COMMISSIONS
# TABLE OF CONTENTS

1 Report of the Financial Commission (FinCom) 2017

1.1 Members

- Ian White (UK) Chairman
- Herbert Smitz (Belgium) Secretary
- Joe Mantey (US)
- Neil Lawson (Australia)
- Johan Boon (the Netherlands)
- Remi Van der Wijk (the Netherlands)
- Manuel Arana Burgos (Spain)
- Jan Reche (Germany)
- Jacques Paul (France)
- Xavier Laloum (Colombia)
- Louis Van Schel (Belgium) (PIANC Secretary-General until the AGA 2017)
- Geert Van Cappellen (Belgium) (PIANC Secretary-General since the AGA 2017)

The Commission met twice over the past year 2017, both with a limited attendance due to travelling aspects, with its first meeting being held alongside the AGA 2017 in Cairns (Australia) on 18 June. The second meeting was held in Pittsburgh (USA) on 15 September in conjunction with the PIANC-SMART Rivers Conference.

Geert Van Cappellen, the new Secretary-General of PIANC since the AGA 2017 in Cairns, also attended both meetings.

During both meetings, a thorough discussion on the portfolio and Art. 27 of the Rules and Regulations took place. The portfolio mainly exists of governmental bonds. This involves risks because members of FinCom expect a downturn in this market in the future. Also, the costs of the management of the portfolio requires attention as they may have impact on our long-term growth in bank products income. FinCom hopes to finalise the portfolio review and Art. 27 revision by 2018 to be agreed for recommendation to both ExCom and the AGA.

FinCom also took a closer look at the results of the PIANC events already organised: in Rio de Janeiro, Brazil, in October 2016 (PIANC-COPEDEC IX), and in Brussels, Belgium, in March 2017 (‘Navigating a Changing Climate Conference’), and at that time the upcoming Workshop on InCom WG 154, in Brussels, Belgium, in November 2017, as well as the budget plan of this year’s PIANC World Congress in Panama.

Discussions took place on the budget and actual income, and what lessons can be learnt especially after the financial setback of the Navigating a Changing Climate conference.
FinCom proposes to base the budget for a congress, seminar or any other activity on a solid and not too optimistic basis, so that the result of the event meets realistic expectations.

As a continuing mission, FinCom analysed the budget 2017, the business plan 2018-2020 and PIANC membership, as well as the evaluation of the figures of all publications sold/downloaded as from 2014 onwards, which affects the PIANC income. PIANC also has an agreement with Knovel (Elsevier). For each PIANC Working Group report sold electronically by Knovel, PIANC obtains a royalty. Unfortunately, PIANC is not informed of who has purchased this report.

The core business of PIANC is the preparation of reports. Future members of PIANC can be recruited by the spread of our Working Group reports, and by extending the network of existing members through personal contacts. FinCom believes that with this Knovel system, we are not on the right track to recruit new members.

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>
<thead>
<tr>
<th>Receipts (€)</th>
<th>Actual</th>
<th>Budget</th>
<th>Variance = Actual - Budget</th>
</tr>
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<tbody>
<tr>
<td>Congresses and Seminars</td>
<td>€108,403</td>
<td>€120,000</td>
<td>-€11,597</td>
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<tr>
<td>Contributions (Subs.)</td>
<td>€325,761</td>
<td>€311,100</td>
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<td>Subventions</td>
<td>€163,400</td>
<td>€169,575</td>
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<td>Platinum Partners</td>
<td>€42,500</td>
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<td>€5,000</td>
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<td>Sales</td>
<td>€17,298</td>
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<td>Financial income</td>
<td>€36,663</td>
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<tr>
<td>Other income</td>
<td>€21,549</td>
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<td>-€3,451</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>€715,574</strong></td>
<td><strong>€728,175</strong></td>
<td><strong>-€12,601</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditure (€)</th>
<th>Actual</th>
<th>Budget</th>
<th>Variance = Actual - Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congresses and Seminars</td>
<td>€106,061</td>
<td>€120,000</td>
<td>-€13,938</td>
</tr>
<tr>
<td>Commissions</td>
<td>24,629</td>
<td>€25,000</td>
<td>-€371</td>
</tr>
<tr>
<td>Yearbook print and mail</td>
<td>26,251</td>
<td>€20,000</td>
<td>€6,251</td>
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<tr>
<td>Headquarters</td>
<td>€452,187</td>
<td>€476,700</td>
<td>-€24,513</td>
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<tr>
<td>Financial charges, taxes etc.</td>
<td>41,340</td>
<td>€49,000</td>
<td>-€7,660</td>
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<tr>
<td><strong>Total Expenditure</strong></td>
<td><strong>€650,468</strong></td>
<td><strong>€690,700</strong></td>
<td><strong>-€40,231</strong></td>
</tr>
</tbody>
</table>

