COMMISSIONS
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1 Report of the Financial Commission (FinCom) 2018

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 Colombia
- Geert Van Cappellen PIANC HQ

1.2 Meetings

The Commission met twice over the past year 2018, with its first meeting on 31 January 2018, held in Brussels (PIANC HQ) in preparation for the February 2018 ExCom and Council meetings. The second meeting was held in Seville (Spain) on 12 October 2018 alongside the MedDays Conference.

The Brussels meeting essentially covered the portfolio and Article 27 of the Rules and Regulations. During 2017, the Secretary-General had held several conversations with banking institutions and semi-bank institutions and presented his findings to the FinCom members via a PowerPoint presentation. On this basis, he and the FinCom members formulated the roadmap to be followed in the next few months. These conversations with the banks were not yet finalised at that time and have been redirected based on the discussion among the FinCom members during the Brussels meeting.

In addition to the above, the financial and budgetary situation of PIANC was reviewed and discussed, based on the monthly results for 2017 and the official 'Balance Sheet 2017' prepared by the bookkeeper for the tax administration. Proposals were worked out for the 2018 budget and the 2019-2022 business plan for submission to ExCom and the Council.
Finally, a review of the budget plan for the Panama Congress was undertaken, the budgetary aspects of the new website and membership were examined.

In preparation for the autumn 2018 ExCom and Council meetings, FinCom held its second meeting of 2018 on 12 October 2018 in Seville, Spain. The agenda consisted of a very varied and extensive programme.

Firstly, the provisional financial results of the Congress in Panama were reviewed. Based on the awaited report of the LOC Panama 2018, FinCom hopes to adjust the financial aspects of the templates for the organisation of future Congresses and AGA’s.

The next item concerned South Africa's proposal to organise the PIANC World Congress in 2022 in Cape Town. After a long and intensive discussion, different options and alternatives, it was decided by FinCom to propose to the ExCom and Council to accept the bid of South Africa.

Also, the relocation of PIANC-COPEDEC 2020 from Iran to the Philippines was an item, and what measures should be taken in this regard. Another discussion between the FinCom group took place about the future of the ‘Navigating in a Changing Climate’ project within EnviCom.

As usual, an intensive review was conducted about our portfolio, and how to ensure that the portfolio yield is up to the maximum. This portfolio is currently decreasing in value, partly due to the poor global economic situation, and partly because of the rather defensive structure of our portfolio and the bank.

The budgetary forecast for 2018 and the Business Plan for 2019-2021 were approved with only a limited number of corrections.

FinCom hoped at that moment that the new PIANC website would soon come fully online, partly thanks to the efforts of external support and the important contribution of PIANC HQ itself.

A debate was also held on the ‘subvention’ costs with the intention of ensuring that they can be treated uniformly for all National Sections and also for Individual Members belonging to countries where there is no National Section.

Finally, PIANC HQ was given permission to begin the digitisation of all the older paper documents of PIANC with a preference to start with the oldest and/or more valuable documents. An annual spend of up to €15,000 is foreseen.
FinCom believes that as PIANC we must include in our marketing plans the best way of selling the Working Group reports and the recruitment of members. Each National Section should include this in its national strategic vision.

### Table 1: Summary of the financial results 2018

<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>€ 139,357</td>
<td>€ 110,000</td>
<td>€ 29,357</td>
</tr>
<tr>
<td>Contributions (Subs.)</td>
<td>€ 337,861</td>
<td>€ 325,000</td>
<td>€ 12,861</td>
</tr>
<tr>
<td>Subventions</td>
<td>€ 167,200</td>
<td>€ 169,000</td>
<td>-€ 1,800</td>
</tr>
<tr>
<td>Platinum Partners</td>
<td>€ 42,500</td>
<td>€ 37,500</td>
<td>€ 5,000</td>
</tr>
<tr>
<td>Sales</td>
<td>€ 14,532</td>
<td>€ 20,000</td>
<td>-€ 5,468</td>
</tr>
<tr>
<td>Financial income</td>
<td>€ 15,760</td>
<td>€ 24,000</td>
<td>-€ 8,240</td>
</tr>
<tr>
<td>Other income</td>
<td>€ 9,347</td>
<td>€ 25,000</td>
<td>-€ 15,653</td>
</tr>
<tr>
<td>Total income</td>
<td>€ 726,557</td>
<td>€ 710,500</td>
<td>€ 16,057</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>€ 44,379</td>
<td>€ 70,000</td>
<td>-€ 25,621</td>
</tr>
<tr>
<td>Commissions</td>
<td>€ 27,432</td>
<td>€ 26,000</td>
<td>€ 1,432</td>
</tr>
<tr>
<td>Yearbook print and mail</td>
<td>€ 00,000</td>
<td>€ 29,000</td>
<td>-€ 29,000</td>
</tr>
<tr>
<td>Headquarters</td>
<td>€ 457,393</td>
<td>€ 483,000</td>
<td>-€ 25,607</td>
</tr>
<tr>
<td>Financial Charges, Taxes, etc.</td>
<td>€ 107,246</td>
<td>€ 57,000</td>
<td>€ 50,246</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>€ 636,450</td>
<td>€ 665,000</td>
<td>-€ 28,550</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surplus (€)</th>
<th>Actual</th>
<th>Budget</th>
<th>Variance = Actual - Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>€ 90,107</td>
<td>€ 45,500</td>
<td>€ 44,607</td>
<td></td>
</tr>
</tbody>
</table>

The global financial affairs of PIANC have continued to do reasonably well, especially as a much higher operating surplus of € 90,107 was made in 2018 compared with only € 65,105.39 in 2017. This was due mainly to the accuracy with which the subventions and contributions were estimated in the 2018 budget and of course the very positive results of the Panama Congress.


Sales of Working Group reports produced an income of only in total € 14,532, unfortunately under the original budget by € 5,468, a relapse regarded the sales for 2015 of € 20,737 and 2016 of € 29,857, and even 2017 (€ 17,298, including Knovel royalties at that time).

This year, 2018, there are no costs for the publication and mailing of the Yearbook, as the Yearbook was only published in a digital version. But this results of course partly in less profit due to the reduction in sponsorship and advertising income. Since printing and mailing costs would not decrease, it is best to adjust the budget estimation in these items in the coming years, as well as a worldwide action concerning advertising and sponsorship support, so that the Yearbook can continue to be published in digital version at a general profit for the Association.

The value of the PIANC portfolio was € 792,044.85 at the end of 2018, which is a clear decrease over the previous year of € 43,516.82. Moreover, the yield earned per annum on the portfolio decreased to -5.21 % compared to a previous interest rate of +2.38 % in 2017 and +0.94 % in 2016. Much of this decrease can probably be attributed to a bad general global economic climate in Europe and worldwide.

The number of international events that PIANC is organising or hosting is increasing with the Congress, PIANC-COPEDEC, PIANC-SMART Rivers, COP 21, Navigating a Changing Climate, etc. Even with the organisation experience gained over the years, this ‘business’ remains an ever-increasing workload on the headquarters team and is reducing its capacity to undertake other duties and functions. FinCom
requests therefore that all Local Organising Committees endeavour to undertake as much as the preparatory work as possible to reduce the headquarters input.

So, to summarise the financial items, a large surplus of €90,107 was generated to be added to the reserves of PIANC! This result may seem a bit too optimistic, because the income of a World Congress 2018 can be added only once in four years.

The membership level has increased in 2018 by 34 Individual Members, an increase of 2.1% on 2017. The increase in Corporate Members too by 29 organisations, or 6.5% in percentage terms, which is hopeful for the future. We note also a rise with only one member in Student, Life and Honorary Members, but those have of course a minor impact on the PIANC financial income.

<table>
<thead>
<tr>
<th>Date</th>
<th>31 Dec 2018</th>
<th>31 Dec 2017</th>
<th>Evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Members</td>
<td>1,627</td>
<td>1,593</td>
<td>34</td>
</tr>
<tr>
<td>Corporate Members</td>
<td>475</td>
<td>446</td>
<td>29</td>
</tr>
<tr>
<td>Student. Life. Honorary</td>
<td>166</td>
<td>165</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,268</strong></td>
<td><strong>2,204</strong></td>
<td><strong>64</strong></td>
</tr>
</tbody>
</table>

*Table 2: Development of the PIANC Membership 2017-2018*

The subscription rate and subvention rates have been held constant since 2011. FinCom believes that due to the impact of inflation, both sets of rates need to be increased at an appropriate time. FinCom will consider whether it is necessary to adjust the rates and then submit its proposals to ExCom and Council.

On the expenditure side, the major costs for the headquarters, including salaries, financial charges and taxes are decisive. Local Organising Committees must undertake as much as possible to reduce the headquarters’ input, so that the current limited staffing level can be maintained. The expenses for Navigating a Changing Climate and the website must be kept under very careful control.

In conclusion, subscriptions and subventions are decisive for the income of PIANC. A large attendance of participants at congresses and seminars is an expression of the importance of the Association. Our products are the working groups reports, which should be a reason to attract new members. Once they have joined the Association, it is up to the National Sections to keep their members 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 expenses and is a challenge that continues to be looked at in some detail by both FinCom and ExCom.

Yours sincerely,

Ian White  
Chairman of PIANC FinCom

Herbert Smitz  
Secretary of PIANC FinCom
2 Report of the Maritime Commission (MarCom) 2018

2.1 General

2.1.1 Programme

MarCom has a big number of Working Groups developing specialised reports on a broad range of maritime items that represent an added value for PIANC associates.

2018 has been a year with just one WG-report publication for MarCom: WG 161 on ‘Interaction Between Offshore Wind Farms and Maritime Navigation’. This interesting work on the required space for ships both to manoeuvre and also between shipping routes and offshore wind farm areas has achieved its goal of elaborating a complete guide and recommendations for improving projects related to this new green energy farms, guaranteeing safe navigation.

It is also important to remark this report as the first of a series of WG-reports on renewables and energy efficiency related to marine works, projects and ports in general.

In addition to this publication, there are three more WG-reports that have been successfully completed and presented to MarCom (WG 159, WG 184 and WG 185). These reports have been published in the first few months of 2019, after a great job. Two of them were developed in full agreement with the WG theoretical schedule.

WG 145 on ‘Berthing Velocities’ has finished its work and is integrating final comments from MarCom. Therefore, its publication is expected soon.

The MarCom community is working hard. There are at least five more Working Groups that are working really fast, so that the expectation is to have a big number of publications by the end of next year.

As part of the continuous efforts of MarCom on improving Working Groups and reports, an important line in the commission strategy is to provide PIANC with an updated catalogue of the status of the reports on the website. The systematic review of the Working Group list is being performed classifying them depending on the needing or not of being updated or if they have become obsolete. During 2018, this list has been reviewed and updated.

Based on the previous analysis, MarCom proposes new Working Groups with the commitment of updating an older one or as an extension in order to ensure full and up-to-date coverage of main fields. Moreover, new ideas come from the daily experience of the MarCom members, searching for new topics and fields of interest for PIANC stakeholders.

During 2018, MarCom has developed and presented the MarCom Action Plan 2019-2023 to the ExCom, developed according to the approved PIANC Strategic Plan 2019-2023 and Marketing Plan.

Five Terms of Reference were submitted to the ExCom and approved in 2018.

Taking into consideration that ship dimensions are key for many ongoing and approved Working Groups, MarCom is trying to update and unify tables.

2.1.2 Meetings

In 2018, MarCom held two Commission meetings:

- Brussels (Belgium), 30-31 January 2018, where the MarCom Action Plan 2019-2023 was preliminarily presented and discussed. Also, a total of 6 new ToR were reviewed.
- Seville (Spain), 16 October 2018, hosted by the Spanish National Section and the Port Authority of Seville. The meeting coincided with the welcoming events for the 4th edition of the PIANC Mediterranean Days and the Spanish National Section Congress.
2.1.3 MarCom Membership

In 2018, there have been a few changes in the MarCom membership:

- Mr Simo Kerkelä was welcomed as new representative of the Finnish Section.
- Mr Patrick Verhoeven will act as Corresponding Member for IAPH, while a decision is taken regarding the replacement for Mr Fer Van de Laar.
- The Philippine membership also changed, the following new members were designated:
  - Member: Mr Constante T. Fariña Jr.
  - Alternate: Mr Carlito M. Castillo
  - YP-Member: Mr Christopher Ornum
- Mr Olivier Piet, the previous member from the French Section will remain in MarCom as Alternate Member, welcoming Mr Pierre Aristaghes as the new French MarCom member.
- After 23 years successfully representing Belgium in MarCom, Mr Luc Van Damme finished his work for the Commission. Mr Koen Van Doorslaer was proposed as the new Belgian Member. Additionally, the YP-member from Belgium, Mrs Hadewych Verhaeghe, will also leave MarCom, waiting for the Belgian Section to appoint a new YP-Member.

