 September 2020, the traditional FinCom topics were dealt with, although COVID-19 not only influenced the style and format of the meeting, but also some subjects.
On the photo the various participants in the FinCom meeting (L-R): Neil Lawson (Australia), Geert Van Cappellen (Secretary-General), Remi van der Wijk (The Netherlands), Jan Reche (Germany), Ian White (Chairman, UK), Jacques Paul (France), Manuel Arana Burgos (Spain) and Joe Mantey (US). The photographer and FinCom Secretary Herbert Smitz (Belgium) can be found in the right under corner in a minuscule image!

Organising events, in particular PIANC-COPEDEC in Manila (Philippines), PIANC-SMART Rivers 2021 in Nanjing (China), as well as the 35th World Congress in Cape Town (South Africa), depends on the possibility of travelling there and the pandemic may prevent this. It will greatly affect the possibility of organising a successful event, which will be financially viable. We are experiencing uncertain times!

FinCom and PIANC are thus facing major uncertainties, not only with regard to 2020, but also for the coming years. This can affect both spending and revenue to organise events like PIANC-COPEDEC, PIANC-SMART Rivers and the World Congress. The management of a healthy financial balance sheet must be the specific focus of FinCom in such circumstances.

Moreover, during the meeting on 17 September 2020, it was decided by PIANC to postpone the events for one or more years: PIANC-COPEDEC to 2021 or possibly 2022, specifically because it is expected that the vaccination programme in developing countries will take place later, PIANC-SMART Rivers is planned to take place in 2022 and the 35th World Congress has been postponed until March 2024.

As far as the financial situation is concerned, it was established at that time that on the revenue side, the subventions and contributions more or less retain the result of the previous years, but of course, this may change next year when the influence of COVID-19 will be noticeable. The expenditure was positively impacted by COVID-19, as expenditure on the Commissions was more limited, and travelling was no longer possible, so the costs associated with this item were significantly lower.

Furthermore, FinCom agreed that the investments in the development of an IT-program for the membership and digitisation of the PIANC archive can continue. The PIANC archive has already been collected and transferred to specialised storage (storage norms are at museum grade). We are looking at 9 metres of archive, equalling some 180,000 pages!

It may be helpful that PIANC should consider how it will position itself in the future regarding climate change, as the other NaCC partners in the group do not contribute financially.

With regard to ProCom’s request to make publications available free of charge, FinCom took the view that the financial aspect is not important here, but the fact that free publications undermine an important objective of PIANC is, as it is a crucial path to recruit new members and retain existing ones.
After the meeting, the Chairman completed the quick casebook study looking at our FinCom members’ travel costs, the time spent in gathering for a meeting in Brussels, and what we can save by organising online meetings. It would appear that on average, all FinCom members each incur € 760 in getting to Brussels and that we spend 31 hours travelling, even with a majority of European FinCom members! Therefore, in the future, obviously more of our PIANC meetings should be held online, as this will have several benefits. Nevertheless, all PIANC Working Groups and Commissions should have some physical meetings too, as this is vitally important to allow them to socialise and network properly. FinCom is convinced that this investigation can be an example for the others, and that some companies and administrations will be more likely to allow employers to participate in Working Groups if an online meeting reduces the total cost of participation.

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The 2020 financial outlook can be divided into an assessment of the situation of the SRI transferred PIANC HQ portfolio, and a summary of the financial results 2020.

At the time of the first meeting in January 2020, the growth of the portfolio in barely one month was already 1 % in positive. Unfortunately, there was already uncertainty at that time because the COVID-19 pandemic had broken out in China and it was feared that it could have ‘some’ impact on Europe too. What no one expected occurred in March and April 2020, when the pandemic transhipped to Europe and the financial world collapsed. With a loss of just over 8.26 %, we found ourselves in an even more unfavourable group.

Since the end of March 2020, you can find the evolution of the loss and recently the profit factor on the chart below. Undoubtedly, the result of the US elections and the news to have working vaccines in the coming months, had a positive effect as shown in the added value of 1.94 % at the end of November 2020 and even 2.91 % at the end of December 2020.
1.2 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>€ 29,182</td>
<td>€ 22,500</td>
<td>€ 6,682</td>
</tr>
<tr>
<td>Contributions (Subs.)</td>
<td>€ 339,420</td>
<td>€ 345,000</td>
<td>€ -5,580</td>
</tr>
<tr>
<td>Subventions</td>
<td>€ 170,050</td>
<td>€ 165,000</td>
<td>€ 5,050</td>
</tr>
<tr>
<td>Platinum Partners</td>
<td>€ 47,500</td>
<td>€ 47,500</td>
<td>€ 0,000</td>
</tr>
<tr>
<td>Sales</td>
<td>€ 18,877</td>
<td>€ 20,000</td>
<td>€ -1,123</td>
</tr>
<tr>
<td>Financial income</td>
<td>€ 38,399</td>
<td>€ 20,000</td>
<td>€ 18,399</td>
</tr>
<tr>
<td>Other income</td>
<td>€ 5,802</td>
<td>€ 10,000</td>
<td>€ -4,198</td>
</tr>
<tr>
<td><strong>Total income</strong></td>
<td><strong>€ 649,230</strong></td>
<td><strong>€ 630,000</strong></td>
<td><strong>€ 19,230</strong></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>€ 66,012</td>
<td>€ 204,000</td>
<td>€ -137,988</td>
</tr>
<tr>
<td>Commissions</td>
<td>€ 21,362</td>
<td>€ 28,000</td>
<td>€ -6,638</td>
</tr>
<tr>
<td>De Paepe-Willems Award</td>
<td>€ 7,015</td>
<td>€ 10,000</td>
<td>€ -2,985</td>
</tr>
<tr>
<td>Headquarters</td>
<td>€ 426,221</td>
<td>€ 509,000</td>
<td>€ -82,779</td>
</tr>
<tr>
<td>Financial Charges, Taxes, etc.</td>
<td>€ 31,265</td>
<td>€ 50,500</td>
<td>€ 19,235</td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td><strong>€ 551,875</strong></td>
<td><strong>€ 801,500</strong></td>
<td><strong>€ -249,625</strong></td>
</tr>
<tr>
<td><strong>Surplus (€)</strong></td>
<td><strong>€ 97,355</strong></td>
<td><strong>-€ 171,500</strong></td>
<td><strong>€ 268,855</strong></td>
</tr>
</tbody>
</table>

Table 1: Summary of the financial results 2020

The summary shows that the global financial affairs of PIANC have continued to do particularly well.


As a consequence of the good financial result of PIANC-SMART Rivers in Lyon (2019), we note a favourable outcome for the Congress and Seminar item. On the one hand, the sale of our reports is limited negatively in relation to the expectations when preparing the budget, but on the other hand, similar to 2019, the financial bonus from the PIANC portfolio is nearly double than predicted in the budget.

Under ‘other income’, we find the sponsoring and advertising income from the PIANC Yearbook. Relative to the other income items, this type of publicity income needs to be improved.

Overall, the deviation of the overall income versus the estimated budget is 3.1 % in positive, which is extremely successful in view of the special circumstances in 2020.

While the estimated income budget is roughly in line with reality, this is not at all the case regarding the expenses. Obviously, 2020 was not an ordinary year and it did not meet any of the classic expectations. Immediately after the PIANC HQ winter meeting in Brussels, a worldwide lockdown was declared when neither physical meeting nor travel was possible, and this at least not only until the end of 2020, but probably also a large part of 2021. Thus, no seminars, meetings, or physical meetings took place in preparation for PIANC-COPEDEC, previously expected at the end of 2020, for PIANC-SMART Rivers in 2021 and the 35th World Congress, which was planned for 2022.

This relatively calm situation was used to focus PIANC HQ on both a new membership software, and on the digitisation of the PIANC archive at HQ. This is vital, as in the future, the physical preservation of the PIANC archive will be subject to space restrictions as a result of the proposed office relocation to the WTC. Both activities are progressing but have not yet given rise to substantial invoicing during 2020.
The lack of physical meetings, Commission meetings, participation in LOC meetings during 2020, and the HQ payments foreseen therefore, resulted in the estimated expenditure being greatly exaggerated. Commission expenditure is likely to be only three quarters as estimated. Congresses and seminars only 32%. Some payments will of course be due in 2021. Physical Commission and other meetings will most likely be organised more and more by Microsoft Teams in the future, which could be cost-effective in 2021 and later on.

As for 2018 and 2019, and the year 2020, there are no costs for the publication and mailing of the PIANC Yearbook, as it was only published in a digital version.

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

The main part of the expenditure concerns the operational cost of PIANC HQ in Brussels. Where we can distinguish the ‘general costs’ and ‘salaries’.

Of course, COVID-19 had no impact on wages, and this component could be estimated fairly accurately. The foreseen € 295,000 turned out to be € 287,952 at the end of December 2020. The item HQ ‘General Expenses’ section also includes travel expenses, meeting costs in Brussels, etc., which were limited to the activities during the winter meetings in 2020 and which greatly reduced spending money by € 82,779 over 2020.

The last item contains the taxes and financial expenses. This section, too, was a thrifty year in 2020. Partly due to the fact that less material was amortised, but we had to pay more financial taxes.

The value of the actual global PIANC portfolio was € 1,215,277 as of 31 December 2020, compared to € 1,181,065 as of 31 December 2019. This result is an improvement of about roughly + 2.91 %, so really successful in COVID-19 pandemic times. If we compare that with the negative results of the BEL20, CAC 40 (-8 %), FTSE 100 (-13 %) during the same period 2020, we can even look forward to a good 2020 result.

The number of international events that PIANC organises or hosted remains large, such as the World Congress, PIANC-COPEDEC, PIANC-SMART Rivers, COP 21, Navigating a Changing Climate, etc. Even with the organisational experience gained over the years, this ‘business’ remains an ever-increasing workload on the HQ team and is reducing its capacity to undertake other duties and functions. Therefore, FinCom and its members, as well as especially the Secretary-General, try to support the Local Organising Committees were possible. To prevent these events from failing financially. FinCom, once again, requests that all LOCs endeavour to undertake as much as the preparatory work as possible to reduce the headquarters’ input and provide a financially sustainable business plan.

To summarise the financial items, a large surplus of € 97,355 is generated to be added to the reserves of PIANC in the coming months. Instead of an expected loss (- € 171,500), as included in the 2020 budget, is this the result of the pandemic? This result should not be seen too optimistically, because the conferences and seminars, and therefore the revenues that are expected from them, are postponed for one or two years.