| Surplus (€)           | €65,105 | €37,475 | €27,630    |

*Table 1: Summary of the financial results 2017*

The financial affairs of PIANC have continued to do reasonably well, especially as a much higher operating surplus of €65,105.39 was made in 2017 compared with only €2,387 in 2016. This was mainly due to the accuracy with which the subventions and contributions were estimated in the 2017 budget and the late full payment from the PIANC-COPEDEC Conference in 2016.

Income from subscriptions on the one hand (€325,761 [2017], < €342,401 [2016] > €324,744 [2015]) decreased in 2017 compared to 2016, but increased slightly since 2015, otherwise subventions increased firmly related to 2016, and decreased slightly related to 2015 (€163,400 [2017] > €130,150 [2016]) < €168,250 [2015]). The expenditure side of the budget plan was strongly influenced by the funding for the ‘Navigating a Changing Climate’ Conference, which needed an extra input of €10,000 on the budget during the past year, and the contract concerning the layout and management of the new PIANC website, during the past year 2017.
Sales of Working Group reports produced an income of only € 17,298, not including € 1,303 Knovel royalties (which have been paid in January 2018), but unfortunately under the original budget by € 2,702, a relapse regarded the sales for 2015 of € 20,737 and 2016 of € 29,857.

The costs for the publication and mailing of the Yearbook stabilised around € 26,251 this year, not compensated by any extra profit due to the sponsorship and advertising income. Since printing and mailing cost will not decrease, it is best to adjust the budget estimation of these expenses in the coming years, as well as a worldwide action concerning advertising and sponsorship support.

The value of the PIANC portfolio was € 835,561 at the end of 2017, which is a clear increase over the previous year of € 19,386. Moreover, the interest rate earned per annum on the portfolio increased to 2.38 % compared to a previous interest rate of 0.94 % in 2016. Much of this increase can probably be attributed to a better general global economic climate.

The number of international events that PIANC is organising or hosting is increasing with 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 item, although some major but authorised expenditure costs (‘Navigating a Changing Climate’ and BUBKA) were incurred during the year, a large surplus of € 65,105 was generated to be added to the reserves of PIANC! This result may seem a bit too optimistic, because significant costs for the new website will be passed to 2018.

The membership level has decreased in 2017 with 26 Individual Members, a decrease of 2.2 % in 2016. The decrease in Corporate Members with 6 organisations, or 1.3 % in percentage terms, needs our special attention. Happily, we note a rise in Student, Life and Honorary Members, but those have a minor influence on the PIANC financial income.

<table>
<thead>
<tr>
<th>Date</th>
<th>31 Dec 2017</th>
<th>31 Dec 2016</th>
<th>Evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Members</td>
<td>1,593</td>
<td>1,629</td>
<td>-36</td>
</tr>
<tr>
<td>Corporate Members</td>
<td>446</td>
<td>452</td>
<td>-6</td>
</tr>
<tr>
<td>Student/Life/Honorary</td>
<td>165</td>
<td>149</td>
<td>16</td>
</tr>
<tr>
<td>Total</td>
<td>2,204</td>
<td>2,230</td>
<td>-26</td>
</tr>
</tbody>
</table>

Table 2: Development of PIANC Membership 2016-2017

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.