MarCom appreciates the work done by the members who left the Commission, as they are key to MarCom’s success, and the Commission welcomes the new members.

In December 2018, there were 34 MarCom members, amongst them, one is the Chairman, eight are Alternate Members, six are Young Professionals and 1 of them is YP-Com Observer. Eighteen National Sections are represented in MarCom:

- Francisco Esteban Lefler (Spain) – Chairman
- Noelia González Patiño (Spain) – Secretary
- H.F. Burcharth (Denmark)
- Arjan Van der Weck (the Netherlands)
- Peter D. Hunter (UK)
- Andrea Ferrante (Italy)
- Tore Lundestad (Norway)
- Koen Van Doorslaer (Belgium)
- Yoshiaki Higuchi (Japan)
- Pierre Aristaghes (France)
- Ron E. Heffron (USA)
- Rafael Escuti (Spain)
- Mattias Sandell (Sweden)
- Peter Fountain (Australia)
- Mohammad Reza Allahyar (Iran)
- Iksoon Cho (South Korea)
- Héctor Escobar (Colombia)
- Carlos Gines (Argentina)
- Constanza T. Fariñas (the Philippines)
- Simo Kerkelä (Finland)
- Patrick Verhoeven (IAPH)
- Richard Styles (USA) – Alternate Member
- Scott William Keane (Australia) – Alternate Member
- Juan Francisco Herrera (Colombia) – Alternate Member
- Marcelo Peyregne (Argentina) – Alternate Member
- Carlito M. Castillo (the Philippines) – Alternate Member
- Babak Banijamali (Iran) – Alternate Member
- Olivier Piet (France) – Alternate Member
- Kim Andersson-Berlin (Finland) – Young Professional
- Michael Grace (UK) – Young Professional
2.2 Working Group Presentations

2.2.1 January Meeting

Mr Jean Charles Cornillou presented an excellent final draft report to MarCom that addressed the topic of ‘Interaction between Offshore Wind Farms and Maritime Navigation’ in a deep and clear way (WG 161). IALA cooperated in the report.

2.2.2 October Meeting

Mr Richard Morgan and Mr José Manuel García showed the results from WG 184’s work on ‘Design Principles for Dry Bulk Marine Terminals’, including a good selection of case of studies.

An excellent work on ‘Renewables and Energy Efficiency for Maritime Ports’ was the scope of WG 159. A summary of these energy considerations was presented by Mr Andrea Ferrante and Mr Juan Manuel Fernández.

WG 185 on ‘Masterplans for the Development of Greenfield Ports’ was about to finish its work and presented its draft report to MarCom. The conclusions were shown by Mr Peter Hunter, on behalf of Chairman Ian Cruickshank.

2.3 Publications

In 2018, one MarCom Working Group Report was published by PIANC.

  (Chairman: Mr Jean Charles Cornillou)

This report provides an approach, guidelines and recommendations to assess the required manoeuvring space for ships in the vicinity of offshore wind farms (OWF) and the minimum recommended distance between shipping lanes and sea areas for OWF in order to ensure a minimal risk to navigation. The report specifically addresses issues with OWF, but these are a subset of Offshore
Renewable Energy Installations (OREI) and some of the recommendations will have a wider application to other OREI. The relevance of this report is the fact that it opens new fields for MarCom than those related to new energy sources and management.

2.3.1 Progress of MarCom Working Groups

This section summarises the status of ongoing MarCom Working Groups.

- **WG 145** – ‘Berthing Velocities and Fender Design’
  This report is being reviewed and completed with the aim of having it published in 2019.

- **WG 164** – ‘Upgrade of Port Terminals by Increasing Dredged Depth’
  The draft report is expected to be ready for September 2019.

- **WG 167** – ‘Design of Terminals for Ro-Ro and Ro-Pax Vessels’
  The draft report is expected to be ready for September 2019.

- **WG 171** – ‘Ship Handling Simulation Dedicated to Channel and Harbour Design’
  The draft report is expected to be ready for September 2019.

- **WG 186** – ‘Mooring of Large Ships at Quay Walls’
  The draft report is expected to be ready for September 2019.

- **WG 187** – ‘Protection of Undersea Pipelines and Cables in Navigable Areas’
  Progressing, expected draft report by the end of 2019.

- **WG 194** – ‘A Framework for Early Contractor Involvement in Infrastructure Projects’
  The presentation to MarCom is expected in September 2020.

- **WG 199** – ‘Health Monitoring for Port and Waterway Structures’
  Joined InCom-MarCom WG. The kick-off meeting was held in November 2017.

- **WG 200** – ‘Recommendations for the Design and Assessment of SPM or MPM Facilities’
  The presentation to MarCom is expected in January 2020.

- **WG 205** – ‘Design and Construction of Breakwaters in Soft Seabeds’
  The kick-off meeting was expected for Q1 2019.

- **WG 208** – ‘Planning for Automation of Container Terminals’
  The kick-off meeting was scheduled for January 2019 during the PIANC meeting week.

- **WG 211** – ‘Guidelines for the Design of Fender Systems’
  The kick-off meeting was scheduled for March 2019.

- **WG 212** – ‘Criteria for Acceptable Movements of Ships at Berths’
  The kick-off meeting was expected for Q1 2019.

- **WG 213** – ‘Design Guidelines for Marine Multipurpose Terminals’
  The kick-off meeting was expected for Q1 2019.

- **WG 215** – ‘Accidental Impacts from Ships on Fixed Structures’
  The WG is in formation.
2.3.2 Approved Terms of Reference

The following Terms of Reference were approved in 2018:

- WG 208 – ‘Planning for Automation of Container Terminals’
- WG 211 – ‘Guidelines for the Design of Fender Systems’
- WG 212 – ‘Criteria for Acceptable Movements of Ships at Berths’
- WG 213 – ‘Design Guidelines for Marine Multipurpose Terminals’
- WG 215 – ‘Accidental Impacts from Ships on Fixed Structures’ – Joint InCom-MarCom WG.

2.3.3 Terms of Reference in Discussion Expected to be Submitted to ExCom in 2019

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

- Post-extreme event inspection
- Construction risk in marine works
- Circular economy: re-use of materials for port infrastructure
- Specifications of materials for breakwaters
- Open sea terminals

2.4 Cooperation with Other Commissions

2.4.1 MarCom Has Corresponding Members in the Following Joint or Other Commission’s Working Groups:

- EnviCom ‘Working with Nature’
- EnviCom Permanent Task Group on Climate Change

MarCom also participated in the Juries of the De Paepe-Willems and Working with Nature Awards.

2.5 WGs Guidance and Governance

MarCom continues to review published WG-reports in order to identify obsolete or superseded reports or reports that need updates. This list was shared with ExCom during the first meeting of 2019.

2.6 Pictures

MarCom during its October meeting
Cocktail at Reales Alcázares of Sevilla

Francisco Esteban Lefler
Chairman of PIANC MarCom

Noelia González Patiño
Secretary of PIANC MarCom

The year 2018 has been very successful for the Inland Navigation Commission (InCom): four Working Group reports were published, and three meetings were held, all contributing to the promotion of inland navigation.

Special attention was given to the work of the Working Groups, as well as the promotion of the finalised reports. Two big events took place: the 34th PIANC World Congress in Panama City (7-11 May 2018), and the PIANC Med Days in Seville (17-19 October 2018), where InCom members and WG-members participated in different activities (organisation, workshops and paper presentations).

During the 34th PIANC World Congress, several presentations of PIANC WG’s were organised and a few full sessions were devoted to the achievements of the InCom WG’s.

In addition, the invitations for five new WGs were launched:

- ‘Innovations in Shiplift Navigation Concepts’
- ‘Smart Shipping on Inland Waterways’
- ‘Best Practices in Planning Inland Waterways Multimodal Platforms’
- ‘Permanent WG on RIS’

3.1 Commission Membership

The InCom membership has been stable in 2018, with several changes on the national level:

- The Canadian Section introduced a new member, Mr Luc Boisclair, who will become principal member for Canada
- The Chinese Section introduced two new members, Mr Yun Li as Alternate Member, and Mr Gensheng Zhao as Young Professional
- The Japanese Section introduced Mr Masaru Suzuki, who replaces Mr Takahiro Sugano

At the end of 2018, the InCom members were:

- Philippe Rigo (Belgium) – Chairman
- Jasna Muskatirovic (Serbia) – Secretary
- Leonel Temer (Argentina)
- Michael Fastenbauer (Austria)
- Jürgen Trögl (Austria)
- Jean-Michel Hiver (Belgium)
- Stefan Devocht (YP-Com, Belgium)
- Adalberto Tokarski (Brazil)
- José Renato Ribas Fialho (Brazil)
- Gernot Pauli (Central Rhine Commission (CCNR))
- Luc Boisclair (Canada)
- Jim Athanasiou (Canada)
- Wu Peng (China)
- Yun Li (China)
- Gensheng Zhao (China)
- Fabio Zapata (Colombia)
- Jorge Enrique Sáenz (Colombia)
- Tero Sikiö (Finland)
- Benoît Deleu (France)
- Fabrice Daly (France)
- Holger Schüttrumpf (Germany)
- Reza Safari (Iran)
- Masaru Suzuki (Japan)
- Choonghyo Lee (South Korea)
- Otto Koedijk (the Netherlands)
- Ljubisa Mihajlovic (Serbia)
• Ignacio Sanchidrián Vidal (Spain)
• Rodrigo García Orera (Spain)
• Jim Sterling (United Kingdom)
• Fran Littlewood (United Kingdom)
• José Sánchez (USA)
• Brian Tetreault (USA)
• Brian Ball (USA)
• Ton Nu Thi Thanh Yen (Vietnam)
• Akula Nidarshan (expert, India)

3.2 Meetings

The InCom Commission held three meetings in 2018:

• Meeting No. 79, held on 30-31 January 2018 at PIANC HQ in Brussels (Belgium)
• Meeting No. 80, held on 6 May 2018, during the 34th PIANC World Congress in Panama City (Panama)
• Meeting No. 81, held on 15-16 October 2018, during the PIANC Med Days in Seville (Spain)

The main subjects of meetings were:

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

3.3 Published Reports

In 2018, four InCom reports were published:

• WG 141 – ‘Design Guidelines for Inland Waterway Dimensions’
• WG 166 – ‘Inflatable Structures in Hydraulic Engineering’
• Interim Report 201 – ‘Development of a Proposal of Inland Waterway Classification for South America’
• TG 204 – ‘Awareness Paper on Cybersecurity in Inland Navigation’
3.4 Progress of Existing Working Groups

- **WG 125 – ‘RIS Guidelines’ (Update)**
  **Chairman: Cas Willems**

- **WG 128 – ‘Alternative Technical-Biological Bank Protection Methods for Inland Waterways’**
  **Chairman: Bernhard Söhneng**
  In 2018, the WG-members held two meetings, and they discussed, among other topics, ‘Best Practice Approach methodology for Assessing the Functionality’ and ‘The Design of Alternative Bank Protections Executed’. The WG is planning to organise a workshop during the PIANC-SMART Rivers 2019 Conference in Lyon (France).

- **WG 179 – ‘How to Deal with New Ships in the CEMT ’92 Classification – Towards a New CEMT (ITF) Classification’**
  **Chairman: Ivo ten Broeke**
  The draft version of the report has been submitted for revision by the InCom members, and it is expected that the report will be available for publication in 2019.
• WG 189 – ‘Fatigue of Hydraulic Steel Structures: Design, Analysis, Assessment, and Maintenance’
  Chairman: Dirk Jan Peters
  The WG is finalising the report and the submission of the first draft is expected for 2019.

• WG 190 – ‘Corrosion Protection of Lock Equipment’
  Chairperson: Rebekah Wilson
  The WG-Chair participated in the InCom meeting in Seville and informed the InCom members on the progress of this WG. The first draft of the report is planned for the summer of 2019.

• WG 191 – ‘Use of Composites on Hydraulic Structures’
  Chairman: Hota Ranga Rao
  The WG is making final edits of the report and the plan is that InCom starts the review of the report in 2019.