<table>
<thead>
<tr>
<th>Date</th>
<th>31 Dec 2020</th>
<th>31 Dec 2019</th>
<th>Evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Member</td>
<td>1,632 (+36)</td>
<td>1,662</td>
<td>-30 (+6)</td>
</tr>
<tr>
<td>Corporate Member + PP</td>
<td>502</td>
<td>481</td>
<td>+21</td>
</tr>
<tr>
<td>Student. Life. Honorary</td>
<td>132</td>
<td>132</td>
<td>+0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,266 (2302)</strong></td>
<td><strong>2,275</strong></td>
<td><strong>-9 (27)</strong></td>
</tr>
</tbody>
</table>

*Table 2: Development of PIANC Membership 2019-2020*
The membership level has decreased in 2020 by 30 Individual Members, or minus 1.82 % in 2020. 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. Based on this assumption, there even is a growth of Individual Members. The Corporate Members increased by 21 organisations, not only +4.4 % in percentage terms, but for the very first time, PIANC manages to break the magical barrier of 500 Corporates (small/large/Platinum) since 2011, of which we are, of course, very happy. Moreover, we also welcomed PIANC Portugal and PIANC Canada back in the PIANC Community.

We also note an identical number of Student Members, Life and Honorary Members, but they have, of course, a minor impact on the PIANC financial income.

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In conclusion, we can only say again that in general, FinCom wants to take measures to minimise the organisational cost of events. During 2020, we were helped by the COVID-19 pandemic, because the expenditure that was budgeted for was not spent, whereas on the income side this revenue was foreseen for after 2020.

However, FinCom must remain concerned about membership evolution, and all Working Group members must join PIANC as a member. FinCom believes that subscriptions and subventions are decisive for the income of PIANC. FinCom has to take measures in order to prevent PIANC HQ from having to act as a lender for National Sections either financially or in terms of workload.

We must not forget that our core business is the Working Groups reports, which should be a major reason to attract new members. Once they have joined the Association, it is up to the National Sections to keep their Individual and Corporate Members on board, 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.

Once again, 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. This is especially important now due the impact, both in terms of health and finance, of the pandemic that could have a significant negative impact on membership which must be avoided if at all possible, by the actions of both HQ and the National Sections.

Yours sincerely,

Ian White
Chairman of PIANC FinCom

Herbert Smitz
Secretary of PIANC FinCom
REPORT OF THE MARITIME COMMISSION (MARCOM) 2020

2.1 General

2.1.1 Programme

It is needless to say that 2020 has been a challenging year for MarCom. An effort has been done to open up the Commission to new members from non-European countries and to attract YP-members.

The COVID consequences led to some disarrangements, both for the MarCom and the Working Group meetings and the way to go on. However, all members successfully continued their collaboration and common efforts and we are very thankful for that.

Despite the fact that only one new WG-report was published in 2020 – WG 145 – ‘Berthing Velocity Analysis of Seagoing Vessels over 30,000 DWT’ – two new Working Groups have completed their reports and are on the way to be published during the course of 2021. In line with the guidelines and recommendations for improving specific maritime projects, WG 200 will publish a really useful report for designing SPM or MPM facilities. A different topic, focusing on the improvement of technology in terminals, was reported in a comprehensive and nice document in a record time and was published in March 2021: WG 208 – ‘Planning for Automation of Container Terminals’.

2.1.2 Meetings

In 2020, MarCom held three Commission meetings:

- In Brussels, on 28-29 January 2020, where MarCom was able to attend the presentation of WG 200 Chairman, Mr I. Sanchidrian, on ‘Single-Point and Multi-Point Mooring Facilities’. A total of 4 new Terms of Reference (ToR) were reviewed and another 2 ToR were approved for setting up new WG’s. An excellent site visit to the Locks of Terneuzen project was organised by the Belgian MarCom representative Koen van Doorslaer.
- The MarCom autumn meeting was scheduled as three different online meetings, due to the restrictions caused by the COVID-19 pandemic:
  - On 17-18 September 2020, with an intense and fruitful meeting trying to accommodate all the time zones represented by MarCom members. MarCom was delighted to welcome 8 new members from Portugal, India, Bulgaria and Ecuador. A total of 3 new ToR were reviewed and some amendments were proposed in order to close the process in the following MarCom meeting. The MarCom members also enjoyed a draft presentation on WG 208 – ‘Planning for Automation of Container Terminals’ by Mr J. Ashebir and Mr J.M. Fernandez. The Working Group was congratulated and the MarCom members were all looking forward to the publication of this report.
  - On 18 November 2020, in order to close all the reviews of the Working Groups’ development. A collaboration agreement with OCIMF was proposed and the chairmen for three different WG’s were designated to start working on the new topics.

2.1.3 MarCom Membership

In 2020, MarCom was happy to welcome a good number of new members:

- Mrs Graça Neves, as Member for Portugal
- Mr Ricardo Carvalho, as Alternate Member for Portugal
- Mr H.N. Aswath, as Member for India
- Mr Milen Todorov, as Member for Bulgaria
- Mr Nikola Kirov, as Alternate Member for Bulgaria
- Mr Santiago Coral, as Member for Ecuador
- Mr Jorge Torres, as Alternate Member for Ecuador
- Mr Marcelo Acosta, as YP-Member for Ecuador
- Mr Robert Howe, as Member for Germany
- Mr Samir Gharbi, as Member for Canada
- Mrs Sara Iglesias, as YP-Member for Spain
- Mr Filip Mortelmans, as YP-Member for Belgium
MarCom considers it as a good value to incorporate all these new members, as every country representation is key for the work of the Commission.

In December 2020, there were 46 MarCom members, 8 of them were Young Professionals and 1 of them YP-Com Observer. 24 National Sections are currently represented in MarCom.

2.2 Publications

In 2020, the following MarCom Working Group report was published by PIANC.

**PIANC MarCom WG 145 –**
*Berthing Velocity Analysis of Seagoing Vessels over 30,000 DWT published in April 2020*

The objectives of WG 145 were to review vessel berthing velocity data from various ports around the world. This design parameter has the greatest influence on the berthing energy and subsequent fender systems. Consequently, a great deal of data on berthing velocities was collected and a proposal of design values was made by statistically examination of the available data.

2.3 Progress of MarCom Working Groups

This section summarises the status of ongoing MarCom Working Groups.

**WG 153B –** ‘Recommendations for the Design and Assessment of Marine Oil, Gas and Petrochemical Terminals’
Draft report expected by 2021.

**WG 164 –** ‘Upgrade of Port Terminals by Increasing Dredged Depth’
A new chairman has been appointed. The working group is regrouping.

**WG 167 –** ‘Design of Terminals for Ro-Ro and Ro-Pax Vessels’
Working on draft report to be able to present before September 2021.

**WG 171 –** ‘Ship Handling Simulation Dedicated to Channel and Harbour Design’
Draft report is expected to be ready in 2021.

**WG 186 –** ‘Mooring of Large Ships at Quay Walls’
Draft report is expected to be ready in 2021.

**WG 187 –** ‘Protection of Undersea Pipelines and Cables in Navigable Areas’
New chairman has been designated to continue the work.

**WG 194 –** ‘A Framework for Early Contractor Involvement in Infrastructure Projects’
Expect draft report to be presented to MarCom by 2021.

**WG 199 –** ‘Health Monitoring for Port and Waterway Structures’
Joint InCom-MarCom WG in progress.

**WG 200 –** ‘Recommendations for the Design and Assessment of SPM or MPM Facilities’
Report to be published in the first quarter of 2021.
WG 205 – ‘Design and Construction of Breakwaters in Soft Seabeds’
Working Group in progress.

WG 211 – ‘Guidelines for the Design of Fender Systems’
Expected draft WG-report in 2021.

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

WG 213 – ‘Design Guidelines for Marine Multipurpose Terminals’
Table of contents closed and WG progressing.

WG 215 – ‘Accidental Impacts from Ships on Fixed Structures’
Table of contents closed and WG progressing.

WG 224 – ‘Planning of Fishing Ports’
New chairman on board and the WG has started to work.

WG 225 – ‘Seismic Design Guidelines for Port Structures’
Very active WG progressing on the task.

WG 231 – ‘Mooring Bollards & Hooks: Selection, Maintenance and Testing’
Chairman is to be appointed, Working Group will start soon.

WG 232 – ‘Metocean-Related Risks During the Construction of Marine Works’
Chairman to be confirmed.

WG 233 – ‘Inspection, Maintenance and Repair of Waterfront Facilities’
Chairman appointed. Kick-off meeting organised by the beginning of 2021.

2.4 Approved Terms of Reference

The following Terms of Reference were approved in 2020:

- WG 231 – ‘Mooring Bollards & Hooks: Selection, Maintenance and Testing’
- WG 232 – ‘Metocean-Related Risks During the Construction of Marine Works’
- WG 233 – ‘Inspection, Maintenance and Repair of Waterfront Facilities’

2.5 Terms of Reference in Discussion Expected to be Submitted to ExCom in 2021

The list of Terms of Reference in discussion illustrates the working guidelines that MarCom follows at present.

- ‘Guidance for Ports in Small Island Countries’ (approved by ExCom in 2021)
- ‘Tsunami Mitigation in Ports’ (Approved by ExCom in 2021)
- ‘Guidelines for the Use of BIM in Infrastructure for Ports and Waterways’ (Approved by ExCom in 2021)
- ‘Shore Power Connection, a Guideline for the Planning and Implementation of Shore Power Connections’
2.6 Pictures

*MarCom site visit to the Locks of Terneuzen*

*MarCom meeting in Brussels*
2.7 List of Members of MarCom – December 2020

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

Members
- Mr Arjan van der Weck, the Netherlands
- Mr Peter Hunter, UK
- Mr Hans Burchart, Denmark
- Mr Tore Lundestad, Norway
- Mr Koen Van Doorslaer, Belgium
- Mr Yoshiaki Higuchi, Japan
- Mr Pierre Aristaghes, France
- Mr Andrea Ferrante, Italy
- Mr Ron E. Heffron, USA
- Mr Rafael Escutia, Spain
- Mr Mattias Sandell, Sweden
- Mr Peter Fountain, Australia
- Mr Mohammad Reza Allahyar, Iran
- Mr Sohyun Kwon, Korea
- Mr Héctor Escobar, Colombia
- Mr Carlos Gines, Argentina
- Mr Constante T. Fariñas, Philippines
- Mr Simo Kerkelä, Finland
- Mr Patrick Verhoeven, IAP
- Mrs Maria Graca Neves, Portugal
- Mr H.N. Aswath, India
- Mr Milen Todorov, Bulgaria
- Mr Santiago Coral, Ecuador
- Mr Robert Howe, Germany
- Mr Samir Gharbi, Canada

Alternate Members
- Mr Richard Styles, USA
- Mr Scott William Keane, Australia
- Mr Juan Francisco Herrera, Colombia
- Mr Marcelo Peyregne, Argentina
- Mr Carlito M. Castillo, Philippines
- Mr Hidenori Takahashi, Japan
- Mr Olivier Piet, France
- Mr Nikola Kirov, Bulgaria
- Mr Jorge Torres, Ecuador
- Mr Ricardo Carvalho, Portugal

Young Professionals
- Mr Kim Andersson-Berlin, Finland
- Mr Michael Grace, UK
- Mr Christopher Thomas, USA
- Mr Christopher H. Ornum, Philippines
- Mr Ed Backlund, USA
- Mrs Sara Iglesias, Spain
- Mr Filip Mortelmans, Belgium
- Mr Marcelo Acosta, Ecuador

Egbert van der Wal
Chairman of PIANC MarCom

Noelia González Patiño
Secretary of PIANC MarCom
3 REPORT OF THE INLAND NAVIGATION COMMISSION (INCOM) 2020

The year 2020 was a very difficult year for everyone, as the COVID-19 pandemic forced the whole world to slow down, to change the way of working, communicating and living. In light of such a crisis, the Inland Navigation Commission (InCom) tried to stay positive and keep working on various topics in the field of inland navigation.