In conclusion, contributions 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 Group 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.
On the expenditure side, the major costs for the headquarters, including salaries, 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.

This previous action would help with the cash flow and budgeting of PIANC and would allow the head office team at Brussels to spend more time in giving a productive service to the National Sections and not to have to be continuously asking for up-to-date information and chasing late payments.

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, both by FinCom and ExCom.

Yours sincerely

Ian White
Chairman of FinCom

Herbert Smitz
Secretary of FinCom
2 Report of the Maritime Commission (MarCom) 2017

2.1 General

After several years with many publications, 2017 has been a transition year. Once finished some delayed Working Groups with remarkable efforts from the Chairmen and MarCom mentors, one report was finished in 2017. Therefore, MarCom has a shorter portfolio of ongoing Working Groups and is able to undertake new tasks under a strategic vision. 2017 has been a very productive year for MarCom, in pushing ahead the ongoing Working Groups, analysing new topics to be addressed and discussing on new tasks in order to provide responses to the technical needs of PIANC members and our sector in general.

The publication of WG 144 – ‘Classification of Soils and Rocks for the Maritime Dredging Process’ Field Guide is a new experience. It is an abridged document based on the original report ready to be used on site by engineers, geologists and other technicians for fieldwork.

There are 15 Working Groups active and 1 in formation, some of the former quite close to publication, including the Joint InCom-MarCom WG 199 – ‘Health Monitoring for Port and Waterway Structures’.

Following the intention of improving Working Groups and reports, as an important part of Action Plan 2014-2018, new efforts were addressed to provide PIANC with an updated catalogue of reports on the website. A systematic analysis of the list of Working Groups is being undertaken, classifying them in:

- Updated reports
- Reports that need an update
- Partially superseded reports
- Fully superseded reports

This will help PIANC in keeping an updated relevant portfolio of Working Groups on the website.

The results of this continued action are:

- Proposals for new Working Groups dedicated to updating available reports if considered convenient. This is the case of several new Terms of Reference under discussion.
- Update of recent reports with an extended scope, in order to integrate recent developments and also cover topics already in partially superseded reports that will become fully superseded once the new ones finish their tasks. This is the case of already ongoing Working Groups:
  - Update of WG 153 – ‘Recommendations for the Design of Marine Oil Terminals’ that will also integrate the part of LNG terminals not addressed by WG 172 and likely change its title.
  - Update of WG 180 – ‘Guidelines for Protecting Berthing Structures from Scour Caused by Ships’ that will integrate the topics under the scope of WG 22-1997, dedicated to design of armoured slopes under open piled quay walls.
- Diagnosis of obsolete or fully superseded reports that PIANC will upload in a specific area of the website.

Five Terms of Reference were approved during 2017.

2.2 Meetings

In 2017, MarCom organised two Commission meetings:

- Brussels (Belgium), 31 January and 1 February, with an interesting content with draft ToR for new Working Groups.
- Calais (France), 11-12 September, hosted by the French National Section and Calais Port and Region Nord-Pas de Calais. The meeting included a technical visit to the Port of Calais enlargement works, including a presentation from Region Haut-de-France and contractor representatives.
2.3 MarCom Membership

- 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 Lundestrand (Norway)
- Luc Van Damme (Belgium)
- Yoshiaki Higuchi (Japan)
- Olivier Piet (France)
- Ron E. Heffron (Australia)
- Rafael Escutia (Spain)
- Mattias Sandell (Sweden)
- Peter Fountain (Australia)
- Mohammad Reza Allahyar (Iran)
- IKsoon Cho (Korea)
- Héctor Escobar (Colombia)
- Carlos Gines (Argentina)
- Guzman (Philippines)
- Simo Kerkelä (Finland)
- Richard Styles (USA), Alternate Member
- Scott William Keane (Australia), Alternate Member
- Juan Francisco Herrera (Colombia), Alternate Member
- Marcelo Peyregne (Argentina), Alternate Member
- Reynand C. Parafina (the Philippines), Alternate Member
- Babak Banijamali (Iran), Alternate Member