• WG 192 – ‘Automation of Locks and Bridges, Remote Operations, Self-Usage, Network Security’
  Chairman: Lieven Dejonckheere
  The WG presented the new version of brochure on WG 192 during the PIANC Congress in Panama City. In the meantime, InCom reviewed the draft version of the report, and the publication of the report is expected for 2019.

• WG 197 – ‘Small Hydropower Plant in Waterways’
  Chairman: Nicholas Crosby
  This WG, which started in 2017, had three meetings in 2018, looking into the best practice examples and possible environmental impacts. The WG-members presented their work through two papers at the PIANC Congress in Panama City.

• WG 198 – ‘Saltwater Intrusion Mitigations and Technologies for Inland Waterways’
  Chairman: Tom O’Mahoney
  This WG had its kick-off meeting in June 2017 and held its third meeting during the PIANC Congress in Panama City. The fourth meeting took place in October 2018 in Belgium. The WG-members already drafted most of the chapters.

• WG 199 – ‘Health Monitoring for Port and Waterway Structures’
  Chairman: Mathew Smith
  During 2018, the WG held two meetings, after the kick-off meeting in November 2017. The first draft of the report is planned for mid-2019.

• WG 203 – ‘Sustainable Inland Waterways – A Guide for Waterways Managers on Social and Environmental Impacts’
  Chairman: Andreas Dohms
  This WG held its kick-off meeting in February 2018, with the second meeting held in October 2018 in the USA. The WG-members defined the Table of Contents and started working on specific chapters.

  Chairman: John Clarkson
  The kick-off meeting for this WG was planned for January 2019, in Brussels.

• WG 207 – ‘Innovations in Shiplift Navigation Concepts’
  Chairman: Hu Yaan
  The kick-off meeting for this WG was held during the Med Days, in Seville, in October 2018, with experts from six countries.
• **WG 210 – ‘Smart Shipping on Inland Waterways’**  
  Chairpersons: Ann-Sofie Pauwelyn and Lea Kulters  
  The kick-off meeting for this WG was held on 29-30 January 2019, in Brussels.

• **WG 216 – ‘Best Practices in Planning Inland Waterways Multimodal Platforms’**  
  In November 2018, HQ sent out a call for members for this new WG. InCom would like to invite the National Sections to nominate their experts to participate in this WG.

• **Permanent WG 125 – River Information Services – RIS**  
  In October 2018, HQ sent a call for the update of the membership of the Permanent WG 125 – River Information Services – RIS. InCom would like to invite the National Sections to nominate their experts to participate in this WG.

3.5 **InCom Website**

The InCom website is permanently being updated. It is a very valuable source of relevant information to the users and the InCom community and a good tool to promote inland navigation. It consists of two parts, one public part and another part 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. You can also find the InCom members’ details. In the InCom members restricted section, the InCom members can share specific working documents. More information can be found at the website at [http://incomnews.org](http://incomnews.org).

3.6 **Conclusion**

The year 2018 was a year in which InCom participated in two events, and a number of InCom activities were devoted to these events: the 34th PIANC World Congress held in May 2018 in Panama City, and the PIANC Med Days, which took place in October 2018 in Seville.

The experts working on the WG-reports are doing a great job, with four reports published, and several close to be finalised. Once again, InCom would like to thank them all for their enthusiasm and devotion in their work to draft high-quality reports.
WG 207 kick-off meeting in Seville

InCom Members during the Seville meeting
3.7 'Lock Gates and other Closures in Hydraulic Projects' by Ryszard Daniel and Tim Paulus

Two active members of PIANC, Mr Tim Paulus of the United States Army Corps of Engineers (USACE), and Mr Ryszard Daniel (Rijkswaterstaat, the Netherlands) recently wrote a book that combines the European and American experiences in design, construction, operation, maintenance and managements of hydraulic gates. The book, 'Lock Gates and Other Closures in Hydraulic Projects', has just been published by Elsevier Butterworth and Heinemann and is already in the stores.

Chairman of InCom, Mr Philippe Rigo, wrote a text for the preface of the book, which you can find below. The book is the product of a fruitful cooperation between two PIANC members, which clearly shows the benefits of being part of the PIANC network!

Public authorities worldwide operate and maintain a large number of different types of hydraulic gates that are used in locks, dams, hydropower sites and recreation sites. Many of these gates have reached or will soon reach the end of their service life.

Both Europe and America share common concerns about the aging hydraulic infrastructure. It is, therefore, not surprising that many activities of PIANC reflect these concerns; and that the member countries of America and Europe are most active in this field.

PIANC was also the place where Tim Paulus (USACE) and Ryszard Daniel (Rijkswaterstaat, the Netherlands) got to know each other. This turned out to be a fruitful encounter. As Chairman of PIANC InCom, I could closely see Timothy and Ryszard at work in a number of international Working Groups. They were the most productive contributors, in whatever roles they were asked to fulfil. These roles included organising and chairing the Working Groups, investigating various issues, delivering project reviews and sections of final reports, or just hosting the meetings at inspiring project locations.

The desire for international collaboration in technology is not equally evident in all fields. Hydraulic structures are, however, the field where this desire is unquestionable. This has many reasons, some of which became evident in the recent decades. These are the environmental consequences of climatic changes that in the first instance affect the levels and behaviour of water. Hydraulic structures and gates in particular will play a crucial role in controlling these processes. This matter has been dealt with in diverse PIANC reports and its awareness is growing, but it is not yet sufficiently rooted in engineering practice. Therefore, I am pleased to see that the authors of this book gave environmental issues a place at the same level as, for example, structural analysis and construction issues.

As both authors are practicing engineers with long records of projects and studies, this book is focused on engineering practice rather than on science. However, the term 'engineering' here means more than the core design practices. Much attention is given to the phases that precede the actual design, such as systematic selection of gate types; and to the phases that follow the design, such as construction, operation and maintenance. In addition, basic principles of asset management and of project execution control have been introduced. The latter also includes handling accidents and calamities. The discussion is generously illustrated with drawings and photos, including the details from prominent recent projects, like the new Panama Canal lock gates, the new flood barriers in New Orleans and the new large rolling gates in some European sea locks.

'Lock Gates and Other Closures in Hydraulic Projects' offers a large collection of expertise that should satisfy every practically oriented engineer, manager or student in this field.

Philippe Rigo
Chairman of PIANC InCom

Jasna Muskatirovic
Secretary of PIANC InCom
4 Report of the Environmental Commission (EnviCom) 2018

4.1 Introduction

The Environmental Commission’s (EnviCom) mission is to provide practical, science-based guidance to shape and inform future environmental practice in the development and operation of sustainable navigation infrastructure. EnviCom pursues this mission by taking actions in support of three overarching goals:

1. Develop best practice guidance to create environmental value through sustainable, resilient navigation infrastructure.
2. Integrate best environmental practice into navigation planning, engineering and operations.
3. Use strategic communications to expand PIANC’s reach, engagement, partnering and impact.

Significant investments are being made in new and upgraded navigation infrastructure systems around the world. These investments present important opportunities to apply best environmental practice in order to develop sustainable navigation infrastructure. EnviCom’s strategic initiatives of Working with Nature and the Permanent Task Group on Climate Change (PTG CC) and EnviCom’s Working Groups are actively contributing to the development of best environmental practice. As we extend EnviCom’s communication within the navigation sector and its numerous stakeholders, we intend to expand our reach, influence and positive effect on infrastructure development worldwide.

4.2 Members

EnviCom currently has 27 members from 16 nations (Australia, Belgium, Colombia, Finland, France, Germany, India, Iran, Japan, Korea, the Netherlands, Norway, the Philippines, Spain, UK and USA) and 6 partner organisations (CCNR, CEDA, EUDA, IADC, IAPH, INE).

Chairman: Todd Bridges (USA)
Secretary: Edward Brauer (YP, USA)
Country members:
- Argentina: Gerardo Bessone
- Australia: Marika Calfas
- Belgium: Filip Vandeputte, Siegfried d’Haene
- Colombia: Ricardo Schmalbach
- Finland: Olli Holmes
- France: Paul Scherrer

Photo 1: EnviCom meeting at the Port of Huelva, Spain
• Germany: Elmar Fuchs  
• India: R.D. Tripathi  
• Iran: Nasser Hadjizadeh Zaker  
• Japan: Masahiko Fukami  
• Netherlands: Daan Rijk  
• Norway: Anne Kibsgaard, Arne Petterson  
• Philippines: Reynand Parafina, Elmer Nonatus A. Cadano, Christopher Ornum (YP)  
• South Korea: Myounghak Oh  
• Spain: Rócio López Picón, Alberto Acosta Soria (YP), Aina García Gomez (YP)  
• United Kingdom: Jan Brooke,  
• USA: Burton Suedel, Victor Magar, Sandra Brasfield Newell (YP)

Commission representatives:
• Ron Cox, Australia (CoCom)

Members from partner organisations:
• IAPH: Eric de Deckere  
• IADC: Rene Kolman  
• CEDA: Anna Csíti, Frederik Roose  
• EUDA: Paris Sansoglou  
• CCNR: Kai Kempmann, Pauli Gernot  
• INE: Karin de Schepper

Additionally, the following experts acted as Chairpersons of Working Groups and attended EnviCom meetings in 2018:
• PTG CC: Jan Brooke/Chair, Sandra Brasfield Newell/Secretary (USA)  
• PTG EU WFD Navi TG Jan Brooke (UK)  
• WwN Jury Elmar Fuchs (D)  
• WG 157: James Matt Jury (IADC)  
• WG 170: Chris McDougall (UK)  
• WG 174: Eric de Deckere (IAPH)  
• WG 175: Burton Suedel (USA)  
• WG 176: Victor Magar (USA)  
• WG 178: Charles Haine (UK)  
• WG 188: Doug Daugherty (USA)  
• TG 193: Katherine Chambers (USA)  
• WG 214: Victor Magar (USA)

4.3 Meetings

EnviCom held two face-to-face meetings in 2018.

Meeting no. 48 took place in Brussels, Belgium, hosted by PIANC Headquarters, during 30-31 January 2018, in conjunction with the 18th meeting of the Permanent Task Group on Climate Change (PTG CC) on 30 January 2018.

The 49th meeting was held in Seville, Spain on 15-16 October 2018 in conjunction with the 4th Mediterranean Days of Coastal and Port Engineering of PIANC. The meeting included a visit and tour of the Port of Huelva and a tour of the Port of Seville.

Meetings in 2019:
• 29-30 January 2019 in Brussels, Belgium, hosted by PIANC headquarters, in conjunction with the PTG CC (28 January 2019)  
• September 2019 in Lyon, France, in association with the PIANC-SMART Rivers Conference.
4.4 Working Groups, Technical Recommendations and Guidance

EnviCom continued its work in 2018 in the following fields:

Dredging

- Working group 157 – ‘Environmental Aspects of Dredging, Port and Waterway Construction around Coastal Plant Habitats’
  Chairman: James Matt Jury (IADC), EnviCom Mentor is Rene Kolman
  The work continues on this important topic, which began with a kick-off meeting of the Working Group in 2015. A complete draft of the report is expected in 2019.

- Working Group 170 – ‘Dredging Operations and Port Construction around Marine Turtles and Mammals’
  Chairman: Chris McDougall, EnviCom Mentor is Rene Kolman
  During 2018, progress continued on drafting the WG-report, which will focus on best practice guidance, with supporting examples. The Working Group is planning to complete a draft of the report by 2019.

Ports

- IAPH-PIANC WG 174 – ‘Sustainability Reporting for Ports’
  Eric de Deckere of the Port of Antwerp and IAPH has served as Secretary of this joint PIANC-IAPH report, which is expected to be published in 2019.

Navigation

- WG 175: ‘Environmental Risk Management for Navigation Infrastructure Projects’
  Chairman: Burton Suedel (USA), Co-Chairman: Kevin Kane (Australia), EnviCom Mentor: Todd Bridges (USA)
  The WG completed the production of draft report which is expected to be published in 2019.