Regardless of the limitations and restrictions, four InCom reports were published, kick-off meetings for three new Working Groups were organised, and a call for one new WG was launched.

3.1 COMMISSION MEMBERSHIP

In 2020, the membership of InCom changed for some countries, with new members representing Austria, Belgium, Japan and the UK, and with three new countries being represented in InCom: Bulgaria, Peru and Portugal. Three very important members of InCom retired: Jim Sterling from the UK, Michael Fastenbauer from Austria and Jean-Michel Hiver from Belgium, while Gernot Pauli is now representing Germany as Alternate Member, after he left CCNR. Jeremy Giovando joined InCom as PIANC Climate Change Champion.

InCom would like to wish Jim, Michael and Jean-Michel all the best in the future, and to thank them for their dedication and commitment to InCom.

3.1.1 InCom Members at the End of 2020 Are:

- Philippe Rigo (Belgium) Chairman
- Jasna Muskatirovic (Serbia) Secretary
- Leonel Temer (Argentina)
- Jürgen Trögl (Austria)
- Katrin Haselbauer (Austria)
- Stefan Devocht (Belgium)
- Catherine Swartenbroekx (YP, Belgium)
- Adalberto Tokarski (Brazil)
- José Renato Ribas Fialho (Brazil)
- Milko 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 Saffari (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)
- Richard Wakelen (United Kingdom)
- José Sanchez (USA)
- Brian Tetreault (USA)
- Ton Nu Thi Thanh YEN (Mekong River Commission)
- Akula Nidarshan (expert, India)
- Jeremy Giovando (USA – PIANC Climate Change Champion)

3.2 MEETINGS

The InCom Commission held three meetings during 2020:

- 1 face-to-face meeting No. 84, which was held on 28-29 January 2020 at PIANC HQ in Brussels (Belgium)
- 2 online meetings: No. 85 (17 June 2020) and No. 86 (30 September-1 October 2020).
The main subjects of meetings were:

- Information on the activities of the Association
- Update on the progress made by various Working Groups
- Preparation of ToR for new Working Groups
- Promotion of finalised WG-reports

### 3.3 Published Reports

In 2020, four InCom reports were published:

**WG 179** – ‘Standardisation of Inland Waterways – Proposal for the Revision of the ECMT 1992 Classification’

Ivo ten Broeke (Chairman)
Didier Baudry, Didier Bousmar, Meike Eilts, Kai Kempmann, Otto Koedijk, Anja van der Sluijs

**WG 189** – ‘Fatigue of Hydraulic Steel Structures’

Dirk Jan Peters (Chairman),
Ryszard Daniel, Gerard Bouwman, Dirk Van der Tol, Travis Adams, Thomas Hesse, Matthias Schaefers, Linda Petrick, Isabelle D’hooghe, Greg Murray

**WG 191** – ‘Composites for Hydraulic Structures’

Hota Gangarao (Chairman),
Jonathan Benvenuto, Wouter Claassen, John Clarkson, Jos P. Krabe, Casper Kruger, Rulfeng Ray Liang, Pablo Sánchez Sierra, Liesbeth Tromp, Jonathan Trovillion, Martijn Veltkamp

**WG 201** – ‘Framework for an Inland Waterway Classification in South America’

Philippe Rigo, Ricardo Sánchez, Azhar Jaimurzina (Chairmen),
with representatives of South American countries and PIANC members

InCom would like to thank all Chairmen and Members of these four Working Groups for their great work and dedication in preparing these reports.
3.4 PROGRESS OF EXISTING WORKING GROUPS

Chairman: Piet Creemers
Kick-off held in Lyon during the PIANC-SMART Rivers Conference, with the third meeting held online in September 2020. Finalisation of the work is planned for early 2022.

WG 128 – ‘Alternative Technical-Biological Bank Protection Methods for Inland Waterways’
Chairman: Bernhard Söhngen
Preparation of the report is in the final stages and it is expected to be published during 2021.

WG 190 – ‘Corrosion Protection of Lock Equipment’
Chairperson: Rebekah Wilson
Same as for previous report, publication is expected during 2021.

WG 197 – ‘Small Hydropower Plant in Waterways’
Chairman: Nicholas Crosby
The WG-report has been reviewed by the InCom members and has been submitted to PIANC HQ at the very beginning of 2021.

WG 198 – ‘Saltwater Intrusion Mitigations and Technologies for Inland Waterways’
Chairman: Tom O’Mahoney
The WG-report has been reviewed by the InCom members and it has been submitted to PIANC HQ at the very beginning of 2021.

WG 199 – ‘Health Monitoring for Port and Waterway Structures’
Chairman: Mathew Smith
Preparation of the report is in the final stages and it is expected to be published during 2021.

WG 203 – ‘Sustainable Inland Waterways – A Guide for Waterways Managers on Social and Environmental Impacts’
Chairman: Andreas Dohms
Preparation of the report is in the final stages and it is expected to be published during 2021.

Chairman: John Clarkson
The WG is making good progress and holding regular online meetings. The WG is hoping to finalise the report in 2022.

Chairman: Hu Yaan
The latest meeting was held mid-2020, with some chapters already drafted. It is expected that the first draft of the report will be available end of 2021.

WG 210 – ‘Smart Shipping on Inland Waterways’
Chairman: Ann-Sofie Pauwelyn and Lea Kuiers
The WG-members are very committed to work on the report and hopes to finalise it by the beginning of 2022.

WG 216 – ‘Best Practices in Planning Inland Waterways Multimodal Platforms’
Chairman: Roberto Zanetti
A number of members left the WG and the question is how the work could be finalised. InCom would like to ask all National Sections to propose their experts to the work, so this WG can be continued.

WG 219 – ‘Guidelines for IW Infrastructure to Facilitate Tourism’
Chairman: Akula Nidarshan
The kick-off meeting was organised online in June 2020. Twelve members participated in the meeting. This WG is a joint PIANC-IWI initiative.

WG 228 – ‘Extended Values of ‘Low-Use’ Inland Waterways’
Chairman: Arjan de Heer
The online kick-off meeting was organised in May 2020. Ten members participated in the meeting.
WG 229 – ‘Guidelines for Sustainable Performance Indicators for Inland Waterways’

Chairman: Klaas Visser

The online kick-off meeting was held in April 2020. Twelve members participated in the meeting.

TG 234 – ‘Infrastructure for the Decarbonisation of IWT’

Chairman: Mark van Koningsveld

The Chairman and members were selected in December 2020. An online kick-off meeting was held on 20 January 2021. Some ten experts from Asia and Europe were expected to attend. Participation from USA would be very beneficial.

WG 236 – ‘Sustainable Management of the Navigability of Free Flow Rivers’

A Call for Members was sent out in November 2020 and InCom would like to ask all National Sections to nominate their experts to this Working Group.

3.5 InCom Website

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

3.6 Conclusion

The year 2020 was a very difficult year, but regardless of the obstacles they were facing, the experts participating in the preparation of the Working Group reports have done their very best to keep up the great work. We would like to thank them for their dedication and hard work in preparing reports of the highest quality.

Philippe Rigo
Chairman of PIANC InCom

Jasna Muskatirovic
Secretary of PIANC InCom
4 REPORT OF THE ENVIRONMENTAL COMMISSION (ENVI.COM) 2020

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), as well as 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

33 members from 17 nations (Australia, Argentina, Belgium, Colombia, Finland, France, Germany, India, Iran, Japan, Korea, the Netherlands, Norway, the Philippines, Spain, UK, USA) and 7 partner organisations (CCNR, CEDA, EUDA, IADC, IAPH, INE, Ports Australia).

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

4.2.1 Country Members:

- Argentina: Gerardo Bessone
- Australia: Marika Calfas
- Belgium: Marc Huygens, Filip Vandeputte
- Colombia: Ricardo Schmalbach
- Finland: Olli Holm
- France: Paul Scherrer
- Germany: Elmar Fuchs
- India: R.D. Tripathi
- Iran: Nasser Hadjizadeh Zaker
- Japan: Masahiko Fukami
- Korea: Myoung-hak Oh
- The Netherlands: Daan Rijks
- Norway: Anne Kibsgaard, Arne Petterson
- Philippines: Reynand Parafina, Emler Nonatus A. Cadano, Christopher Ornum (YP)
- South-Korea: Myoung-hak Oh
- Spain: Rócio López Picón, Carlos Acosta
- United Kingdom: Jan Brooke, Jack Muldoon (YP)
- USA: Burton Suedel, Victor Magar

4.2.2 Commission Representatives:

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

4.2.3 Members from Partner Organisations:

- IADC: René Kolman
- CEDA: Anna Csiti, Frederik Roose
- EUDA: Paris Sansoglou
Additionally, the following experts acted as Chairpersons of Working Groups and attended EnviCom meetings in 2020:

- PTG CC: Jan Brooke/Chairperson
- PTG EU WFD Navi TG Jan Brooke
- WwN Jury Elmar Fuchs
- 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 195 – ‘An Introduction to Applying Ecosystem Services for Waterborne Transport Infrastructure Projects’: Al Cofrancesco
- WG 214 – ‘Beneficial Sediment Use’: Victor Magar, Luca Sittoni
- WG 218 – ‘The Implications of Invasive Alien Species for Waterborne Transport Infrastructure’: Safra Altman

4.3 Meetings

EnviCom held one face-to-face meeting and one virtual meeting in 2020.

The 52nd meeting was held in Brussels, Belgium, hosted by PIANC Headquarters, during 28-29 January 2020, in conjunction with the 22nd meeting of the Permanent Task Group on Climate Change (PTG CC) on 27-29 January 2020.

The 53rd meeting was virtual and was held on the 3 September 2020.

The 54th meeting was held online on 26-27 January 2021.
4.3.1 Next Meetings in 2021:

- Virtual bi-monthly meetings will be held throughout 2021.

4.4 Working Groups, Technical Recommendations and Guidance

EnviCom continued its work in 2020 in the following fields:

4.4.1 Dredging

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

The work continues on the topic of environmental aspects of dredging, port and waterway construction around coastal plant habitats. A complete draft of the report is expected in 2021.

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

The work on WG 170 continued in 2020 with an expected completion of the draft report in 2021.