- Kim Andersson-Berlin (Finland), Young Professional
- Hadewych Verhaeghe (Belgium), Young Professional
- Christopher Thomas (USA), Young Professional
- Santiago Povedano Marcos (Spain), Young Professional
- Christopher H. Ornun (the Philippines), Young Professional
- Michael Grace (UK), Young Professional
- Ed Backlund (USA), Young Professional Observer

In 2017, there have been a few changes regarding the MarCom membership.

Mr F.M.J. Van de Laar (Member from IAPH) leaves MarCom after fruitful years of participation. MarCom congratulates him for his retirement and highlights his technical and personal value added to the Commission.

YP-Com Observer José A. Aldunate resigns from MarCom due to his implication in creating a Young Professional National Section in Chile. YP-Com has designated Ed Backlund (USA) as new observer.

Seppo Virtanen (Finish Member) leaves MarCom after having been assigned new responsibilities within his company.

Héctor Escobar replaces Gerardo Castaño as Colombian member.

The UK National Section designates Michael Grace as new Young Professional.

MarCom appreciates the work done by our departing members and welcomes the new ones.
In December 2017, MarCom counted 34 members, amongst them one Chairman, seven Alternate Members, seven Young Professionals and one of them YP-Com Observer. 18 National Sections are represented in MarCom.

2.4 Presentations

2.4.1 February Meeting

Mr Nick Pansic gave an update on the objectives of Task Force 181 – ‘State and Perspective of Waterborne Transport Infrastructure Worldwide’. After several first attempts of getting information for different countries, they have decided to give the report a strategy focus.

2.4.2 September Meeting

No presentations were showed in the September meeting.

2.5 Publications

In 2017, one MarCom Working Group Report was published by PIANC.

PIANC MarCom WG 144 – ‘Classification of Soils and Rocks for the Maritime Dredging Process’ – Field Guide

(Chairman: Mr Lucien Halleuxh)

The field version briefly summarises the content of the main report and includes the tables and templates which are of direct use for the classification, it has been thought as an abridged version, for field use. The field guide will be a helpful document for geo-technicians and geologists working on-site. PIANC decided to offer the report for free on the PIANC website, in order to show the interest of the topics addressed by our Association and the quality of the work done.

2.5.1 Progress of MarCom Working Groups

This section summarises the status of ongoing MarCom Working Groups.

- **WG 145 – ‘Berthing Velocities and Fender Design’**
  After some amendments proposed by MarCom to the draft report, publication is expected for 2018.

- **WG 159 – ‘Renewables and Energy Efficiency for Maritime Ports’**
  The draft report will be presented early 2018 and publication is expected for the end of the year.
2.5.2 Approved Terms of Reference

The following Terms of Reference were approved in 2017:

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

- **WG 200** – ‘Recommendations for the Design and Assessment of Marine Single Point Mooring (SPM) or Multi-Point Mooring (MPM) Facilities’
  After nomination of the Chairman, the kick-off meeting took place in January 2018.

- **WG 153** – ‘Update to ‘Recommendations for the Design of Marine Oil Terminals’
  Most of the WG 153 members will keep on working to develop an updated release of WG 153, covering topics about LNG Terminals not included in the scope of WG 172.

- **WG 205** – ‘Design and Construction of Breakwaters on Soft Seabeds’
  Setting-up process has started at the end of 2017.
2.5.3 Terms of Reference in Discussion Expected to be Submitted to ExCom in 2018

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

- Continuation of the series on Port Terminals:
  - Multipurpose terminals
  - Automation of container terminals

- Update of existing reports:
  - Update of WG 34 – ‘Seismic Design for Port Structures’: this update has been delayed expecting the upcoming publication of the new Japanese Standard and a relevant ASCE document
  - Update of WG 15-1998 on ‘Ship Repair Facilities’
  - Update of WG 25-1995 on ‘Criteria for Allowable Movements of Moored Ships at Berths’

- New topic:
  - Post-extreme event inspection

Additionally, InCom and MarCom are discussing about setting a new joint Working Group on Ship Collisions due to the presence of bridges that will update InCom WG Report 19-2001.