  Chairman: Victor Magar (USA), EnviCom Mentor: Paul Scherrer (France)
  The WG, which began in 2015, published its report in 2018, shortly after the PIANC World Congress in Panama. ‘Working with Nature’ calls for a shift in thinking in our approach to navigation development projects to help deliver mutually beneficial, ‘win-win’ solutions that contribute economically to port and navigational infrastructure while protecting and potentially enhancing the environment. PIANC’s 2018 ‘Guidance on Applying Working with Nature to Navigation Infrastructure Projects’ offers a framework to design new infrastructure or rehabilitate existing infrastructure in a way that works with natural processes and promotes the creation of new wetlands and aquatic habitat as part of large infrastructure projects. This approach serves to enhance ecosystem viability and resilience and minimise negative anthropogenic impacts commonly associated with navigation infrastructure improvements. The guidance, prepared by PIANC’s Working Group 176, raises awareness of natural ecosystems, inspires the navigation infrastructure community to embrace natural systems design, and promotes expanded acceptance of the WwN approach by providing a selection of case studies to illustrate how WwN applies to navigation infrastructure projects.

  In essence, adopting the Working with Nature philosophy means doing things in a different order. Instead of developing a design and then assessing its environmental impacts – an approach which inevitably revolves around damage limitation and is ultimately not sustainable – Working with Nature advocates the following framework:
• **WG 195 – ‘An Introduction to applying Ecosystem Services for Waterborne Transport Infrastructure Projects’**  
Chairman: Al Confrancesco (USA), EnviCom/PTG  
Mentor: Elmar Fuchs (Germany)  
WG 195 met in Delft, the Netherlands, in January 2018. Another face-to-face meeting of the group was planned for during the 50th meeting of the EnviCom in Brussels, Belgium. The WG plans to produce a complete draft report in 2019.

![Picture of the European members of WG 195 in Delft, the Netherlands](image)

• **WG 214 – ‘Sediment Beneficial Use’**  
Interim Facilitator: Victor Magar (USA), Interim EnviCom Mentor: Burton Suedel (USA)  
This Working Group began its efforts at the end of 2018. Teleconference meetings were held in November and December 2018, and the formal, face-to-face kick-off meeting will be held in conjunction with EnviCom’s annual meeting in Brussels on 29 January-1 February 2019. The objective of WG 214 is to provide technical information and guidance regarding the state-of-practice for beneficial use of sediment by drawing from existing approaches and best practices worldwide. The report will link to other relevant reports published by, among others, PIANC, CEDA and IADC. The report will give orientation to sediment beneficial use practices, technologies, regulations and limitations.
Climate Change

- **WG 178 – ‘Working Group on Climate Change Adaptation for Maritime and Inland Port and Navigation Infrastructure’**
  
  **Chairman: Charles Haine (UK), Secretary: Ben Hodgkin (UK), EnviCom Mentor: Jan Brooke (UK)**

  Working Group 178 made further progress in 2018 after the core author group had met at WSP HQ in London in late December 2017. The focus has been threefold:
  
  - Significantly enhancing the climate science chapter – Understanding climate-related parameters, impacts and scenarios
  - Developing the risk assessment part of the methodology to be relevant to climate adaptation
  - Confirming and finalising case studies.

  In April 2018, key authors of those chapters met at the Institute of Hydraulics and Environment at Cantabria University in Santander, Spain, for a targeted meeting. During the summer of 2018, several members of the Working Group reviewed a full draft of the report. In the meantime, the work of WG 178 gained exposure at important international conferences including Adaptation Futures in South Africa, the Building with Nature seminar in the Netherlands and the AIVP Global Conference on Port-Cities in Canada (all in June), the GreenPorts Congress in Spain in October and the COP24 in Poland in December 2018.

  In autumn 2018, EnviCom and InCom representatives reviewed the draft guidance and the recommendations of the reviewers are being taken on board with a view to publication in the first half of 2019.

- **WG 188 – ‘Carbon Management for Port and Navigation Infrastructure’**
  
  **Chairman: Doug Daugherty (USA), Secretary: Talmor Meir (USA), EnviCom/PTG CC Mentor: Filip Vandeputte (Belgium)**

  WG 188 hit important milestones in 2018, including the finalisation of a draft report in September 2018 after a face-to-face meeting of the group in May and receipt of comments on the draft from 13 outside reviewers in December. The WG 188 members are busy finalising our document for publication in the first part of 2019.

- **TG 193 – ‘Resilience of the Maritime and Inland Waterborne Transport System (MIWTS)’**
  
  **Chairperson: Katherine Chambers (USA), EnviCom/PTG CC Mentor: Todd Bridges (USA)**

  The full draft for TG 193 was finished and delivered to EnviCom in 2017 and during the course of 2018, the TG reviewed and adjusted this draft and submitted a final version for outside review to the Chairman of EnviCom in December 2018. The TG is now embarking on a process to begin the final review and develop an outreach plan to circulate the findings, case study examples, and workshop materials that have been developed as a result of this group’s effort. The hurricane seasons of 2017 and 2018 drove major federal spending efforts in the United States, and the topic of maritime and inland resilience remains on the forefront of discussion during rebuilding efforts.
4.5  Strategic Initiatives


Eleven projects received WwN Certificates of Recognition in the period of 2014-2018. Those projects were:

- ‘Monmouth Beach Dune and Habitat Creation’ – Project Owner: U.S. Army Corps of Engineers.
- ‘Kalkense Meersen Cluster Upper Sea Scheldt’ – Project Owner: De Vlaamse Waterweg nv.
- ‘Environmental Concrete at Breakwater’ – Project Owner: Port of Wajima.
- ‘Rous Head Industrial Park’ – Project Owner: Freemantle Ports.
- ‘Middle Harbour Port of Oakland’ – Project Owner: Port of Oakland.

**WwN Project Awards Presented at the Panama World Congress**

The projects selected as finalists for the Working with Nature Award at the Panama PIANC World Congress were, in order:

*3rd Place: ‘Kalkense Meersen Cluster – Upper Sea Scheldt’*

The Sea Scheldt is the major waterway for inland navigation, connecting the ports of Ghent and Antwerp. With growing attention towards sustainability, a ‘Sustainable Management Plan’ was implemented for the navigation channel. The updated ‘Sigmaplan’ addresses combined solutions for safety and nature development. At the Kalkense Meersen Cluster both plans converge, implementing measures of about 1000 ha:

1) upgrade of Flood Control Area (FCA) Bergenmeersen to with a novel type of fish-friendly sluice
2) upgrade FCA Paardeweide with non-tidal attachment as new solution
3) building the new FCA Wijmeers combined with de-poldering
4) making the river self-dredging with willow mats reducing maintenance dredging works
5) restoration of natural wetlands along the river to buffer excess run-off and to restore fish migration
2nd Place: ‘Le Havre Port 2000 – Rehabilitation Seine Estuary’

To combine the will of the French Government to position Le Havre as a main sea-bound gateway for the flows of containerised goods to France/Europe with the acknowledgment of the utmost environmental importance of Seine Estuary intertidal wetland, it was decided to realise both the port project and the initialisation of an environmental rehabilitation of the Seine Estuary. The port construction works included building of long breakwaters and quays with draught up to 17 m, generating about 45 million m$^3$ of dredged material (DM) partly re-used within the construction works. At the same time wetland was developed, e.g. by dredging of a purely environmental channel. Bird resting areas have been created by re-use of DM, one on land using past hunting ponds and one in the south of Seine estuary with the building of an artificial island made of sand and gravel.

1st Place: ‘Middle Harbour Port of Oakland’

The Vision 2000 plan for the Port of Oakland is meant to gain future economic and environmental success by expanding the shipping operational capacity and improving cargo handing efficiency. The Port Vision 2000 strategy was to redirect the navigational use of the former U.S. Navy's operations away from Middle Harbour to the Port's Inner Harbour. This opens up the Middle Harbour and its shoreline for implementing the Port's community and environmental restoration goals. 9-11 Mm$^3$ of dredged material from the Inner Harbour channel deepening project provided material for the creation of an 181-acre shallow water habitat area designed for eel grass in the proximity of the Middle Harbour. At the same time, an additional 38-acre public park was created as the community wanted to gain access to the shoreline.

Other notable WwN activities in 2018 included organising and conducting a one-day WwN workshop at the PIANC World Congress in Panama and a presentation of WG 176 at the Mediterranean Days in Seville, Spain.
Permanent Task Group on Climate Change (PTG CC)

The PTG CC had two face-to-face meetings in 2018 (no. 18 on 29 January 2018 in Brussels and no. 19 on 15 October 2018 in Seville, Spain) both in connection with the EnviCom meetings. The PTG CC members are actively supporting the work of PIANC WG 178 on ‘Climate Adaptation’, WG 188 on ‘Carbon Management’ (published in April 2019), and Task Group 193 on ‘Resilience of the Maritime and Inland Waterborne Transport System’, all of which are due for publication in 2019 along with the update of the PIANC report Climate Change and Navigation (TG 3, 2008). Work has also started on a PTG CC ‘white paper’ to explore options for dealing with uncertainty in decision-making on climate change adaptation and investment in resilience.

As PTG CC seeks to step up its engagement with the other PIANC Commissions in 2019, there also remains a need for more members from National Sections to join the PTG CC in order to engage more fully across the sector.

The PTG CC continues to support the PIANC-led ‘Navigating a Changing Climate’ initiative, a partnership of nine international associations with interests in climate change mitigation and adaptation relevant to waterborne transport infrastructure (see below).

Representatives of the partner associations in the PIANC-led ‘Navigating a Changing Climate’ (NaCC) initiative met in Brussels in March 2018 and then again in September 2018. In addition to updating the Action Plan, the second meeting focused on preparations for the COP24 meetings, held this year in Katowice, Poland. NaCC partner ESPO and PIANC WG 178-member UNCTAD represented NaCC at COP24.


- In addition to the partner associations, the ‘Navigating a Changing Climate’ initiative now has 40 supporter organisations (see [http://navclimate.pianc.org/supporters](http://navclimate.pianc.org/supporters)).
- Climate change was a key topic at three NaCC partner conferences in 2018: IHMA’s conference in London in June, ESPO’s conference in Rotterdam, also in June and IWI’s conference in Ireland in September.
- In March 2018, NaCC partner IAPH launched its World Ports Sustainability Programme (WPSP), with workstreams on climate and energy and on resilient infrastructure.
- The World Ports Climate Action Programme, supported by WPSP was launched in September 2018 at the Global Climate Action Summit.
- ESPO’s EcoPorts network has reached almost 100 ports in 2018 with more than 1/3 certified with PERS environmental standard.
- The digital port-call optimisation initiative promoted by IHMA has been adopted by Port of Rotterdam amongst others, leading to improved efficiency and reduced emissions.
• Incentive schemes and green-charging of ports to reward front runners and improve shipping companies’ market reputation are increasingly being implemented.
• SFC has announced the integration of methodologies for inland waterways and logistics sites into the 2019 update of the GLEC Framework.
• The EU Interreg NWE Green WIN project met in November 2018: this initiative, which involves NaCC partner IWI, aims to reduce carbon emissions from waterway pumping.
• A NaCC survey on the costs and consequences of extreme weather events for ports and inland waterways has been piloted and was launched by IAPH in January 2019.
• The Navigating a Changing Climate Action Plan has been updated by PIANC to incorporate progress made by the partner associations in 2018.

In addition, the NaCC website continues to be updated with news from the Navigating a Changing Climate partner associations and with other relevant climate-related articles. The website therefore provides a bespoke climate change resource for the wider waterborne transport infrastructure sector (see http://navclimate.pianc.org).

Update on EnviCom PTG 1, the Water Framework Directive Navigation Task Group

The multi-stakeholder Navigation Task Group chaired by PIANC continued to represent the interests of European navigation sector stakeholders in the implementation process for the EU Water Framework Directive (WFD) in 2018.

ESPO, the European Boating Association, the European Dredging Association, CCNR, CEDA and ICOMIA are amongst the various commercial and recreational inland and maritime organisations that attend two-yearly meetings at PIANC’s offices in Brussels to receive updates on progress and to discuss the sector’s position on key issues.

Two main activities at EU level dominated discussions in the Group in 2018:

• the first steps in the Commission’s review to determine the fitness-for-purpose of the Water Framework Directive are now underway. The WFD NAVI Task Group will continue to follow progress and to ensure that the views of the European sector are taken into account in the review process.
• the preparation of new guidance on the setting of ‘good ecological potential’ targets for heavily modified and artificial water bodies is reaching its final stages. This guidance is relevant to the navigation sector in Europe because it deals with the identification and implementation of mitigation measures, including in relation to navigation uses.