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

Despite COVID-19 restricting face-to-face gatherings, PIANC EnviCom WG 214 on ‘Beneficial Sediment Use’ has been making progress towards completing their report. The WG hosted two ‘Sediment Beneficial Use’ workshops, the second one on 30 January 2020, held in conjunction with the PIANC winter meetings in Brussels. The Brussels workshop consisted of 35 participants focused on the opportunities and hurdles to beneficial use in European Nations. Participants came from across Europe with perspectives from as far as Dubai. Presenters gave their perspectives from the dredging, regulatory, technology, and program communities. The input received during this workshop and the previous workshop held in Australia in October 2019 will help inform the content of the WG 214 report. The WG is planning to publish the report in late 2021. Related photos below were generated during the Brussels workshop.

Photo 1: Dr. Todd Bridges, EnviCom Chair, gives the workshop its charge: (1) How can we move beneficial use to the first option and not an alternative? (2) How can we streamline beneficial use? and, (3) how can we establish the environmental, economic, and social benefits of beneficial use over the project lifecycle?
4.4.2 Ports:

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

Work continues on this important topic. While working on the report, it was determined that there is a need for clear sector guidance for the port sector which was added in 2020. The WG-report will be completed in 2021.

4.4.3 Navigation:

WG 218 – ‘The Implications of Alien Invasive Species for Waterborne Transport Infrastructure’
Chairperson: 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 six virtual work days in lieu of face-to-face meetings with a set of virtual working days scheduled for 26-29 January 2021. In addition, the WG is also holding monthly meetings in between scheduled virtual work days. The report is progressing well. Initial drafts of introductory, risk and risk reduction strategies (Sections 1-4) have been developed. Development of sections focused on impact response and mitigation are ongoing and remaining sections include economic evaluation and justification and conclusions. A supporting database of AIS of concern for waterborne transport infrastructure is also under development.

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

Working Group 226 currently has ten members and has held three virtual meetings to date, with a last meeting for 2020, which was scheduled for December. The report is in its early stages but is progressing well. The report scope is focused on providing technical information to decision makers regarding the risk assessment and management process for underwater sound. The risk methodology will draw from existing approaches and best practices worldwide and be written using understandable terms.

The Terms of Reference and report Table of Contents have been agreed by the WG members. Introductory sections of the report relating to a description of underwater sound, it’s sources, units of measurement and an overview of potential environmental effects, are underway. Work on sections relating to the assessment of risk (screening assessment versus detailed assessment), and a framework for the development of management measures, will commence in 2021.

WG 195 – ‘An Introduction to applying Ecosystem Services for Waterborne Transport Infrastructure Projects’
Chairman: Al Confrancesco (USA), EnviCom/PTG CC mentor: Elmar Fuchs (Germany)

This WG report has been completed and will be published in 2021. In addition to report publication, the WG will be organising a seminar.

4.5 Strategic Initiatives

4.5.1 Working with Nature (WwN) [http://www.workingwithnature.pianc.org/]

Support of WwN continues to grow within the navigation sector worldwide. Several projects were submitted to PIANC by project teams around the world to have their projects considered for WwN certification and to have their projects considered for the WwN award. This award, which is presented every four years, recognises outstanding application of the WwN philosophy and approach to navigation infrastructure. EnviCom and PIANC continue to develop ideas for promoting WwN within the sector.

Enhanced communication about WwN has been decided by ExCom, in particular with the appointment of a ‘Communication Officer’ for WwN and also some modification to PIANC website to facilitate submission of projects.

4.5.2 EU Water Framework Directive Navigation Task Group (PTG1) [https://www.pianc.org/eu-water-framework-directive]

4.5.2.1 Headline Activities in 2020

Having raised the important issue of the role of sediments in natural aquatic ecosystems in their response to the 2019 Fitness Check of the Water Framework Directive, the PIANC-led WFD Navigation Task Group has been happy to be fully engaged in the ongoing preparation of a new technical document on sediment management. This document, which is due for finalisation in 2021, will outline good practice with regard to catchment scale understanding, sediment quantity, sediment quality, and sediment management planning. Whilst the document is being developed in a European WFD context, the documented good practice and lessons learnt are mostly applicable globally.
Task Group members also participated in several other WFD-related initiatives during 2020-2021. These included an activity to compare the ways in which EU member states set ecological objectives for water bodies that have been physically modified; and a Task Group exploring cost-recovery and other funding mechanisms for the delivery of the ‘measures’ needed to meet the WFD objectives.

4.6 The Future

The year 2021 starts another busy and productive year for EnviCom. Several of our WG’s will be completing their work in 2021 including those on ecosystem services and sediment beneficial use. Several new Terms of Reference are under active development, which will lead to new WG’s 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 2021.

Todd Bridges  
Chairman of PIANC EnviCom

Edward Brauer  
Secretary of PIANC EnviCom
PIANC’s PTG CC held face-to-face meeting No° 22 in Brussels on 27-28 January 2020. Part of the meeting was held jointly with the Navigating a Changing Climate partners. PTG CC meeting No° 23 was held virtually in two parts, on 17 and 22 September 2020.

Chairperson, Jan Brooke, supported by Secretary Monica A. Altamirano, welcomed several new members to the PTG CC over the course of the year. These included new USA representatives (full, alternate and YP) and the four ‘Climate Change Champions’ for each of PIANC’s Technical Commissions: Gildas Colleter for MarCom, Jeremy Giovando for InCom, Greg Fisk for RecCom, and Kate Panayotou for EnviCom. The role of these Climate Change Champions will include:

- Ensuring all PIANC WG-reports (new, ongoing and existing) are ‘climate-proofed’.
- Embedding and then delivering the aspirations set out in the PIANC Climate Change Declaration (https://www.pianc.org/navigating-a-changing-climate), for example, through new Working Groups or organised events.
- Providing an effective link between the activities of each Commission and the PTG CC, and in so doing.
- Helping to strengthen interactions and ensure the PTG CC meets the needs of the wider PIANC membership.

PTG CC’s work moved online from March 2020 and was able to continue largely uninterruptedly by the pandemic. The two remaining Working Groups supported by PTG CC were published during the year: WG 178 on ‘Climate Change Adaptation Planning’ in January 2020, and TG 193 on ‘Resilience of Maritime and Inland Waterborne Transport Systems’ in May 2020.

The update of the 2008 TG 3 report on ‘Climate Change and Navigation’ was delayed, but good progress was made towards the end of the year with several virtual meetings being held. The TG 3 revision is now expected to be published in 2021.

Work also continued on the development of a PIANC-PTG CC position paper on dealing with climate change uncertainties; and PTG CC members reflected on the many emerging synergies between climate change preparedness (particularly in view the expected increase in severity and frequency of extreme events) and the early lessons learnt from the COVID-19 pandemic.
In line with many other international climate-related events, including the main UNFCCC Conference of the Parties (COP 26) which was due to be held in Glasgow, Scotland, in November 2020, the pandemic led to the postponement of several activities planned by the partner associations in the PIANC-led Navigating a Changing Climate initiative (http://navclimate.pianc.org).

Notwithstanding the postponement of the IAPH World Ports Congress, May 2020 saw the publication of the IAPH World Ports Sustainability Report. This report, with sections on Climate and Energy, and Resilient Infrastructure, includes an overview of the results of the NavClimate survey on the costs and consequences of extreme weather events. Further follow up of this survey is intended to be published in 2021.

IHMA and other NavClimate partners also worked to progress the port-call optimisation initiative at the IMO. Agreed guidelines on this topic could underpin a significant reduction in greenhouse gas emissions from vessels.

Most of the concluding events of the NavClimate 2015-2020 programme were postponed or cancelled, including the initiative’s planned ‘conference-within-a-conference’ at PIANC-COPEC in the Philippines. The ‘Adaptation Futures’ conference in India, where waterborne transport representatives had worked with others in the transport sector including PIARC, IRF and UIC, to prepare a series of linked events on transport resilience was also postponed. This is currently re-scheduled, likely as a hybrid event, for October 2021. The joint SedNet-NavClimate workshop, ‘Opportunities for Sediment Management in Addressing the Climate Change Challenge’, moved online and was held – very successfully, with around 200 participants – over two days in mid-February 2021. Several other NavClimate organised events are now proposed to be held virtually in the second half of 2021.
7 REPORT OF THE RECREATIONAL NAVIGATION COMMISSION (RECCOM) 2020

7.1 Introduction

This year was challenging on many levels, but also created opportunities to find different ways of communication and collaboration. RecCom remained active via digital meetings and webinar participations, while continuing its Working Group activities.

7.2 General Information

RecCom has been established to deal with recreational navigation infrastructure. It relates to leisure, sport and tourism navigation and focuses on the specialised facilities necessary to serve these activities. Sustainable planning, design and management of marinas and recreational navigation infrastructure, are matters on which the Commission serves the marina industry and the broad recreational navigation community. The community that we support includes technical, academic, government, and business actors, who can be drivers of a large economic activity.

RecCom recognises that it needs to be useful to the professional community that it serves, it needs to reach out to this community to raise awareness of its activities, and it needs to offer these community members the opportunity to participate in PIANC.

Recreational navigation berthing and supporting facilities interact among themselves and with other types of waterfront infrastructure, forming often complex systems. These activities and infrastructure need to relate positively with commercial navigation, such as transport and fishing, and its infrastructure, seeking synergies and mutual benefits. RecCom intends to continue working with MarCom and InCom to promote synergies and prevent conflicts between recreational navigation and commercial waterborne transport.

Ecological planning and social sustainable approaches to marina design can enhance the societal benefits of these facilities. Coastal and shoreline land uses, such as urban waterfronts and tourism development, often include this type of facilities and can receive added value from sustainable recreational navigation. Recreational navigation infrastructure can also be part of habitat protection and ecological restoration programs, including those that are part of waterborne transport projects. RecCom intends to continue working with EnviCom to promote synergies between both commissions and expand WwN and PTG CC activities in the marina community.

It is the policy of the Commission to produce a regular flow of reports and to contribute to the technical support of the professional community working in the marina industry. Interaction with this community includes participation in industry events and PIANC conferences, training professionals involved in marina development, and recognition of excellence in design.

It is the aspiration of this Commission to be useful and relevant to this community in all parts of the world, supporting the growth of recreational navigation activities and businesses though the promotion of best practices for the development of sustainable infrastructure.

To achieve these goals, RecCom works closely with other organisations with similar and complementary objectives, such as the International Council of Marina Industry Associations (ICOMIA) and aims at strengthening its commitment through outreach to the marina and boating industry worldwide. In order to serve the community, we reach out to all its members to understand their needs, seek their collaboration, and offer our services and products in a collaborative framework.

7.3 Strategic Alignment with PIANC Mission

7.3.1 PIANC Mission by RecCom

RecCom provides expert guidance and technical information through high-quality technical reports and connects the international recreational navigation infrastructure and marina community through a variety of products and events on a global scale and the environment.
**RecCom** develops technical knowledge and guidance to advance the sustainable development and use of **recreational** navigation infrastructure to support world and national economies, our communities.

**RecCom** promotes excellence in sustainable planning, design, construction, operation and management of **marinas and recreational navigation** infrastructure.