2.5.4 Co-Operation with Other Commissions

MarCom has correspondent 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.

RecCom shared the draft report of WG 182, to be reviewed by the MarCom members.

2.5.5 WGs Guidance and Governance

The following items have been approved by ExCom and shared with MarCom WGs:

- Helpful hints for PIANC Working Groups and flowcharts
- Template for WG-reports

MarCom continues to review published WG-reports, in order to identify obsolete, superseded or needing for updating reports.

2.6 MarCom Technical Visits

2.6.1 Site Port of Calais

Region Haut-de-France and contractor representatives gave a presentation on the Port of Calais enlargement and a visit to construction works was offered to the MarCom members.

This visit was very interesting, with a good review of construction methods and breakwater design.
MarCom during its September meeting

MarCom during the visit to the Port of Calais

In 2017, the Inland Navigation Commission (InCom) was focused on the promotion of inland navigation, with special attention to the work of current Working Groups and promotion of published reports.


In November, two workshops, in Brussels and Paris, were organised on Mitre Gate Design (WG 154).

In addition, three reports were published, three new WGs have been launched, and two new representatives from Colombia and Iran joined InCom.

3.1 Commission Membership

In 2017, two new countries appointed their experts to InCom:

- Colombia: Mr Fabio Zapata
- Iran: Mr Reza Safari
- The South Korean Section has a new representative in InCom, Mr Choonghyo Lee replaced Mr Seung-Woo Kim.
- The US Section informed us that Mr Craig Philip stepped down from his position as US Principal Representative, and this position is now taken by Mr José Sánchez. The new Alternate Member is now Mr Brian Tetreault. We would like to thank Mr Philip for his valuable work for InCom and PIANC.
- The French Section introduced a new member in InCom, Mr Fabrice Daly.

At the end of 2017, 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))
- Jim Athanasiou (Canada)
- Wu Peng (China)
- Fabio Zapata (Colombia)
- Tero Sikiö (Finland)
- Benoit Deleu (France)
- Fabrice Daly (France)
- Holger Schüttrumpf (Germany)
- Reza Safari (Iran)
- Takahiro Sugano (Japan)
- Choonghyo Lee (South Korea)
- Otto Koedijk (the Netherlands)
- Ricardo Miguel Obregón Montes (Peru)
- Ljubisa Mihajlovic (Serbia)
- Ignacio Sanchidrián Vidal (Spain)
• Rodrigo Garcia 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 official meetings in 2017:

• Meeting N°76, held on 31 January-1 February in Harelbeke and Brussels (Belgium)
• Meeting N°77, held on 9 May in Brussels (Belgium)
• Meeting N°78, held on 17-18 September in Pittsburgh (USA)

The main subjects of meetings were:

• Information on the activities of the Association
• Update on the progress made by various Working Groups
• Preparation of Terms of Reference for new Working Groups
• Preparation and participation at workshops and conferences

Meeting N°76, was held in Harelbeke and Brussels, including the technical visit to the construction site of the new/larger lock in this city, which will be part of the future Seine-Scheldt Canal. The trip was a joint venture between InCom and WG 192. The visit was organised by Waterwegen en Zeekanaal NV and InCom would like to thank our hosts for organising this very interesting and educational visit.

Meeting N°78 was held in September, in Pittsburgh, PA, USA, during the PIANC-SMART ’17 Conference, at the Sheraton at Station Square Hotel, on the bank of the Monongahela River.