4.6 The Future

2019 promises to be a busy and productive year for EnviCom. Most of our WGs will be completing their work in 2019. Several new Terms of Reference are under active development, which should lead to new WG’s on a range of topics, including: invasive species, underwater sound, environmental enhancements to hard infrastructure, environmental windows/seasonal restrictions for construction activity and ‘green’ financing.

We express our deep gratitude to all of 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 2019!

Todd Bridges
Chairman of PIANC EnviCom

Edward Brauer
Secretary of PIANC EnviCom
5 Report of the Recreational Navigation Commission (RecCom) 2018

5.1 Introduction

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 gives support to the broad recreational navigation community. The community that we support includes technical, government and business actors, who can be drivers of a large economic activity.

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. 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 programmes, including those that are part of waterborne transport projects.

It is the policy of the Commission to produce a regular flow of reports and to contribute in the technical support of the community working in this field. 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.

5.2 Strategic Alignment with PIANC Mission

5.2.1 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.
5.3 Members

Commission Members as of 2 January 2019 are:

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<tr>
<th>Members</th>
<th>Country, Role</th>
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<tbody>
<tr>
<td>Esteban Biondi</td>
<td>Argentina, Chairman</td>
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<tr>
<td>Simone Lanzalone</td>
<td>Italy, Secretary</td>
</tr>
<tr>
<td>Michiel de Jong</td>
<td>The Netherlands, Vice-Chair, PR</td>
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<tr>
<td>Claudio Fassardi</td>
<td>Argentina, PR</td>
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<td>Greg Britton</td>
<td>Australia, PR</td>
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<td>Steve Timmermans</td>
<td>Belgium, PR</td>
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<td>John Kwong</td>
<td>China, PR</td>
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<td>Eduardo Alejandro Montagut C.</td>
<td>Colombia, PR</td>
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<tr>
<td>Dimitrios Pagonis</td>
<td>Cyprus, Observer</td>
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<tr>
<td>Hans Nickels</td>
<td>Deutschland, PR</td>
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<tr>
<td>Liina Harm</td>
<td>Estonia, PR</td>
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<td>Harri Sane</td>
<td>Finland, PR</td>
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<td>Arnaud Guillard</td>
<td>France, PR</td>
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<tr>
<td>Laurent Monsaigeon</td>
<td>France, AL</td>
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<tr>
<td>Pierre Gaufres</td>
<td>France, PTG CC Observer</td>
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<tr>
<td>Fabiana Maccarini</td>
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<td>Mahdi Kamyab Roudsari</td>
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<td>Masato Yamashita</td>
<td>Japan, PR</td>
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<td>Harald Andreassen</td>
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<td>Gian Battista Borea d’Olmo</td>
<td>Principality of Monaco, PR</td>
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<td>Renè Bouchet</td>
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<td>Hong-Yeon Cho</td>
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<td>Stig Jansson</td>
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<td>Mohammad Al Mannaie</td>
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<td>Matthew Trammell</td>
<td>USA, YP</td>
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PR = Permanent Representative
AL = Alternate Representative
YP = Young Professional
5.4 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.

5.5 Working Group Activity During 2018

No RecCom Working Group reports were published during 2018, but significant progress was made on important efforts. The relatively old Working Groups are expected to be published in 2019, thanks to the commitment of their Chairmen: WG 147 – ‘Guidelines for Management of Recreational Navigation Activities within Fishing and Commercial Ports’, WG 182 – ‘Underwater Acoustic Imaging of Waterborne Transport Infrastructure’ and WG 168 – ‘Single Point Yacht Mooring Design’.

WG 202 – ‘Influence of Recreational Navigation Infrastructure on Waterfront Projects’: this new Working Group, which includes the first collaboration between PIANC and ULI, as well as the involvement of ICOMIA, started its activities during 2018.

WG 209 – ‘Recommendations for Use of AIS Data for Recreational Navigation Infrastructure’ was approved and is under formation.

A process to review existing reports has been initiated during 2018 and is expected to continue to improve the quality of the technical documents available.

During 2018, RecCom has encouraged the participation of YP’s in existing WG’s, as well as the participation of Observers, who can contribute to the WG providing information regarding needs for technical information in various parts of the world.

5.6 Working Group Status Summary

5.6.1 Ongoing 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>For publication in 2019</td>
</tr>
<tr>
<td>148</td>
<td>Recommendations for Environmentally Sustainable Recreational Navigation Infrastructure</td>
<td>Ongoing with slow progress. Additional members required.</td>
</tr>
<tr>
<td>149</td>
<td>Guidelines for Marina Design</td>
<td>Parts 3 and 5 pending completion</td>
</tr>
<tr>
<td>168</td>
<td>Single Point Yacht Mooring Design</td>
<td>For publication in 2019</td>
</tr>
<tr>
<td>169</td>
<td>Fire System Detection and Controls in Marinas</td>
<td>To be relaunched in 2019</td>
</tr>
<tr>
<td>182</td>
<td>Underwater Acoustic Imaging of Waterborne Transport Infrastructure</td>
<td>For publication in 2019</td>
</tr>
<tr>
<td>202</td>
<td>Influence of Recreational Navigation Infrastructures (RNI) on Waterfront Projects</td>
<td>Started in 2019</td>
</tr>
<tr>
<td>209</td>
<td>Recommendations for use of AIS Data for Recreational Navigation Infrastructure</td>
<td>In formation. Additional members required.</td>
</tr>
</tbody>
</table>
5.6.2 Upcoming Terms of Reference

<table>
<thead>
<tr>
<th>Term of Reference</th>
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</thead>
<tbody>
<tr>
<td>Impacts of Alternative Fuel Propulsion Systems for Recreational Vessels in Marina Design (Plug-In Electric Boats)</td>
</tr>
<tr>
<td>Design Guidance for Slipways (Boat Ramps) for Recreational Boats</td>
</tr>
<tr>
<td>Meaningful Inclusion of Fishing Communities in Recreational Marinas – Guidelines for Planning</td>
</tr>
<tr>
<td>Planning, Design and Operational Guidelines for Pump-Out Systems in Recreational Facilities</td>
</tr>
<tr>
<td>InCom – Guidelines to Develop Sustainable Nautical Tourism and Recreation Infrastructure Models in Inland Waterways</td>
</tr>
</tbody>
</table>

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

Received submittals have resulted in the selection of the next award recipient (during the first meeting of 2019). The award recipient will be announced during 2019, preferably at a marina industry event.

5.8 PIANC Marina Design Training Programme (MDTP)

No courses were held in 2018, but the foundations for the continuity of the programme were reinforced.

A one-day course was programmed as a short-course prior to the PIANC Congress in Panama but had to be cancelled due to the lack of sufficient participants. RecCom recommends that registration to the course does not require registration to the Congress, to facilitate participation and increase the relevance of PIANC in the marina community. However, this strategy was not yet implemented during this event.

Various discussions were held to organise a MDTP in Colombia, Chile and Amsterdam:

Members of the National Section of Colombia, the Colombian representative in RecCom and the Chairman of the Commission met in Cartagena during the Colombia Nautica (the Cartagena Boat Show) and discussed the interest of holding an activity.

An active member of the group promoting the creation of the Chilean National Section also discussed with the Chair ideas to implement the course.

RecCom has ongoing conversations with RAI, the organisers of METS tradeshow. This boating industry event has a marina pavilion, which also hosts activities by our Sister Organisations ICOMIA and GMI. While a MDTP was not organised during 2018, advanced discussions to date suggest that it can be organised for METSTRADE 2019, to be held in November 2019.

5.9 RecCom Meetings during 2018

The RecCom meetings during 2018 were organised in:

- Brussels, Belgium, during the PIANC Winter week (RecCom 71)
- Sevilla, Spain, during the PIANC Med Days (RecCom 72)

A meeting was scheduled to be held prior to the PIANC World Congress in Panama but was cancelled due to the lack of participants.
5.10 Activities of RecCom

5.10.1 Superyacht Symposium, Dubai, 28 February-1 March 2018

Mr Biondi, Chairman of RecCom, was invited to lead a panel during the first such event in Dubai. The panel included 6 industry experts that discussed proposals to build a superyacht hub in the region. Key findings of the discussion included recommendations for improvement in the regulatory framework (navigation permits and immigration procedures) and expanding the offering of yachting destinations to include also authentic and memorable experiences.

Colombia Nautica, Cartagena, 1-3 June 2018

Mr Biondi met with representatives of DIMAR (Colombian government regulatory agency), Asonautica (boating industry association), and the Colombian representative in RecCom to discuss opportunities for collaboration. Initial ideas to conduct a MDTP in Colombia were discussed further.

5.10.2 PIANC World Congress Marina Track, Panama, 6-11 May 2018

RecCom worked on a broad range of initiatives for the World Congress, in line with its strategic goals. Some did not reach the expected outcome but resulted in valuable lessons, while others were very successful.

RecCom worked closely with the LOC to organise the marina-related topics and promoted abstract submittals. We are proud that ACP, a cargo-focused business with highly technical work showcased in the Congress, presented a paper on our topic. Environmental and sustainability topics, as well as Working Group progress, were also presented.

5.10.2.1 Short Courses

RecCom participated in EnviCom’s short course ‘Working with Nature in the Americas: Generating Ecosystem Services in the Waterborne Transport Sector’. Esteban Biondi presented the progress on RecCom WG 148 – ‘Environmentally Sustainable Recreation Infrastructure’, as part of the full-day programme.

5.10.2.2 Marina-Related Papers

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>Mr Ricardo Ungo</td>
<td>Relevance of the Panama Canal in the Recreational Navigation Business</td>
</tr>
<tr>
<td>Mr Claudio Fassardi</td>
<td>Single Point Yacht Moorings (WG 168)</td>
</tr>
<tr>
<td>Mr Esteban Biondi</td>
<td>Marinas Working with Nature: The PIANC Philosophy and Experience in Latin America and the Caribbean (WG 148)</td>
</tr>
<tr>
<td>Mr Jason Norris</td>
<td>Sustained by the Sea: How a Small Boat Harbour Study in Rural Alaska Produced Insights into Economic and Environmental Sustainability</td>
</tr>
<tr>
<td>Dr Wen-Huei Chang</td>
<td>Marina Management in the Natural Resources Programme: The US Army Corps of Engineers Case Study</td>
</tr>
<tr>
<td>Mr. Ozgur Unay</td>
<td>Marina Design in Areas of High Environmental Sensitivity</td>
</tr>
<tr>
<td>Mr Enrique Peña González</td>
<td>Experience in Wave Attenuator Structures to Protect Marinas: Functional and Structural Design</td>
</tr>
<tr>
<td>Mauricio Wesson</td>
<td>Designing Ocean Reef Harbour Entrance for Swell Conditions</td>
</tr>
<tr>
<td>Dr Andrew Cornett</td>
<td>Value of 3-D Physical Modelling in Harbour Design – Gateway Harbour Case Study</td>
</tr>
<tr>
<td>Mr Michiel De Jong</td>
<td>The Diversifying Business of Port Authorities: from Commercial Ports to Commercial Waterfronts</td>
</tr>
</tbody>
</table>
5.11 PIANC World Congress Marina Forum, Panama, 7-8 May 2018

After the marina track sessions of the Congress, an open forum was held. Organised by Cámara Marítima de Panamá (Grupo de Yates y Marinas), and RecCom, with the support of the LOC, it included the presence of the Minister of Tourism of Panama.

Cámara Marítima de Panamá is a business association that deals with maritime affairs in Panama and has an established group on marinas and yachts. Several members of the association (marina owners, developers and operators) assisted to brief opening presentations and participated in a thorough open discussion. The next morning, additional meetings were held with the association leadership and RecCom, to explore further collaboration opportunities.

Making this activity open to the general public allowed RecCom to reach a wide local audience, which was not aware of PIANC. The association is now aware of PIANC and RecCom and will be considering further opportunities to collaborate with PIANC.

5.12 PIANC Med Days, Seville, 17-19 October 2018

RecCom worked to introduce relevant topics to our commission within the activities of the Med Days and promoted its call for abstracts. Environmental and sustainability topics were at the core of the conference, and a marina paper related to Working with Nature (also input to an ongoing Working Group) was presented.

5.13 RecCom Meeting

During the RecCom meeting in Seville, PIANC Spain organised the participation of a representative from the local port authority of Andalucía. The autonomous public agency ‘Puertos de Andalucía’ (APPA), manages 24 ports directly and 12 through concessions, including a large number of marinas. Out of the 52 Andalusian ports, 47 have sporting activity, hosting a total of 79 recreational nautical facilities. The region has a total of almost 22,500 berths in recreational marinas. It was reported that recreational boating in Andalucía generates €228 million in income, involving 565 companies and sustaining 2,810 jobs.