### 7.4 Members

Commission Members as of 12 January 2021 are:

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<tr>
<th>Members</th>
<th>Country, Role</th>
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<tr>
<td>Esteban Biondi</td>
<td>Chairman</td>
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<td>Nicolas Pisarello</td>
<td>Secretary, USA</td>
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<td>Michiel de Jong</td>
<td>The Netherlands, Vice Chair, PR</td>
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<td>Claudio Fassardi</td>
<td>Argentina, PR</td>
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<td>Greg Britton</td>
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<td>Caroline Bremersch</td>
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<td>Cpt. Luc Météns</td>
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<td>John Kwong</td>
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<td>Eduardo Alejandro Montagut C.</td>
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<td>Liina Harm</td>
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<td>Mirja A. Rosenberg-Kurki</td>
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<td>Arnaud Guillard</td>
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<td>Laurent Monsaigeon</td>
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<td>Pierre Gaufres</td>
<td>France, PTG CC Observer</td>
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<td>Hans Nickels</td>
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<td>Masato Yamashita</td>
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<td>Thor Messel</td>
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<td>Gian Battista Borea d’Olmo</td>
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<td>René Bouchet</td>
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<td>Francesco Ligorio</td>
<td>YP-Com Representative</td>
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<td>Martinho Fortunato</td>
<td>Portugal, ICOMIA/IMG</td>
</tr>
<tr>
<td>Oscar Siches</td>
<td>Spain, ICOMIA/IMG</td>
</tr>
<tr>
<td>Roberto Perocchio</td>
<td>Italy, ICOMIA/IMG</td>
</tr>
<tr>
<td>Peter Jansen</td>
<td>Germany, ICOMIA/IMG</td>
</tr>
</tbody>
</table>

(PR = Principle Representative ; AR = Alternate Representative ; YP = Young Professional)
The Commission will continue trying to increase participation by members, expand membership by additional representation, and promoting the invitation of observers from non-member countries to expand its reach and become more meaningful internationally.

### 7.5 RecCom Core Activities

The Commission is responsible for setting up and managing:

- Working Groups for production of high-quality technical reports and guidelines.
- The Marina Excellence Design 'Jack Nichol' Award (MEDA), for promoting excellence in marina design.
- The Marina Design Training Programme (MDTP), which organises specific courses on marina design at an international level.

The Commission also organises marina-related activities within PIANC major events and participates in other industry events.

### 7.6 Working Group Activity During 2020

#### 7.6.1 Working Group Status Summary

RecCom Working Group reports published during 2020 include:

**WG 147** – ‘Guidelines for Management of Recreational Navigation Activities within Fishing and Commercial Ports’  
This report was published in early 2020.

**WG 168** – ‘Single Point Yacht Mooring Design’  
This report was published in mid-2020.

Highlights of ongoing Working Groups include:

**WG 148** – ‘Recommendations for Environmentally Sustainable Recreational Navigation Infrastructure’  
Has received additional contributions during 2020 and is expected to be published during 2021.

**WG 149** – ‘Guidelines for Marina Design’  
Has been relaunched to complete the two last parts of the 5-part programmed document.

**WG 182** – ‘Underwater Acoustic Imaging of Waterborne Transport Infrastructure’  
Was expected to have a draft for review by other commissions during 2020, but publication was delayed until 2021.

**WG 209** – ‘Recommendations for Use of AIS Data for Recreational Navigation Infrastructure’  
Has been repurposed to produce a Position Paper, which will be published in 2021.

#### 7.6.2 Summary of All Ongoing RecCom Working Groups

<table>
<thead>
<tr>
<th>No.</th>
<th>Working Group Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>147</td>
<td>Guidelines for Management of Recreational Navigation Activities within Fishing and Commercial Ports</td>
<td>Published in 2020</td>
</tr>
<tr>
<td>148</td>
<td>Recommendations for Environmentally Sustainable Recreational Navigation Infrastructure</td>
<td>Final Draft Compilation in Progress</td>
</tr>
<tr>
<td>149</td>
<td>Guidelines for Marina Design</td>
<td>Parts 3 and 5 pending</td>
</tr>
<tr>
<td>168</td>
<td>Single Point Yacht Mooring Design</td>
<td>Published in 2020</td>
</tr>
<tr>
<td>169</td>
<td>Fire System Detection and Controls in Marinas</td>
<td>Making slow progress</td>
</tr>
<tr>
<td>182</td>
<td>Underwater Acoustic Imaging of Waterborne Transport Infrastructure</td>
<td>For publication in 2021</td>
</tr>
<tr>
<td>202</td>
<td>Influence of Recreational Navigation Infrastructures (RNI) on Waterfront Projects</td>
<td>Making progress</td>
</tr>
</tbody>
</table>
Recommendations for use of AIS Data for Recreational Navigation Infrastructure

A Position Paper will be published in 2021

The Impacts of Alternative Fuel Propulsion Systems for Recreational Vessels on Marina Design and Management

Kick-off in early 2021

Planning, Design and Operational Guidelines for Pump-Out Systems in Recreational Facilities

In formation

Design Guidelines for Recreational Boating Slipways

In formation

Design Guidelines for Floating Breakwaters in Marinas

Launched in 2020

Meaningful Inclusion of Fishing Communities in Recreational Marinas – Guidelines for Planning

In formation

### 7.7 PIANC Marina Excellence Design ‘Jack Nichol’ Award (MEDA)

On 27 October 2020, RecCom Vice-Chairman, Michiel De Jong, announced the winner of the Marina Excellence Design ‘Jack Nichol’ Award (MEDA) during the ICOMIA World Marinas Conference Industry Reconnect digital event.

The purpose of the Award is to recognise excellence in the design of modern recreational boating facilities around the world. The award is administered by the Recreational Navigation Commission and funded by an endowment through PIANC USA.

Submittals included four highly qualified marinas. The formal evaluation process resulted in the selection of the award recipient, IGY Yacht Haven Grand Marina in St Thomas, US Virgin Islands.

Owner & Operator: IGY Marinas  
Designer: Applied Technology & Management

The Award Plaque will be presented to the winner in the next ICOMIA Marina World Conference, scheduled for 2021.

The Call for Applications remains open for the next award cycle.

### 7.8 PIANC Marina Design Training Programme (MDTP)

MDTP activities were suspended during 2020, but various webinars were supported by RecCom Commission and Working Group members, as described below.
7.9 RecCom Meetings during 2020

The RecCom meetings in 2020 started during the PIANC winter meetings week in Brussels, as every year, with one remote participant.

Subsequently, as everyone else, we shifted to fully digital meetings.

- RecCom Meeting N° 75 in Brussels, Belgium – Wednesday 29 January 2020
- RecCom Meeting N° 76 – Digital Meeting – Wednesday 5 August 2020
- RecCom Meeting N° 77 – Digital Meeting – Thursday 8 October 2020
7.10 Other Activities of RecCom

7.10.1 ICOMIA ‘World Marina Conference – Industry Reconnect’

RecCom Chair Esteban Biondi participated in the panel ‘Vision of Change’ and presented ‘Marina Sustainable and Resilient Design Principles’. The session was closed with the Marina Excellence Design ‘Jack Nichol’ Award winner announcement.

![Image of panelists at the ICOMIA World Marina Conference]

7.10.2 ISO Dry Stack Standard

At the virtual World Tourism and Related Services (TC228) meeting of the ISO organisation in June 2020, it was announced that a new standard for Dry stack facilities will be developed by TC228/WG8 to identify the dry stack user needs from a touristic point of view. While the standard does not intend to address technical or construction issues, it was decided that it will use PIANC Working Group 132 as technical and operational reference. The ISO Dry Stack Standard is planned to be published in the second half of 2022. RecCom member Oscar Siches is also ISO TC228 WG 8 Convenor.

7.10.3 Webinars

RecCom Chair Esteban Biondi presented two webinars organised in coordination with PIANC Argentina and presented in Spanish, which are available on YouTube.

The first event was organised by the Graduate School of Port Engineering of the University of Buenos Aires (EGIP-FIUBA) and sponsored by AADIP and PIANC Argentina. The webinar was held on 9 June 2020 as an activity within the Port Planning Course taught by Pablo Arecco, with the title ‘Marina Planning and Design – Principles of Integrated Planning and Project Examples’. Originally intended for graduate students of the programme, it was later expanded to PIANC members and guests.
The second event was organised at the request of the University of Costa Rica, but was also presented as the second part of the EGIP-FIUBA series on Marina Planning and Design, focused on environmental issues. Sponsored by Applied Technology & Management and held on 18 June 2020, it had an attendance of 98 participants from 14 countries. The webinar titled ‘Working with Nature – Sustainable Coastal Design Applied to Tourist Marinas’ and was a presentation of the PIANC Working with Nature initiatives and RecCom Working Group 148 contributions.

7.10.4 PIANC Korea Activities

RecCom Korea has revised the Korean Marina Design Standard in 2020. In the past, RecCom Korea had translated PIANC Technical Reports and proliferated them to the local marina industry. But in 2020, the committee took a more active approach. The Korean Marina Design Standard was first published in 2005 to match the growing needs of the marine leisure industry. The formality of the Design Standard had been modified a few times; however, it was the first time in 15 years that the actual contents were upgraded and revised. To reflect safety and environmental issues in the marina industry, many PIANC documents were referenced in the newly revised Design Standard. In result, the Design Standard became more harmonised with the technical guidelines of PIANC RecCom.

7.10.5 PIANC APAC 2020 Conference

Andrew Brown, member of WG 222, presented at the inaugural APAC 2020 Conference, which took place as a hybrid event organised by PIANC ANZ. The presentation on the Working Group progress stirred up some discussion and generated interest in contributing case study inputs, so it was considered a positive undertaking for the Working Group progress.

Esteban Biondi
Chairman of PIANC RecCom

Nicolas Pisarello
Former Secretary of PIANC RecCom
8 REPORT OF THE CO-OPERATION COMMISSION (COCOM) 2020

8.1 Introduction

2020 was, in many respects, an unusual year for CoCom, given its outward facing mission and the onslaught of the COVID-19 pandemic around the world. The year saw an attempted continuation of the activities of the Commission begun over the last several years. This Annual Report summarises those activities and describes the progress made with respect to certain goals of the Commission during the year.

8.2 Members of the Commission

- Edward Schmeltz, USA – CoCom Co-Chairman
- Akula R. Rao, India – CoCom Co-Chairman
- Peter De Wolf, Belgium – Secretary
- Jefferson Vianna Bandeira, Brazil
- Kenji Ono, Japan
- Jean-Marc Deplaix, France
- Ron Cox, Australia
- Calvin Creech, USA
- Abbas Sarmad, Australia (alternate)
- Hector Miole, the Philippines
- Hartmut Brühl, Germany
- Rogelio Gordon, Panama
- Herman Pals, the Netherlands
- Geert Van Cappellen, PIANC Secretary-General
- Freddy Wens, Belgium – PIANC-COPEDEC IOC Chairman
- Enrique de Faragó Botella, Spain
- José-Luis Monso de Prat, Spain (Alternate Member)
- Bum Sik Shin, South Korea
- Daphne Thoon, Belgium (YP)
- Razzazan, Iran
- Mohammad Hossein Nemati, Iran (Alternate Member)
- Han Ligteringen, the Netherlands – Observer
- Lillian Almodovar, USA – Observer
- Kevin Knight, USA – Observer
- Ronald Stive, the Netherlands – Observer

8.2.1 Several Changes to the Membership

Calvin Creech replaced Kevin Knight as the USA representative. Kevin Knight, however, wants to continue to participate in the activities of PIANC and has asked for the status of Observer within CoCom.