3.3 Published Reports

In 2017, three InCom reports were published:

• InCom WG 154 – ‘Mitre Gate Design and Operation’
• InCom WG 156 – ‘E-Navigation for Inland Waterways 2017’
• InCom WG 173 – ‘Movable Bridges and Rolling Gates’
InCom would like to thank all members, corresponding members, and chairmen for their effort in preparation great reports.

### 3.4 PROGRESS OF EXISTING WORKING GROUPS

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

  In a previous period, this Working Group had a special work meeting in Rotterdam to discuss special topics on the RIS guidelines 2018, as there are: globalisation of the guidelines; the question whether there are new RIS Services, integration of RIS enabled Corridor Management; inclusion of the developments of e-Navigation in the RIS guidelines; consideration on the consequences of ITS developments in regard with the RIS Guidelines 2018. The plan is to have a draft report by October 2018.

- **WG 128 – ‘Alternative Technical-Biological Bank Protection Methods for Inland Waterways’**  
  **Chair:** Bernhard Söhgeng

  The latest (seventh) meeting was held in October, in Berlin, Germany where content of the fact files and the assessment scheme of the Best Practice Approach were discussed. It was planned to produce as many fact files, including the assessment of the sustainability of the documented measures as possible.

- **WG 141 – ‘Design Guidelines for Inland Waterways’**  
  **Chair:** Bernhard Söhgeng

  WG submitted the latest draft of the report to InCom in August. It is expected to have a final version of the report in the first quarter of 2018.

- **WG 166 – ‘Inflatable Structures in Hydraulic Engineering’**  
  **Chair:** Michael Gebhardt

  The final draft of the report was submitted to PIANC HQ in January 2018.
• WG 179 – ‘How to Deal with New Ships in the CEMT ’92 Classification – Towards a New CEMT (ITF) Classification’  
  Chair: Ivo ten Broeke

The latest meeting of this WG was held in September in Brussels, and the first draft of the report is expected to be submitted for the review in the first quarter of 2018.

• WG 189 – ‘Fatigue of Hydraulic Steel Structures: Design, Analysis, Assessment, and Maintenance’  
  Chair: Dirk Jan Peters

The latest meeting was held in the Netherlands, in November. The plan is to have the finalised first draft of the report in 2018.

• WG 190 – ‘Corrosion Protection of Lock Equipment’  
  Chair: Rebekah Wilson

The kick-off meeting for this WG was held in March in Brussels. The Table of Contents were set up, and responsibilities for each member were defined.

• WG 191 – ‘Use of Composites on Hydraulic Structures’  
  Chair: Hota Ranga Rao

The Chairman attended the InCom meeting in Pittsburgh and presented the progress of this WG to the InCom members. The latest meeting took place in October, in Hangzhou, China, during the 3rd China International Congress on Composite Materials.

• WG 192 – ‘Automatisation of Locks and Bridges, Remote Operations, Self-Usage, Network Security’  
  Chair: Lieven Dejonckheere

This WG had 3 meetings in 2017 and is currently gathering information on best practices and technical developments in different countries. During the PIANC-SMART Rivers ‘17 Conference in Pittsburgh, the WG presented the brochure, which was very well received by the participants.

• WG 197 – ‘Small Hydropower Plant in Waterways’  
  Chair: Nicholas Crosby

The first meeting was held in June, in Brussels and Mr Nicholas Crosby was appointed as chairman. The outline of the report was defined, and a website was created for easier exchange of information. The second meeting was held in October.

• WG 198: ‘Saltwater Intrusion Mitigations and Technologies for Inland Waterways’  
  Chair: Tom O’Mahoney

This Working Group met for the first time in Brussels on 20 June 2017, and Tom O’Mahoney was elected as a chairman. A draft Table of Contents was formed. Salt intrusion is a broad topic with many different stakeholders and the report will concentrate on issues relevant for shipping on inland waterways. The report will cover measurement, modelling and mitigating of salt Intrusion. An important distinction will be made between salt intrusion in open estuaries and canalised systems enclosed by navigation locks.