This invitation raised the awareness of PIANC within the local boating community.

5.14 ICOMIA World Marina Conference, Athens, 25-27 October 2018

Mr Biondi, Chairman of RecCom, was invited by ICOMIA to participate in a panel about new marina international guidelines and standards during World Marina Conference.

The conference had 375 participants and the presentation highlighted the activities of RecCom and its Working Groups.

5.15 Planning for Future Major PIANC International Events

RecCom initiated coordination with the Local Organising Committees of the PIANC AGA 2019 (Kobe, Japan) and the PIANC-SMART Rivers Conference 2019 (Lyon, France), in order to include activities relevant to the local recreational navigation community.
5.16 Message to PIANC National Sections and Qualifying Members

- We want to be useful in your country.
- We know that there is a recreation or tourism navigation activity in your country, even if they are probably not your typical PIANC members, and we hope to work together to connect with them.
- We know that the recreational navigation industry has potential for positive economic impact in your country.
- The recreational navigation community is likely an untapped or undeveloped source of PIANC members for your National Section. Even the largest and most developed National Sections can do more to work with them.
- We intend to use PIANC major events to connect with the marina industry in your region, and we hope to work with LOC’s to maximise the opportunities offered by these events.

Esteban Biondi  
Chairman of PIANC RecCom

Simone Lanzalone  
Secretary of PIANC RecCom
6 Report of the Co-Operation Commission (CoCom) 2018

6.1 Introduction

2018 saw a continuation of the activities of the Commission begun over the last several years. This Annual Report summarises those activities and describes progress made with respect to certain goals of the Commission during that period.

6.2 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
- Kevin Knight, USA
- Abbas Sarmad, USA (Alternate)
- Elizabeth Follosco, the Philippines
- Hector Miole, the Philippines
- Hartmut Brühl, Germany
- Michaël Fastenbauer, Austria
- Rogelio Gordon, Panama
- Ronald Stive, the Netherlands
- Geert van Cappellen, PIANC Secretary-General
- Freddy Wens, Belgium – PIANC-COPEDEC IOC Chair
- Enrique de Faragó Botella, Spain
- José-Luis Monso de Prat, Spain (Alternate)
- Young-Min Oh, South Korea
- Daphne Thoon, Belgium – YP
- Razzazan, Iran
- Mohammad Hossein Nemati, Iran (Alternate)

Several changes to the membership occurred during the year:

- Geert van Cappellen replaced Louis van Schel
- Mohammad Hossein Nemati was appointed as Alternate Delegate for Iran
- Cecilia Norman, the Argentinian YP left the Commission

6.3 CoCom Meetings

During 2018, several meetings were held: a formal meeting on 30 January 2018 at PIANC HQ in Brussels, as well as an informal meeting in May in Panama City at the occasion of the PIANC World Congress. A third meeting was held in Seville on 14 October 2018, in association with the Med Days Conference.

The meetings 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 formal meetings has been good, generally including at least 10 to 12 members.
6.4 Sub-Committees

6.4.1 SC-1 on Training & Education

SC-1, ‘Training in Ports and Waterways’ (formerly WG 126) continues to be headed by Mr 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.**

6.4.1.1 Training on Port Master Planning and Access Channel Design – 24-26 October 2018 in Indonesia

Under Mr Stive’s direction, the subcommittee developed a multi-day short course based on one of the more popular PIANC Working Group reports, such as WG 121 – ‘Harbour Approach Channel Design’. The intent was to increase PIANC’s visibility in new markets, to exhibit the value of PIANC membership and to attract further members to a new Qualifying Membership. Indonesia was the latest location for the short course. Financial support was provided from HQ to launch this maiden effort.

In co-operation with PIANC Indonesia and with the support of the Dutch and Australian Sections of PIANC, CoCom successfully organised a ‘pilot’ training event. The course was another in a series sponsored by CoCom to enhance membership benefits in target countries or new members. Previous efforts were conducted in Colombia and the Philippines, although this is the first specifically geared to showcasing a WG-report.

The Training Course was scheduled to satisfy two main goals:

1. Promote and enhance the further development of the Indonesian Section of PIANC.

2. Compile a training course and syllabus on the ‘Design of Harbour Approach Channels’, directly linked to PIANC WG 121. Having the syllabus available, which is stepwise further to be optimised, PIANC HQ & CoCom can moreover use it for future WG 121 training courses, and thereby promote PIANC and their WG 121 Guideline to the professional engineering community in the best way possible. It is noted that CoCom is considering that similar initiatives are developed for our most popular PIANC WG-topics.

To offer an attractive and effective training tuned to the local Indonesian engineering market it was decided to provide a tailored training content, being:

- Day 1: Port Master Planning in broader context by Prof. Han Ligteringen
- Day 2: PIANC WG 121 Guideline by Laurence Benn and Ronald Stive
- Day 3: Indonesian Port and Channel Design Exercise by Prof. Ligteringen and Ronald Stive
The event took place on 24-26 October 2018 at the Best Western Premiere Panbil hotel residence at Batam Island in Indonesia, close to Singapore. With local sponsoring and tremendous support of the local PIANC Organising Committee, the training fee was kept to a minimum. Initially aiming at a number of participants in the range of 30-40, there was so much interest that the Organising Committee had to limit the subscriptions to a maximum of 54. It turned out that the event was finally attended by participants from port developers, port authorities, consultants, universities and other private entities in Indonesia.

On behalf of PIANC HQ and PIANC Indonesia a training participation certificate was issued to all participating in the course.

We would like to express our sincere appreciation to the Local Organising Committee and the trainers, because without them this event would not have been such a success.

Local organising team leader Andre Prakoso and the trainers

PIANC CoCom will take the lessons learnt from this pilot event and evaluate how PIANC, preferably as an ongoing effort, can best disseminate the Working Group guideline knowledge by means of an appealing training format to PIANC members and others.

In case local PIANC sections are interested to consider similar Guideline related training events, please do not hesitate to contact Ronald Stive, Chairman of CoCom Sub-Committee on Training and Education, via ronald.stive@rhdhv.com.

A similar session in Cambodia is currently under consideration with support from the Japanese Section. Cambodia recently became a Qualifying Member. A proposal is anticipated during the January meeting in Brussels.

6.4.2 SC2 – Regional Activities

Specific targeted countries have been identified by the 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>
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<tbody>
<tr>
<td><strong>Continent / Country</strong></td>
<td><strong>To be followed up by National Section(s)</strong></td>
</tr>
<tr>
<td><strong>AMERICA</strong></td>
<td></td>
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<tr>
<td>1</td>
<td>Mexico</td>
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<td>2</td>
<td>Chile</td>
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<td>3</td>
<td>Uruguay</td>
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<td>4</td>
<td>Peru</td>
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<tr>
<td><strong>AFRICA</strong></td>
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<td>5</td>
<td>Kenya</td>
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<td>6</td>
<td>Mozambique</td>
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<tr>
<td><strong>ASIA</strong></td>
<td></td>
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<tr>
<td>7</td>
<td>Myanmar</td>
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<td>8</td>
<td>Fiji &amp; Papua New Guinea</td>
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<tr>
<td>9</td>
<td>Cambodia</td>
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<td>10</td>
<td>Thailand</td>
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<td>11</td>
<td>Singapore</td>
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<tr>
<td>12</td>
<td>Indonesia</td>
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<tr>
<td><strong>MIDDLE EAST</strong></td>
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<td>13</td>
<td>UAE</td>
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<td>14</td>
<td>Qatar</td>
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<td>15</td>
<td>Kuwait</td>
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<td>16</td>
<td>Oman</td>
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<td><strong>EUROPE</strong></td>
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<td>17</td>
<td>(Latvia)</td>
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<td>18</td>
<td>(Lithuania)</td>
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<td>19</td>
<td>Poland</td>
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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 the country in late 2014 to help solidify the Section, were followed by Indonesia in 2015 and 2016. These efforts were spearheaded by the Japanese Section and supported by the Netherlands and Australia.

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 Kevin Knight, with support from HQ, continue to provide co-ordination and support to the Colombian Section and other Latin American activities. José-Luis Monsó de Prat continues to encourage Chilean involvement in the organisation. Meetings with Chilean representatives were held in Panama during the World Congress.

Additionally, PIANC USA, in collaboration with other PIANC National Sections and Qualifying Members in Latin America, has continued to refine a work plan aimed at strengthening and expanding PIANC in the Americas. 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.
Kevin Knight (CoCom) and Lillian Almodovar (PIANC USA) continued to strengthen PIANC’s presence and influence in Latin America over the past year. Networking with port officials and leading brainstorming sessions at prior PIANC events culminated in the 1st PIANC America Regional Forum, ‘Technological Advances and the Future of Navigation in America’, which was held at the PIANC World Congress in Panama in May 2018. The interactive and lively session was well attended and included speakers from several countries throughout Latin America, including Panama, Brazil, Argentina, Chile, the United States and Colombia. Speakers shared their experiences and addressed key questions such as:

- What were some of the major advances related to technology in the navigation sector?
- What successes and failures did your nation face when adopting the new technologies?
- What were the major obstacles associated with implementing them? What were the unexpected surprises?
- What is the path forward to maintain competitiveness?
- What PIANC can do to ensure its success?

This forum will allow nations throughout Latin America to share key expertise and knowledge as related to the needs of the navigation. The intent is that future forums which will not only increase capability throughout Latin America but also provide its members with a greater voice and influence within PIANC as a whole.

The Australian, Dutch and Japanese Sections of PIANC are all currently actively engaged in similar efforts in their respective geographies. Vietnam continues to be pursued. The Australian Section has taken a number of actions, consistent with their Strategic Plan, and with the objectives of CoCom for expanding PIANC membership.

### 6.4.3 SC3 – PIANC-COPEDEC X Conference

Due to the US sanctions on Iran, the related difficult political situation and anticipated challenges for westerners travelling to that country in the future, a decision was made by the ExCom in August 2018 to relocate the PIANC-COPEDEC X Conference to another location. A meeting of a reconstituted IOC/LOC was held in Manila, the Philippines on 3-5 December 2018. The purpose of the meeting was to begin the preparations for the PIANC-COPEDEC X Conference scheduled for November 2020. A Call for Papers was released in April of this year.

The theme of the conference will be ‘Enhancing Waterborne Transport and Sustainable Coastal Development’. During the meeting, the decision was made to organise the PIANC-COPEDEC X Conference from Monday 16 to Friday 20 November 2020. The specific location in Manila will be proposed by the LOC based on site visits conducted during that meeting.

The IOC is composed of following members: Ir. Freddy Wens (Chairman), Mr Geert Van Cappellen (PIANC Secretary-General), Ir. Louis Van Schel (Belgium), Dr. Hartmut Brühl (Germany), Dr. Gary Mocke (South Africa), Mr Raúl Escalante (Argentina), Mr Hector Estrella Miole (the Philippines) and Mr Mohammadreza Allahyar (Iran). Jay Santiago is the LOC Chairman for the Philippines.

### 6.5 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.

Edward J. Schmeltz and Akula Rao  
Co-Chairpersons of PIANC CoCom

Peter Dewolf  
Secretary of PIANC CoCom
7 Report of the Young Professionals Commission (YP-Com) 2018

Another year gone by and once again, the diverse group of young men and women known as YP-Com have shown how passionate they are about the collective waterborne transport infrastructure industry and all related fields of practice. Whether it be improving waterborne navigation, Working with Nature, finding practical solutions to modern challenges like sea level change, planning efforts to help better guide capital investment, implementing responsible port designs, or assisting developing nations to achieve more through improving waterways and coastlines, PIANC’s Young Professionals (YP’s) are all keen to help.

2018 was among the Commission’s busiest years in terms of events, and particularly for Regional Events, which help strengthen existing YP-sections while providing opportunity to create new momentum in surrounding countries. The intent of the regional seminars varies by geography, but the overwhelming direction of it all is to enliven and rejuvenate a given country or an entire region. The footsteps of these seminars lead a trail of success.

For example, in 2018, YP-Com hosted its 4th Annual River Plate and South America Meeting, this time in Nueva Palmira, Uruguay. Thanks in part to the continuation of these meetings since 2014, activity in South America continues to grow in terms of new individual memberships, new discussions, new Working Groups, and even new countries like Ecuador, Uruguay and Chile. More yet is the renewed strength to countries like Brazil, now on a path from Qualifying Member to National Section.