Michael Fastenbauer, the representative of Austria in CoCom, is retiring and leaving CoCom. In agreement with the PIANC Secretary-General, Austria will not nominate a new representative in CoCom, since the possibilities of the Austrian NS are limited and the NS currently cannot really contribute to the actual activities of CoCom.

The Netherlands representative Ronald Stive has retired and was replaced by Herman Pals. However, Ronald Stive asked to be kept informed of CoCom activities as a CoCom Observer.

Young-Min Oh was replaced by Bum Sik Shin as representative of South Korea. Young-Min Oh also asked to be kept on the CoCom mailing list as an Observer. Calvin Creech replaced Kevin Knight as the USA representative.

8.3 CoCom Meetings

During 2020, a Teams meeting was held on 30 January at PIANC HQ in Brussels. Some business during the balance of the year was conducted via telephone/computer but the COVID-19 pandemic prevented face-to-face meetings and interactions.

The meeting focused on recruitment and subcommittee activities. The national target list was updated and specific nations pursued during the year. Our focus continues to be on membership development. Attendance at the meetings has been good, generally including at least ten to twelve members.
8.4 Sub-Committees

8.4.1 SC 1 – Training & Education

SC-1, Training in Ports and Waterways, (formerly WG 126) continues to be headed by Ronald Stive. The SC’s database is on the PIANC website and relates to available training activities for Ports and Waterways. The commission continues to solicit input to that database but the response continues to be poor. We reiterate the request that anyone with training opportunities provide information to the database to maximise its utility in the future.

8.4.2 SC2 – Regional Activities

Specific, targeted countries have been identified by CoCom members and will be invited to become active, participating members of PIANC. Mentoring will be provided by individuals on the Committee, regional Vice-Presidents and HQ personnel. Some examples include the mentoring of the Mekong river countries by the region of Flanders (Belgium), of Morocco by the French Section, Colombia by the US Section and of Argentina by the Spanish Section. Others we believe would benefit from membership include:

<table>
<thead>
<tr>
<th>Target Countries</th>
<th>To be followed up by NS</th>
<th>To be followed up within CoCom</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AMERICA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Mexico</td>
<td>USA/Spain/HQ</td>
<td>Calvin Creech</td>
</tr>
<tr>
<td>2. Canada</td>
<td>Rejoined in 2020</td>
<td></td>
</tr>
<tr>
<td>3. Chile</td>
<td>USA/Spain/Argentina</td>
<td>José-Luis Monsó/Kevin Knight (AAPA Conf. Valparaiso nov. 2018)</td>
</tr>
<tr>
<td>4. Uruguay</td>
<td>USA/Spain/Argentina</td>
<td>Kevin Knight</td>
</tr>
<tr>
<td>5. Peru</td>
<td>Netherlands/Spain/Argentina</td>
<td>Herman Pals</td>
</tr>
<tr>
<td><strong>AFRICA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Morocco</td>
<td>French National Section</td>
<td></td>
</tr>
<tr>
<td>7. Egypt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Kenya</td>
<td>Netherlands/UK</td>
<td>Abbas Sarmad</td>
</tr>
<tr>
<td>9. Mozambique</td>
<td>Portugal/South Africa</td>
<td>Ask Gary Mocke, South Africa, Herman Pals</td>
</tr>
<tr>
<td><strong>ASIA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. China</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Myanmar</td>
<td>USA/Netherlands/Japan</td>
<td>Herman Pals/Kenji Ono</td>
</tr>
<tr>
<td>12. Fiji &amp; Papua New Guinea</td>
<td>Australia</td>
<td>Ron Cox</td>
</tr>
<tr>
<td>13. Cambodia</td>
<td>Japan/Belgium</td>
<td>Signed in 2020</td>
</tr>
<tr>
<td>14. Singapore</td>
<td></td>
<td>Neil Lawson</td>
</tr>
<tr>
<td>15. Indonesia</td>
<td></td>
<td>Neil Lawson</td>
</tr>
<tr>
<td><strong>MIDDLE EAST</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. UAE</td>
<td>PIANC HQ</td>
<td>Geert Van Cappellen</td>
</tr>
<tr>
<td>17. Qatar</td>
<td>USA</td>
<td>Edward Schmeltz/Abbas Sarmad</td>
</tr>
<tr>
<td>18. Kuwait</td>
<td>USA</td>
<td>Edward Schmeltz/Abbas Sarmad</td>
</tr>
<tr>
<td>19. Oman</td>
<td></td>
<td>Mohammadreza Allahyar/Port of Antwerp</td>
</tr>
<tr>
<td><strong>EUROPE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. Poland</td>
<td>PIANC HQ</td>
<td>Geert Van Cappellen</td>
</tr>
<tr>
<td>21. Portugal</td>
<td>PIANC HQ</td>
<td>Signed in 2020</td>
</tr>
</tbody>
</table>

The list is dynamic and continues to be adjusted based on political and practical realities.

A key component of CoCom’s membership initiative is the nurturing of new member organisations. Successes in the Philippines, recruited during 2015 with a seminar held in country late in 2014 to help solidify the Section; followed by Indonesia in 2015 and 2016 and Cambodia in 2019.

The overall approach is being used as a template to reach out to other nations in a similar fashion to encourage membership in the organisation. Lillian Almodovar and Calvin Creech, with support from HQ, continue to provide coordination and support to the Colombian Section and other Latin American
activities. Calvin took over the slot from Kevin Knight who has been reassigned by the US section. José-Luis Monso de Prat continues to encourage Chilean involvement in the organisation.

Additionally, PIANC USA, in collaboration with other PIANC National Sections and Qualifying Members in America, has continued to refine a work plan aimed at strengthening and expanding PIANC in America. Given the impact of the pandemic around the world, calls were established to share updates and discuss strategies.

One of the primary elements of this work plan is the development and implementation of a biennial Regional Conference for the Americas. This Conference would be tailored to address the particular needs and challenges of the Americas and help achieve the goals of the work plan. The second Conference was planned for the first quarter of 2021 in USA but has been delayed by general consensus.

The PIANC Sections in Australia, the Netherlands and Japan are all currently actively engaged in similar efforts in their respective geographies.

The Australian Section has taken a number of actions consistent with their strategic plan and with the objectives of CoCom for expanding PIANC membership.

8.4.3 SC3 – PIANC-COPEDEC X Conference

Just before the worldwide spreading of the Covid crisis, the Paper Selection Committee, the Fellowship Award Committee (FAC) and the International and Local Organising Committees for the PIANC-COPEDEC X Conference had their meetings in Manilla from 10 to 15 February 2020.

The PSC accepted 201 of the 211 submitted abstracts. The FAC could grant 49 of the 70 fellowship applications for a total estimated cost of € 78,000. And the IOC-LOC did meet with the Professional Conference Organiser (Leverage International Consultants Inc.) to prepare the Conference, planned from 15 to 20 November 2020.

A few weeks later, the following message was put on the PIANC-COPEDEC 2020 website:

Due to the guidance from the Philippine Government, in response to the threat of Coronavirus Disease 2019 (COVID-19), the Philippine Ports Authority together with PIANC-Philippines, in consultation with the IOC, our local organisers and partners, is postponing the 10th International Conference on Coastal and Port Engineering in Developing Countries (PIANC-COPEDEC X 2020), originally scheduled to take place in Manila, Philippines from 15 to 20 November 2020 at a time and date to be determined.

At the PIANC Council Meeting of 28 October 2020, it was decided to postpone the PIANC-COPEDEC X Conference to 2022.

8.5 Action Plan

An Action Plan based on the new Strategic and Operating Plans was developed late in 2013 and is currently undergoing revision. That plan forms the basis for CoCom’s activities during the year. Specific undertakings are identified in the sections above. In brief, we anticipate continuing the technical outreach efforts to potential national sections who are interested in participating in these events.

This year marks the final mandate for the current Co-Chairs of CoCom. We would like to take a moment to thank all of the current and past members of the Commission for their support and encouragement over the years. A special note of thanks to Peter De Wolf, our recording Secretary for his support and guidance.

Edward J. Schmeltz and Akula Rao
Co-Chairpersons of PIANC CoCom
9 REPORT OF THE YOUNG PROFESSIONALS COMMISSION (YP-COM) 2020

9.1 Foreword

2020 started off as any normal year, with the Commission meeting in Brussels and the now annual tradition of the Belgian New Year’s Walk, this year set in the picturesque village of Aalst. Strolling through a small city centre with lots of interesting stories from our local guide, artwork across the city, the company of over twenty Belgian YPs, a few Dutch and a lost American – we enjoyed the culinary treats in different restaurants and the catch-up with fellow engineers and maritime enthusiasts. The YP-Com meeting on the following day at PIANC HQ still had a lot of exciting plans on the calendar, including Bristol in May 2020, a seminar in Brazil and PIANC-COPEDEC X in the Philippines. Little did we know about the year ahead.

Looking back on a year without any international in-person events, I am extremely proud of the resilience and digital connectivity that has been demonstrated throughout the PIANC Association, and especially within YP-Com. We have had great attendance of the virtual meetings that were held in May and November, we have gone through a significant change of board members remotely and all of the YP-Com Members have shown great effort and creativity to stay in the know, keep in touch with each other and organise alternative online events or smaller gatherings if possible locally.

I would like to take this opportunity to thank all YP’s, on behalf of the YP-Com Board, for their enthusiasm, support and positive mindset throughout this year, and for making the effort to stay in touch and create new as well as maintain existing contacts on a worldwide scale. With 2021 still being a largely virtual year from an international perspective, I 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 2,800 members in 2020.

Eslie Vrolijk
Chairperson YP-Com

9.2 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. The following was the 2020 composition of the YP-Com Board:

Eslie Vrolijk (the Netherlands)  Chairperson
Matthew Prumm (Australia)  Co-Chairman
Rodrigo Moltó Martín (Spain)  Secretary

Carolina Piccoli (Brazil)  Vice-Chairperson, the Americas
Virginia Sy (Argentina)  Alternate Vice-Chairperson, the Americas

Rodney Hancock (Australia)  Vice-Chairman, Asia-Pacific
Jack Lee vun Zac (Malaysia)  Alternate Vice-Chairman, Asia-Pacific
Hyun Dong Kim (Korea)  Alternate Vice-Chairman, Asia-Pacific

Lisa-Maria Putz (Austria)  Vice-Chairperson, Europe-Africa
Antonio Gomez (Spain)  Alternate Vice-Chairman, Europe-Africa
YP-Com representation within PIANC National Sections and Qualifying Members are represented by Delegates and Observers, while all other countries may be represented by YP Observers. 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.