In the Asia-Pacific Region, our 3rd Asia-Pacific Seminar, held in Seoul and Busan, South Korea, in October-November 2018, infused PIANC South Korea with a new feeling of comradery through the sharing of technical presentations, networking activities, technical visits and cultural/sightseeing opportunities.

In the Europe-Africa Region, the Commission aligned with SAICE Marine, a local sister organisation, and Stellenbosch University to hold its first ever YP-Com African Seminar in August. This event, themed ‘Networking with People and Raising Awareness of the Marine Environment’, drew 130 participants from South Africa and its neighbouring countries. Not only this Regional Seminar was important for YP-Com, it also supported the South African National Section’s Candidacy for the 2022 World Congress.

These regional seminars are timely examples of YP-Com’s seemingly unlimited appetite for developing sections in target countries, as was the case in South Africa more than 10 years ago, which has since become a Qualifying Member with a strong National Section. Even more recently, thanks to the initiatives of YPs in Singapore, PIANC’s most recent Qualifying Member is also expected to transition into a full National Section in 2019.

Since debuting as a permanent commission in 2006, YP-Com has broadened its reach to the point that YP’s are integrated into all areas of PIANC. Among our mission points is to remain omnipresent to support the strategic objectives of PIANC in as many ways as possible, so it is important to reflect on the inner-workings of our Commission at the end of each year. In 2018, YP-Com was most active in the following ways:

- **Organisational Structure** – In 2018 The YP-Com Board held 12 meetings, which was quite an accomplishment given our usual span of 18 hours and 7 time zones. The YP-Com Board was a great success in all of its three regions (Europe/Africa, Asia-Pacific and the Americas). The board welcomed Esli Vrolijk, Rodrigo Moltó, Tom Shand and Chris Ornum in 2018. See Section 1.1 for a visual representation of our organisational structure and a list of Board Members.

- **Global Footprint** – In 2018, YP-Com had more than 50 Delegates and Observers across 36 countries in 6 continents. This allowed us to realise our impact on membership and engage with some of CoCom’s target countries through YP-initiatives. YP-Com held two commission meetings with our delegates: during the January-February PIANC meetings in Brussels and in May during the AGA in Panama. See Section 1.2 for our complete membership roster of delegates and observers to our Commission.
• **YP-Observers to Technical Commissions** – YP-Com’s representation within each of the four technical commissions was fortified in 2018 when we welcomed new observers from USA and Italy. These roles are among YP-Com’s most significant appointments, as they provide direct linkage between YP-Com and the Technical Commissions.

![YP-Com Observers to PIANC’s Technical Commissions are Ed Backlund (MarCom – USA), Stefan Devocht (InCom – Belgium), Francesco Ligorio (ReCom – Italy) and Rachel Grandpre (EnviCom – USA)](image)

• **Online Networking** – Our Linkedin Group grew to nearly 2,400 members in 2018!

• **Awards** – Awards made to YP’s in 2018 included the PIANC De Paepe-Willems Award and the YP Awards made during the World Congress in Panama. See Section 1.3 for details and award recipients.

• **Events** – YP-Com hosted several signature events at international, regional and local levels in 2018. In addition, we hosted our own unique initiatives during traditional PIANC Congresses and Conferences. From the World Congress in Panama, which included a networking night out at Casco Viejo (thanks to our sponsorship from Soletanche Bachy) to the PIANC Med Days, where the YP’s convened for a night of networking and socialising thanks to ShibataFenderTeam. See Sections 1.4 and 1.5 for narratives of YP activities held during these events and for YP-Com signature events in 2018.

• Last but not least, YP-Com must say farewell to our friends and key representatives that helped shape our Commission over the past several years. See Section 1.6.

### 7.1 YP-Com Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Region/Role</th>
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<tbody>
<tr>
<td>Andrew Thomas (USA)</td>
<td>Chair</td>
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<td>Eslie Vroliık (the Netherlands)</td>
<td>Co-Chair</td>
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<td>Rodrigo Moltó (Spain)</td>
<td>Secretary</td>
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<td>Carolina Piccoli (Brazil)</td>
<td>America Vice-Chair</td>
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<td>Ingrid Klimann (Argentina)</td>
<td>America Vice-Chair Supporter</td>
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<td>Juan Martín Rodríguez (Argentina)</td>
<td>America Vice-Chair Supporter</td>
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<td>Tom Shand (New Zealand)</td>
<td>Asia-Pacific Vice-Chair</td>
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<td>Chris Ornum (the Philippines)</td>
<td>Asia-Pacific Vice-Chair Supporter</td>
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<td>Daan Jumelet (the Netherlands)</td>
<td>Europe-Africa Vice-Chair</td>
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<td>Enrique Ripoll (Spain)</td>
<td>Europe-Africa Vice-Chair Supporter</td>
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7.2 The 2018 Membership Roster of YP-Com

In addition to those mentioned for the YP-Com Board, the following sections list the name of the current YP-Com Delegates and Observers all around the world.

7.2.1 Delegates

Matías Palma (Argentina)
Vincent Besson (Argentina)
Rodney Hancock (Australia)
Lisa-Maria Putz (Austria)
Stefan Devocht (Belgium)
Koen van Doorslaer (Belgium)
Neville Berard (Canada)
Kim Andersson-Berlin (Finland)
Laure Herbert (France)
Anja Brüning (Germany)
Ingrid Dispert (Germany)
Reza Sohrabi (Iran)
Alireza Shafigheefar (Iran)
Afshan Khaleghi (Iran)
Francesco Ligorio (Italy)
Masayuki Banno (Japan)
Naouzumi Yoshizuka (Japan)
Deokhee Won (South Korea)
Minwoo Kim (South Korea)
Irena Doets (the Netherlands)
Onno Musch (Norway)
Gensheng Zhao (China)
Adrian Cayanian (Philippines)
Luciana das Neves (Portugal)
Hugo Lopes (Portugal)
Monica Tsitsas (Romania)
Zi Qian Yang (Singapore)
Kishan Tulsi (South Africa)
Heather Armour (United Kingdom)
Andrea Viteri (USA)
Ashley Frey (USA)
Matt McCarty (USA)
Sebastián Solari (Uruguay)

7.2.2 Observers

João Dobrochinsky (Brazil)
José Aldunate (Chile)
Raúl Opperreuter (Chile)
Zhao Hongbo (China)
Melina Godoy (Costa Rica)
Kristine Pliegaard (Denmark)
Carlos Miranda (Ecuador)
Jordan Lagnado (France)
Ben Nair (Malaysia)
Ilse van den Bosch (the Netherlands)
Pieter Nordbeck (the Netherlands)
Chip Pohlen (New Zealand)
Ricardo Álvarez (Panama)
Chantal Lazarus (Panama)
Vera Wong (Singapore)
Maria Fyrby (Sweden)
Aysim Damla Atalay (Turkey)
Ed Backlund (USA)
Rachel Grandpre (USA)
Jia Hann Tan (Vietnam)
7.3 Awards

7.3.1 Young Professional Award: World Congress Panama

At the occasion of the World Congress, the YP Award is given for outstanding technical paper and presentation authored and presented by a Young Professional at the PIANC World Congress. The 2018 World Congress in Panama YP Award attracted over 30 applicants eligible for the YP Award! YP-Com has gone through a careful process evaluating and ranking all submitted papers and presentations held in Panama. This has finally resulted in the long-expected winner of the World Congress YP Award 2018, as well as a second and third place. It was a difficult decision and all top-3 Young Professionals are congratulated with an excellent paper and presentation. However, after this process... we are happy to announce...

2018 World Congress YP Award – 1st place:

The winner of the World Congress YP Award 2018 is Neville Berard with her paper on ‘Physical Modelling of Propeller Scour on an Armoured Slope’.

Overall feedback was very positive, with a detailed research conducted resulting in solid conclusions for the task at hand. The review panel found the paper very well-written and was appreciative of the references to current PIANC guidelines. Several valuable conclusions provided at the end of the paper, including practical, real-world design refinement suggestions, as well as a thorough and specific critique of PIANC WG 180 and how it may be in need of refinement.

2018 World Congress YP Award – 2nd place:

An honourable second place is awarded to Thibaut van Zwijnsvoorde for his paper on ‘Motions of Moored Container Vessels’. His paper on the motions of ultra large container vessels at berth treats a very relevant topic which will broadly affect waterborne transport routes and infrastructure. His analysis is well thought-through and logical, and sharing his research evaluating measured motions is excellent and provides professional peers the opportunity to understand the limitations in the mooring analysis models.

2018 World Congress YP Award – 3rd place:

The third place is captured by Judith Mol with her paper on ‘Exploring Potential Climate Change Impacts’. Judith developed a conceptual framework for the quantification of risks for port operability and exploring adaptation strategies and has presented and described this in a clear, concise and logical way. The topic is very timely and relevant to peers, aligning well with PIANC’s strategy.

The YP-Com would like to take this opportunity to congratulate the three award winners and hope to be able to invite the winners to an upcoming YP-event in 2019, where a timeslot can be made available for a presentation and more questions on the topics.

7.3.2 PIANC De Paepe-Willems Award During the 2018 AGA in Panama

This year, Kenichi Mizuno (Japan) was the first-place recipient for the PIANC De Paepe-Willems Award for his paper, ‘System of Inspection and Diagnosis for Port Structures Using Unmanned Boat’. The second-place recipient was Mr J. Schutte (the Netherlands) for his paper ‘Deepening of an Existing Combi Wall’. The third-place recipient was Mr S. Freeman (Australia) for his paper ‘Impacts of X-Ray Screening 100 % of Import Containers within Small to Medium Container Terminals’.
Kenichi Mizuno with President Geoffroy Caude and then PIANC Vice-President Tore Lundestad at the 2018 AGA in Panama

### 7.4 YP-Com at the 34th PIANC World Congress

PIANC YP-Com organised several international activities during the 34th PIANC World Congress in Panama in May 2018, including YP-Com Board meetings, a technical visit to the Atlantic locks by train in advance of the Congress, a Ports of the Future ‘Serious Game’ workshop and networking drinks in the old city centre of Panama City: Casco Viejo.

With YP’s from all over the world attending the Congress, this was a great opportunity for a meeting of the YP-Com. The usual subjects were discussed, such as upcoming activities on national, regional and international level. In addition, the meeting was largely used to discuss YP-Com’s Action Plan as part of its own Strategic Plan for the Commission, building on PIANC’s Strategic Plan for 2019-2023.

The YP’s could also travel by train to the Atlantic side early in the morning and enjoy the beautiful train ride to the other side and visit the Panama Channel locks.

After the first day of the Congress, the YP’s were invited to join the ‘Ports of the Future – Serious Game’: a simulation game that applies a fictive but realistic atmosphere, autonomous scenarios, a set of measures and a qualitative set of indicators that provide information on the effects of port development for society, the natural environment and the economy.

On one of the evenings of the Congress, a networking event, sponsored by Soletanche Bachy, was organised in a beautiful old venue in Casco Viejo. The complete first floor of the venue was occupied with over 125 YP’s, representing more than 25 % of the total Congress attendees.

The Closing Dinner of the Congress was a memorable event for some of us, as all the YP’s officially said all their thanks and goodbyes to Pablo Arecco for having made a tremendous effort in the past years to build YP-Com in its current shape.

We would also like to give special thanks to Ricardo Alvarez and welcome him into the Commission as the new Panamanian YP-Observer. For all the long hours and hard work you put into organising the 2018 PIANC World Congress (especially all the YP-arrangements) – we couldn’t have done it without your help – thanks for making our presence felt!
7.5 YP-Com Events

A few highlights of the YP-activities within the National Sections of PIANC.

7.5.1 America

7.5.1.1 Argentina

PIANC Argentina YP-Com has participated in lots of events promoted for PIANC members and has celebrated two events for YP’s during 2018: the YP Barranqueras Port Conference and a technical visit to the seaports in the city of Puerto Madryn and the city of Rawson, Province of Chubut, the first event of PIANC in Patagonia.