**AMERICAS**

- Matías Palma (Argentina)
- Vincent Besson (Argentina)
- Sebastián Iglesias (Argentina)
- João Dobrochinsky (Brazil)
- Neville Berard (Canada)
- Andrea Viteri (US)
- Matthew McCarty (US)
- Edward Backlund (US)
- Nicole Pauly (US)
- Nick Stefani (US)
- Sebastián Solari (Uruguay)
- José Aldunate (Chile)
- Raúl Oberreuter (Chile)
- Ricardo Álvarez (Panama)

**EUROPE-AFRICA**

- Katrin Haselbauer (Austria)
- Filip Van de Wiele (Belgium)
- Koen Van Doorslaer (Belgium)
- Frederik Bourgois (Belgium)
- Kristine Pliegaard (Denmark)
- Kim Andersson-Berlin (Finland)
- Laure Herbert (France)
- Jordan Lagnado (France)
- Anja Brüning (Germany)
- Saber Elsayed (Germany)
- George Ioannidis (Greece)
- Francesco Ligorio (Italy)
- Irena Doets (Netherlands)
- Ingrid Lambert (Netherlands)
- Stef Boersen (Netherlands)
- Onno Mush (Norway)
- Magnus Thorsen (Norway)
- Marcia Lima (Portugal)
- Pablo Pita (Spain)
- Sara Zoccari (Spain)
- Kishan Tulsi (South Africa)
- Henrik Granroth (Sweden)
- Axel Hortebörn (Sweden)
- Heather Armour (United Kingdom)

**ASIA-PACIFIC**

- Claire Treeby (Australia)
- Gensheng Zhao (China)
- Sahar Mokhtari (Iran)
- Alireza Shafieefar (Iran)
- Afshan Khaleghi (Iran)
- Masayuki Banno (Japan)
- Naozumi Yoshizuka (Japan)
- Deokhee Won (Korea)
- Julie Kim (Korea)
- Ben Nair (Malaysia)
- Delaney Dasing (Malaysia)
- Aung Phyoe Kyaw (Myanmar)
- Chip Pohlen (New Zealand)
- Adrian Cayanan (Philippines)
- Zi Qian Yang (Singapore)
- Vera Wong (Singapore)
- Jia Hann Tan (Vietnam)

In addition to all our Delegates and Observers, there is an increasing representation of YPs in PIANC’s Technical and Other Commissions.
9.3 Meetings

In 2020, YP-Com held three commission meetings:

- **31 January 2020, Brussels, 32nd YP-Com Meeting**: the first meeting of the year was held at PIANC HQ in Brussels, with a total of twenty attendees (of which eight in-person, twelve online). PIANC’s Secretary-General, Geert van Cappellen, joined the meeting as we ran through the regional update of YP-Com membership, discussed commission vacancies and newly appointed members of the YP-Com Board and discussed the year ahead. During this meeting, the USA was formally selected as the host for the 8th Biennial Technical Visit (BTV).

- **19 May 2020, online, 33rd YP-Com Meeting**: this meeting was 100% online, attended by thirty-eight Young Professionals from all over the world. A brief introductory presentation was for new members joining the Commission, and the new YP-Com Board Members were officially announced: welcoming Matt Prümm (Co-Chair), Lisa-Maria Putz (Vice-Chair Europe-Africa), Antonio Gomez (Alternate Vice-Chair Europe-Africa), Rodney Hancock (Vice-Chair Asia-Pacific), Jack Lee Vun Zac and Hyun Dong Kim (Alternate Vice-Chairs Asia-Pacific) to the Commission in their new roles. We also had the opportunity to hear more about the Permanent Task Group for Climate Change, with Ingrid Lambert and Stef Boersen as new members of this Commission. All these new faces correspond to a farewell for our outgoing board members: Andy Thomas, Daan Jumelet and Tom Shand. A short video with some great memories was shared, and we hope to be able to thank Andy, Daan and Tom in person at some point in the future! Luckily, a goodbye from the YP-Com is not very often a final goodbye from PIANC – and we’re hoping to see them again soon! [Link to Farewell Video Andy, Daan & Tom](#)

- **4 November 2020, online, 34th YP-Com Meeting**: a third meeting was organised towards the end of the year, to catch up with fellow YP’s across the globe and stay in the know. Again, reaching over thirty attendees, the online meeting format seems to work well. An update was provided on the outlook for 2021, with many events still being postponed and the PIANC calendar still uncertain on many fronts. The BTV is postponed (to 2022 or 2023) and will be aligned with the PIANC calendar. During the meeting, we announced a new task group that we would like to set up for 2021, the International Virtual Events Task Group (IVETG), which was received with enthusiasm – various delegates volunteered to participate in this Task Group, which will focus on the coordination and organisation of virtual events for YP’s in 2021. A brainstorm with the delegates resulted in a clear demand for networking, webinars with technical content on port design and environmental topics and social interaction.
9.4 Activities/Events

Despite the pandemic, there were still some great PIANC events throughout the year. The section below provides an overview of the events of 2020, by region. It is noted that some events are presented in the National Section reports.

9.4.1 Americas

9.4.1.1 Argentina

Argentina’s Virtual Session ‘Ports Operations while COVID-19’
On 5 June 2020, professionals of the port community were able to participate in the PIANC Webinar organised by the Young Professionals in Argentina. The topic dealt with port operations during the pandemic. There were two speakers, Capt. Ferreyra, operations manager from the port of Buenos Aires, and Eng. Carnevali, operations manager from the port of Bahia Blanca. Both commented the taken actions of the port to control the spread of the pandemic and some cases seen in the past months. The event had a great attendance, with 75 participants from Argentina and other Latin American countries.

XI Argentine Congress of Ports Engineering
On 7-9 September 2020, PIANC Argentina and the Argentine Association of Ports Engineering (AADIP) hosted the ‘XI Argentine Congress of Ports Engineering’. It was the first time this event was held in an online format. The great attendance showed that the effort was well worthwhile, with 487 participants from across Latin America, USA, and Europe.

The congress brought together outstanding professionals from the region, and it was divided in blocks: Port Planning, Port Infrastructure, Waterways, Aids to navigation, Dredging, and Port Environment. One of the highlights were the presentations from the different PIANC Technical Commissions, and from the Young Professional in Argentina. Moreover, PIANC’s International president, Francisco Esteban Lefler, presented ‘PIANC The World Association for Waterborne Transport Infrastructure’.

Bilateral Meeting: Engineering Bioceanic Corridor
On 20 October 2020, professionals of the port community were able to participate in the online event organised by the Engineering Faculty of University of Buenos Aires, the Graduate School of Port Engineering, the Civil Works Department of the University of Santiago de Chile, and the participation of the Chilean Association of Engineering, Ports and Coasts.

The seminar aimed at facilitating the exchange of professional and academic experiences between the two countries in topics related ports, waterways, and maritime engineering. There were four speakers, Sebastian García and Pablo Arecco as experts from Argentina, together with Carlos Reiher and Carlos Rodríguez as experts from Chile. The meeting resulted in fruitful discussions about risks associated to multiple causes of failure in port infrastructure, and the share of knowledge in port planning strategies.
9.4.1.2  United States

Webinar De Paepe-Willems Award Winners
PIANC USA YP-Com hosted a webinar featuring two of the 2020 De Paepe-Willems Award winners in December.

The webinar featured Benjamin Popovich and Adrian Pearson, the 1st and 3rd place winners of the 2020 De Paepe-Willems Award.

9.4.2  Europe-Africa

9.4.2.1  Belgium

YP Belgium New Year’s Walk – 30 January 2020 – Aalst, Belgium
Prior to the YP-Com Meeting in Brussels, we had the opportunity to join YP-Com Belgium on their annual New Year’s Walk. On 30 January, PIANC YP-Com Belgium organised a culinary New Year Walk in Aalst. A guide took us through the city, entertaining us with stories about the historic centre of the beautiful city of Aalst – famous for their carnival celebrations. We walked around and stopped at three different venues, enjoying Belgian cuisine for starters, a main course and dessert. Thanks to the Belgian YP’s for a great networking and social event!

![Figure 1: YP-Com Belgium New Year's Walk in Aalst](image)

9.4.2.2  Spain

The Spanish National Section, in collaboration with its Young Professionals, organised a series of webinars in 2020:

1. ‘Level III Methods: An Easy Explanation for a Complicated Problem’, 7 May 2020. Speaker: Mr Gabriel Chamorro Sosa, Civil Engineer, Polytechnic University of Madrid and Master’s in Advanced Design in Mechanical Engineering from the University of Seville.
3. ‘Level II Methods. It’s Time to Lose Fear’, 21 May 2020. Speaker: Mr Gabriel Chamorro Sosa, Civil Engineer, Polytechnic University of Madrid and Master’s in Advanced Design in Mechanical Engineering from the University of Seville.
6. ‘Management of the Public Domain and the Port Concessions: Main Elements to be Considered’, 5 November 2020, organised by the Port Management Committee. During the webinar, several speakers presented their different points of view, according to their individual roles in the process (Public Administrations, Port Authorities, Private Companies, etc.). The main topics were focused
on the relationship between concessions and port operations, legal framework, general terms for
new concessions and maintenance operations using BIM methodology.
7. ‘Steel Solutions for Port Developments and Coastal Protection. Adaptation to Climate Change’, 10
November 2020. Speaker: Mr Joao Martins, Civil Engineer, ArcelorMittal.
8. ‘Steel Solutions for Port Developments and Coastal Protection’, 25 November 2020. Speakers:
‘Pipe Foundation Solutions for Jetties and Dolphins: ArcelorMittal Projects, the Netherlands’ – Mr
P. Mulders/Mr R. Bijlard. ‘Anchorage Solutions for Quay Walls: ASDO, Germany’ – Mr R.
Roerermann/Dr. C. Jacobs. ‘New Approaches for Seismic Sheet Pile Design for Port Structures’
– Mr Amine El Kasimi, ArcelorMittal.

9.4.2.3 United Kingdom

Maritime Mutiny Webinar

On 20 May 2020, PIANC UK hosted its first online seminar, organised by the PIANC UK YP committee and titled
‘Maritime Mutiny’. The event sought to bring together forward-thinking group of industry professionals outlining
how our industry plays a part in the world of tomorrow. Originally due to be hosted in parallel with the 2020 PIANC
AGA, the UK YP-Committee proactively pushed for this event to be rescheduled into an online format.

The seminar was a great success and attracted over 100 attendees, including people in South America,
the USA, Hong Kong and across Europe. The event presented three exceptional speakers presenting
a broad range of cutting edge thinking in our industry.

Andrew Rawson, a Doctoral Researcher in Electronics and Computer Science at University of
Southampton and Principal Associate at Nash Maritime presented 'Intelligent Big Data Analytics and
the Future of Maritime Safety'. Francisco Sarrias, Managing Partner at Marina Systems Ibérica,
presented 'From Bitcoin to Blockchain. Use Cases in the Ports Sector'. Francisco J. Quesada,
Engineering Area Lead & Marine Works Design Manager for Ferrovial and Thames Tideway Tunnel
Central, presented 'Lessons from Thames Tideway Tunnel – BIM Approach for the Coordination of
Complex Interactions between Temporary and Permanent Works Designs'.