During the celebration of the YP Barranqueras Port Conference, several technical lectures by expert-speakers about topics of interest were presented: navigable waterways of the Barranqueras port area and comparative to other regions, locks in the waterways system, the project of Bi-Oceanic Corridos and the preliminary evaluation and studies on the locks projects of Itaipú Binational. These expositions were completed with a visit to the terminals of the Barranqueras Port.
Moreover, as said at the beginning of this section, the YP’s in the field of ports from Argentina and the region shared the conference days of PIANC Argentina YP – ‘Seaports in the City of Puerto Madryn and the City of Rawson’, where renowned professionals aboard topics of interest as the Puerto Madryn Port Administration presentation and the port construction activities in the city of Puerto Madryn: quay extension in Almirante Storni and Comandante Luis Piedra docks. After the technical sessions, a tour of the aluminium factory and the previously mentioned docks were carried out. The event concluded with the Port of Rawson visit, located at Playa Unión, where the YP’s could see the execution of a new fishing pier and the city’s breakwater.

7.5.1.2 Chile

The PIANC Chile YP’s met in October at the 107th American Association of Port Authorities Annual Convention 2018 in Valparaíso, Chile. The PIANC YP’s, on behalf of the companies they belong to, attended the main issues addressed about the most important ports around the world. The YP-Com ambassadors were also able to share their experiences in several forums and conversations and they could participate in the global analysis of the convention that focused on the world economy and its implication in the port industry, among others.

7.5.2 Asia-Pacific

7.5.2.1 Australia

Co-hosting the event with Young Shipping Australia (YSA), the first networking sundowner of the Australian YP’s of PIANC took place at Helm Bar in Darling Harbour (Sydney) on Thursday 8 March 2018.

Shipping Australia is a shipping industry organisation serving to promote and advance the interests of shipowners and shipping agents in all matters of shipping policy, environmentally sustainable practices and safe ship operations.
As Rodney Hancock (YP-Com Australia Chair) said, shipping and waterborne transport infrastructure go hand in hand, so co-hosting a sundowner with YSA make a lot of sense for the PIANC YP-Com. This event supposed a great opportunity to connect with like-minded maritime industry professionals, which would hopefully yield mutual benefits.

**Networking Event – Sydney (Australia)**

### 7.5.2.2 Iran

The 2nd PIANC Iran YP-Com Technical Visit was held on September 2018 in Chabahar, Sistan and Balouchestan. The National Section decided to organise this event along with the closing ceremony for Phase 6 of Monitoring and Modelling studies of Makoran in order to get Young Professionals acquainted with the actions to be taken to achieve the requirements for port and coastal areas infrastructures by ports and the Maritime Organisation of Iran. In addition to the technical sessions, a boat-trip was carried out from the developed breakwaters of Shahid Beheshti Port and there were explanations about the project itself.

### 7.5.2.3 Japan

The Japanese YP’s of PIANC made a couple of technical visits during the year.

The first of these technical visits was to the Yanba Dam project. The dam project began in 1947, with completion planned for 2015. However, delays meant it would be finally completed in 2019. The Yanba Dam rises 116 m and the gross capacity of the reservoir is 107.5 million cubic metres. The group was overwhelmed by its size, which, as dam construction decreases in Japan, is said to be the last large dam in this century.

The second technical visit took place in the Naha City, in the Okinawa Prefecture. The YP’s visited and observed Naha Airport, where the second runway was being reclaimed and constructed, International Ferry Terminal, International Container Terminal and a newly-built seaside road, expected to be completed and useful from the end of next year.
7.5.2.4 The Philippines

The 1st meeting in 2018 of the officers of PIANC Philippine YP’s took place on 31 January 2018. On the agenda of the meeting was the action plan of PIANC YP-Com for the year 2018, including the celebration of a local event (seminar) in July 2018 and the composition of the new set of officers for 2018.

7.5.2.5 South Korea

The 3rd PIANC YP-Com Asia-Pacific Seminar was held in Korea on 29 October-1 November 2018. A YP-Com workshop was held on 31 October at the Busan International Passenger Terminal, Busan Port. The workshop focused on the challenges faced by YP-Com sections in the Asia-Pacific region with a focus on achieving the YP-Com goals outlined in the Draft YP-Com action plan 2019-2023 and potential solutions.

The delegates were first split into respective countries (or groups where attendees were low) to identify these challenges. They then were reorganised into multi-national groups and considered the issues faced by 2-3 countries and potential solutions. This way, learning from other countries could be shared or alternative thinking brought to solve challenges. The workshop was facilitated by Mr Andrew Thomas (YP-Com Chair), Dr Tom Shand (YP-Com Vice-Chair – Asia-Pacific Region) and Mr Louis Van Schel (Honorary Secretary-General, PIANC International).

Visits to the Korean Institute of Ocean Science and Technology and the Korea National Maritime Museum were carried out in addition to the boat tour across the Busan and New Port, the technical sessions and several networking events between the YP’s.
7.5.2.6 Vietnam

On 18 December 2018, the Vietnamese YP’s of PIANC had their first networking session in Ho Chi Minh City. The event started with a presentation about PIANC and the YP-Com whereby the participants learned about how it would benefit them to join the PIANC Community and continued with two technical sessions about port planning through a case study regarding port lay-out arrangement and vessel navigation requirements and the aids to navigation modernisation in the Ganh Rai Bay.

7.5.3 Europe-Africa

7.5.3.1 Belgium

Before the YP-Com meeting in the Belgium, a few members of the commission joined the World Port Centre on 29 January at the headquarters of Port of Rotterdam, followed by a visit to Futureland in Maasvlakte 2, where they sailed through the port complex in the afternoon. After the sailing technical visit, YP-Com also visited Maeslant Storm Surge Barrier in Rotterdam. At the end, like every year, YP-Com could hold its first meeting of the entering year during the at the PIANC headquarters in Brussels, Belgium.
In May 2018, the Belgian Section of PIANC YP-Com visited the renovation of two quays in the Port of Antwerp: Herbouvillekaai & Ledeganckkaai. The scope of works included breaking down until 10 m below the low tidal level by means of explosives of one of those and then rebuilding a new quay wall – a combined wall – at the exact same location. Most part of the activities involved were ongoing at the moment of the site visit. The group of YP’s was first given a presentation in which the works were explained and after that, a site tour was organised ending the day with a networking dinner.

7.5.3.2 The Netherlands

As one of the most active National Sections, several events were celebrated during this year in the Netherlands.

Firstly, in February 2018, Young PIANC Netherlands organised their annual ‘Working Group Evening’ in a bar in Delft with the purpose of motivating and inspiring Young Professionals to join a Working Group, next to a nice evening with networking opportunities and allowing Young Professionals that were active in a Working Group to share their experiences.

Secondly, the Dutch YPs of PIANC, together with the YPs of CEDA, organised a successful technical visit (more than 100 attendees) to the new sea lock at Ijmuiden in March 2018. The excursion started with a boat tour along the construction site while various project members explained the construction phases of the new lock and finished with an evening event at the Thalia Theater in Ijmuiden with three presentations focused on the different activities in this logistically challenging project and the design and construction of the rolling gates.
Later during the year, the Dutch YP’s of PIANC organised an excursion to the Heijplaat area in the Port of Rotterdam. With 25 participants from all over the Netherlands and Belgium and an inspiring programme, it was a day to remember.

The excursion started with a boat trip on the KRVE 71 to the KRVE office and shipyard. After a presentation of the company, the YP’s were given a tour along the KRVE shipyard and testing facilities. The tour ended with a boat trip to the RDM campus where a visit to the campus and start-up area were done. The day ended with drinks, ‘bitterballs’ and conversations in the famous port café Courzand.

To conclude, in November 2018, Young PIANC Netherlands organised a Pitch Style Event as the last YP-Com event of the year in the region. Presentations were fast and furious with strict rules: 20 slides of each 20 seconds. A timer was counting down the seconds and most presenters stayed within time after catching a few breaths between slides. The event was a great success and would likely be introduced as a fixed annual event. It was a dynamic way of gaining insight in innovative and/or large projects throughout the industry.

7.5.3.3 South Africa

The South African Section of PIANC YP-Com & SAICE Marine hosted the 1st African Seminar on a range of coastal engineering related topics presented by Young Professionals on 30 and 31 August 2018. The success of the event was made possible with the support from Stellenbosch University Coastal Engineering Short Course, Transnet National Ports Authority, private consulting and construction companies. It was the first for PIANC and SAICE and was a great success with almost 130 participants from other parts of South Africa and neighbouring countries. The theme of the event was ‘Networking with People and Raising Awareness of the Marine Environment’.
7.5.3.4 Spain

The Spanish YP-Section of PIANC celebrated its 15th anniversary with a three-day Congress in Santa Cruz de Tenerife (Canary Islands) in May 2018, being a challenge for the Association, not only because of the logistics in terms of travel and transportation (Santa Cruz is located more than 2,000 km from the centre of the Iberian Peninsula), but also for organising the Spanish YP-Section event of PIANC (ATPYC) for the first time on the islands. The Congress was a complete success for ATPYC with more than 80 attendees.

This event covered presentations of more than 20 papers on ports and coastal developments, a technical visit to the recently inaugurated vertical breakwater of the Port of Granadilla (south side of Tenerife) made with reinforced concrete caissons, a well-known technology improved by Spanish engineering, construction companies and administrations and a visit to the town of San Cristóbal de La Laguna.

Later, in October 2018, an international networking event was held for the PIANC Young Professionals in Seville, Spain. The YP-delegations of Spain, France and Italy were the organisers of this event, sponsored by the company ShibataFenderTeam, which was finally attended by 40 people. People from port authorities, marine contractors and engineering and consultancy companies gathered to enjoy that wonderful evening.

This event has served to demonstrate once again that it does not matter which company you belong to, nor the sector in which you operate. What really matters, is the companionship and those good moments like this that will remain in your memory throughout your professional career.
7.5.3.5 United Kingdom

In September 2018, the British YP’s held their annual seminar in London in which 6 YP’s presented on topics of their choice. The event, as always, was well attended with a total of 78 recording attendance, alongside being broadcasted online. The seminar was followed by a drinks reception at One Great George Street where YP’s met and networked with like-minded professionals. All presenters did extremely well and provided very interesting talks, and I received many comments about their work on the evening. This event will hopefully be repeated twice next year due to its popularity.

7.6 Thank and Farewell

Last but not least, we would like to take this opportunity to thank a number of Young Professionals in this section. 2018 has been a year of goodbyes of some wonderful personalities having helped build and shape the YP-Com as to what it is today.

Firstly, Pablo Arecco, THANK YOU for all your work, energy and enthusiasm – YP-Com would not have been the same without you and we hope to see much more of you in the future of PIANC, of course always with an eye on YP-Com. We know you must look back over the past six years and remember what it was like to be thrust into the helm of the YP-Com ship in some of its earliest days. Just look at what we have achieved between then and now – it is an enormous accomplishment! You were the face and the voice of YP-Com, and we all look forward (with great interest) in what you will achieve next. You are an industry leader, a great colleague and proponent of YP’s from all walks of life, but most of all…you are a great friend!

Secondly, Hidenori Takahashi, thank you for having such a great impact for YP’s in the Asia-Pacific region and the world round. We are sad you have outgrown the YP-generation but hope to work with you in the future, and we will definitely benefit from your legacy! You have always been one of our greatest advisors, a loyal proponent of YP-Com and a great friend!

Thirdly, a million thanks to Ines Alvarez, a great friend and former YP-Com Secretary who has contributed to the Commission in ways we cannot possibly do justice for in this Yearbook – but we can try – your genuine interest in all of us, your expeditious input to ‘Sailing Ahead’ Newsletters, and for keeping all those passports primed and ready to support YP-Com! You will certainly be missed.
Lastly, we want to thank Nahuel Bonfante, who has done great things – always with a smile – as a Vice-Chair Supporter for the Americas. You are a true success story of the YP-exchange programme and we hope to see you back in the waterborne transport infrastructure industry sometime soon!

To all of those who have been part of the YP-Com team, or sometimes thought of as YP-Com Family – we say thank you and hope to see each other again in 2019!!

We could easily belabour this much longer, so let us close with this: we will miss you all during our Commission meetings, but this most certainly is not us saying ‘goodbye’. Rather, congratulations on fulfilling your appointments and for all the great successes you helped achieve during your time in YP-Com. We sincerely hope you enjoy this newfound free time with your friends and loved ones. Cheers, and see you around the corner!

Andrew Thomas  
Chairman of PIANC YP-Com

Esie Vrolijk  
Co-Chair of PIANC YP-Com

Rodrigo Moltó  
Secretary of PIANC YP-Com