9.4.3 Asia-Pacific

9.4.3.1 Myanmar

FLOW TOGETHER Towards PIANC

The event, named ‘Flow Together’, was initiated as First Time in 2019 by Myanmar Local Port Design and Consultancy
company – Think Maritime Co., Ltd. The main intention is to
gather Myanmar Maritime University (MMU) graduated
working professionals from Port and Harbour, and River and
Coastal major. The theme is to share knowledge and
opportunities among young professionals. One of the agendas
is to promote PIANC activities and benefits of using PIANC as
design basis in water logistics infrastructures.

Regardless of the COVID-19 pandemic, the tradition of this event continued on 28 October 2020 with
Technical Knowledge Sharing sessions and a stimulating Live Quiz session with the help of Zoom
Conference facilities.

Mr Aung Phyo Kyaw, Founder of Think Maritime and YP-Com member, kicked off the event by sharing
the status and whereabouts of fellow engineers graduated from MMU. Then, the Technical Sharing
Sessions were followed up. In addition to Mr Aung Phyo Kyaw, two more speakers, Dr. Aung Aung Soe
and Mr Joost Lansen, contributed their expertise and experiences.
Mr Aung Phyo Kyaw shared the knowledge about Port Planning as a ‘Teamwork’ led by a Port Master Planner rather than individual act. Important steps in port planning were briefly introduced. He also explained about types of port planning such as rolling masterplan, traditional planning vs newly developed ‘adaptive port planning’. Existing port plans in Myanmar were then compared with those planning types. He recommended some selected PIANC reports related to Port Planning. The session ended with an interesting poll about port planning in Myanmar. The presentation was prepared based on the well-known book ‘Ports and Terminals’ by Professor Han Ligteringen of TU Delft and mixed with Mr Aung’s local technical experience.

Dr. Aung Aung Soe is a MMU graduated Port and Harbour engineer working for Fukken Co., Ltd, Japanese based Soil Investigation and Geotechnical Consultant Company, as an engineering secretary. His presentation elaborates from the basic knowledge of soil to main geotechnical parameters of soft soil as the major port infrastructures in Myanmar locates in the area with such soil characteristics. Soil investigation techniques and strategies to deal with soft soils were shared based on several international recognised testing methods and Myanmar National Building Codes. Relationships between design confidence, reliability levels and investigation were also discussed.

Mr Joost Lansen (MSc) is a Port Planning and Coastal Engineering expert and Project Manager based in the Netherland based Engineering Consultant company, Royal HaskoningDHV, Vietnam Advisory Group. He was a part time lecturer at Delft University of Technology for Ports and Waterways. His session emphasised on the Approach Channel designs in Ports and Rivers based on PIANC guidelines, Harbour Approach Channels Design Guidelines 121-2014 and Design Guidelines for Inland Waterway Dimensions 141-2019. The different considerations of channel designs between seaports and inland waterways were presented. Mr Lansen also shared his local experience in inland waterway designs for Myanmar’s major river, the Irrawaddy.

The event completed with Live Quiz testing the acquired knowledge of the audience during the above three sessions. More than 100 participants enjoyed the online event including working professionals, lecturers from MMU and students. Think Maritime aims to organise ‘Flow Together’ as an annual event promoting PIANC even further in Myanmar because the guidelines are believed as a decent foundation for Myanmar’s waterway infrastructures in the near future.
10 REPORT OF THE PROMOTION COMMISSION (PROCOM) 2020

10.1 And the World Stood Still

An unprecedented situation surprised the world at the beginning of 2020, not only facing a pandemic but a worldwide lockdown affecting so many angles of our business and private life.

One of the many benefits of being a PIANC member is the access to and networking with a community of like-minded individuals scattered around the globe. We, however, all had to experience that seeing each other on screen can be a new normal and that even conferences and exhibitions were able to move online.

Facing a situation where personal contact is completely out of reach has been a challenge for all of us and ProCom did its best to support all PIANC bodies to successfully navigate through an exceptional year.

Despite all the many virtual initiatives, we all wish for a simple handshake, a hug from an old friend and an exhibition hall filled with people. This time will come, and until then we continue with our heads held high, having hope in the future.

10.2 Our Crew

The ProCom team has changed throughout 2020:

- Mariela Ganchovska joined us from the new Qualifying Member Bulgaria
- Juan Carlos Gómez López represents the National Section of Colombia
- The US Section proposed a new ProCom Member: Kayla Waltemire took over from Rachel Grandpre
- Hiroshi Hayashida, Honorary Vice-President, represents PIANC Japan
- Paula Palmans is the new representative of PIANC Belgium
- Onno Musch from Norway left the Promotion Commission

In total, we worked with a team of twenty-two members in 2020, including three members from PIANC’s Platinum Partners, which allows a close co-operation with our Platinum Partners, 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
- Francisco Esteban Lefler – Spain – Member President of PIANC
- 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
- Sahar Mokhtari – Iran – Member/YP
- René Kolman – The Netherlands – Member and Representative of EnviCom
- Meileng Lim – Singapore – Member and Representative of Trelleborg
- Christian De Meyer – UK – Member
- Kayla Waltemire – USA – Member/YP
- Hiroshi Hayashida – Japan – Member
- Paula Palmans – Belgium – Member
10.3 Meetings

ProCom held only one physical meeting during 2020: the yearly kick-off meeting during the meeting week in Brussels, where the ProCom team used a full day to start the year, not yet knowing how special it would going to be.

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Focus</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020-1:</td>
<td>Meeting the Technical Commission and YP Chairs to discuss how ProCom</td>
<td>Fruitful meeting with lots of new ideas.</td>
</tr>
<tr>
<td>January –</td>
<td>can support them and to define what ProCom needs from the</td>
<td>Important way to personally exchange</td>
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<tr>
<td>Brussels</td>
<td>Commissions and YPs to enhance</td>
<td>thoughts and to find out how to support each</td>
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<td></td>
<td>PIANC’s promotional activities.</td>
<td>other.</td>
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<td>2020-2:</td>
<td>ProCom Chair presents the ranking from</td>
<td>First time in ProCom history, subgroups with</td>
</tr>
<tr>
<td>April – First</td>
<td>members on most important tasks and</td>
<td>dedicated subgroup leaders are established.</td>
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<tr>
<td>online meeting</td>
<td>priorities.</td>
<td></td>
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<tr>
<td></td>
<td>• Further process is discussed.</td>
<td></td>
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<tr>
<td>2020-3:</td>
<td>Final subgroup structure is agreed upon.</td>
<td>Social Media Planning is agreed.</td>
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<tr>
<td>July – Online</td>
<td>• Subgroup members present their strategies.</td>
<td>Development of a strategy how to reach</td>
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<td></td>
<td>• Social Media Planning is agreed.</td>
<td>stakeholders outside the PIANC network.</td>
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<td></td>
<td>• New process of communication with WGs should be established.</td>
<td></td>
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<tr>
<td>2020-4:</td>
<td>Focus on use of PIANC logo for NS/QM and</td>
<td>Social Media Calendar is established.</td>
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<tr>
<td>September –</td>
<td>update on country flags.</td>
<td>Guidelines for use of PIANC logo for NS/QM is</td>
</tr>
<tr>
<td>Online</td>
<td>• Team decides to have another meeting this</td>
<td>established and discussed.</td>
</tr>
<tr>
<td></td>
<td>year to closely follow up on progress of activities.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Update from Subgroups.</td>
<td></td>
</tr>
<tr>
<td>2020-5:</td>
<td>Information on founding of 'Task Group Membership'</td>
<td>Communication template for WGs and</td>
</tr>
<tr>
<td>November –</td>
<td>• Update from subgroups.</td>
<td>further process is developed and discussed.</td>
</tr>
<tr>
<td>Online</td>
<td>• Research on webinar platforms is ongoing.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Certificate for attending PIANC seminars is updated.</td>
<td></td>
</tr>
</tbody>
</table>

L-R (starting at the top): Sabine Van de Velde, Hartmut Brühl, René Kolman, Francisco Esteban Lefler, Anna-Lena Pahl, Hubert Fiers, Leen Weltens, Geert Van Cappellen and Laurent Luchez
10.4 Achievements

- Successful establishment of **subgroups** within **ProCom** to work more efficiently and to closer involve the team members to cope with all the many tasks of ProCom.

- ‘**Guideline for the use of the PIANC name and logo**’ to guide our members and stakeholders through the right ethics, but also to fight against the misuse by non-members – successfully implemented in April 2020.

- **New country logos for the use from National Sections and Qualifying Members** has been developed and released in December 2020.

- ProCom has started to develop a **new communication process between the Working Groups, Technical Commissions and HQ** to foster the exchange of information. Frequent updates from Working Groups on their meetings and progresses is an important pillar of PIANC’s communication. The aim is to find a Person of Contact within each Working Group to have a dedicated person to keep up the flow of information.

- **A communication template for WGs** is about to be finalised – it describes the actions a WG should undertake to keep HQ informed about its activities and what other recommended but optional activities ProCom suggests to further enhance the visibility of a Working Group and its extraordinary work that is done for the maritime industry and community.
• 2020 clearly showed how meetings and events had to be shifted from face-to-face events to online platforms. ProCom has started a **comparative study of webinar platforms** to give guidance to the PIANC managerial bodies to take a decision on how to proceed with an **online event structure** for the PIANC community.

• The PIANC National Sections are an important link and the local contact to the PIANC community. Active National Sections organising conferences and events or initiating networking sessions are a great leap for satisfied members and ProCom is further working on supporting National Sections and secretaries with a **comprehensive guide** and further activities.

Summarising, ProCom successfully completed its first whole year as a full commission. The team members all showed great initiative and engagement for the Commission. As it has been reported during a recent ExCom meeting, the difference is already visible – what a great praise for our work throughout an extraordinary year.

### 10.5 Online Figures

The Social Media Platform Loomly was tested and set up in 2020 for an easier management of the social media channels. It runs successfully and helps HQ with their social media activities. The Social Media Plan is as well an effective tool to actively inform the PIANC community.

- **2699 followers on LinkedIn**
- **672 followers on Twitter**
- **899 followers on Facebook**

Please remember – a list with social media accounts of our different Commissions and National Sections was created and shared within our community. It can be found on the PIANC SharePoint environment.

### 10.6 Where Does 2021 Lead Us?

The ongoing challenges resulting from COVID-19 will still control the worldwide situation throughout 2021. Keeping in touch with our international PIANC community will need our full energy and concentration to find creative and attractive ways.

ProCom is well prepared to tackle this challenge with our established new team structure, lots of team spirit fostered by the very positive feedback for our initiatives and many more ideas in the pipeline.

We confidentially look ahead, with a good portion of excitement and curiosity.

**Anna-Lena Pahl**

*Chairperson of ProCom*