• WG 199: ‘Health Monitoring for Port and Waterway Structures’  
  Chair: Mathew Smith

The kick-off meeting was held in Brussels, in November, with 18 members participating in the meeting.

• WG 201: ‘Development of a Proposal of Inland Waterway Classification for South America’  
  Chair: Azhar Jamurzina, Philippe Rigo

The kick-off meeting was held in Pittsburgh, during the PIANC-SMART Rivers ‘17 Conference. A survey was launched. The first interim report was expected in December 2017 and the preliminary methodology is to be presented in May 2018 at the PIANC Congress in Panama.
• **WG 203: ‘Sustainable Inland Waterways – A Guide for Waterways Managers on Social and Environmental Impacts’**

  *Chair: Andreas Dohms*

  The Terms of Reference for this Working Group were accepted during the AGA in June, and the kick-off was planned for February 2018.

### 3.5 InCom Website

The InCom website is constantly growing, and is being used for promotion of inland navigation, and providing information relevant information to users. It consists of two parts, one public part, and another part dedicated only to the InCom members. On the public part of the site, visitors can find detailed information on the progress of InCom Working Groups, as well as information on events in which InCom is participating or organising. More information can be found at the InCom website at [http://incomnews.org](http://incomnews.org).

![InCom website](image)

### 3.6 Conclusion

The year 2017 was the year of the PIANC-SMART Rivers ’17 Conference, which was held at the Sheraton at Station Square Hotel in Pittsburgh, PA, USA, very close to the confluence of three rivers: Monongahela, Allegheny and Ohio. The Conference was a great opportunity for the exchange of ideas, and newest developments in the field of inland navigation, and a place for InCom to present its activities.

InCom membership has increased by the welcoming of new professionals from different countries, regions and with a variety of expertise. This fact has contributed to the enrichment of discussions and knowledge interchange.

![Frontpage of the WG 192 Brochure](image)
4 Report of the Environmental Commission (EnviCom) 2017

4.1 Introduction

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

4.1.1 Members

33 members from 16 nations (Australia, Belgium, Colombia, Spain, Finland, France, Germany, India, Ireland, Japan, Korea, the Netherlands, Norway, the Philippines, UK, USA) and 7 partner organisations (CCNR, CEDA, EUDA, IADC, IAPH, INE, Ports Australia).
Chairman: Todd Bridges (USA)
Secretary: Edward Brauer (YP, USA)

Country members:
- Marika Calfas (Australia)
- Filip Vandeputte, Siegfried D’Haene (Belgium)
- Ricardo Schmalbach (Colombia)
- Olli Holm (Finland)
- Paul Scherrer (France)
- Elmar Fuchs (Germany)
- R.D. Tripathi (India)
- Nasser Hadjizadeh (Iran)
- Masahiko Fukami (Japan)
- Tiedo Vellinga (the Netherlands)
- Anne Kibsgaard, Arne Petterson (Norway)
- Reynand Parafina, Christopher Ornum (YP) (the Philippines)
- Myounghak Oh (South Korea)
- Rócio López Picón, Aina García Gómez (YP) (Spain)
- Jan Brooke (UK)
- Burton Suedel, Victor Magar, Sandra Brasfield Newell (YP) (USA)

Commission representatives:
- Ron Cox (Australia) (CoCom)

Members from partner organisations:
- IAPH: Kris De Craene, Eric De Deckere, Greet Bernaers
- IADC: René Kolman
- CEDA: Anna Csíti, Frederik Roose
- EUDA Paris Sansoglou
- CCNR: Kai Kempmann, Gernot Pauli
- INE: Karin De Schepper

Additionally, the following experts acted as Chairpersons of Working Groups and attended EnviCom meetings in 2016:
- PTG CC: Todd Bridges/Chair, Sandra Brasfield Newell/Secretary (USA)
- PTG EU WFD Navi TG Jan Brooke (UK)
- WwN Jury Elmar Fuchs (Germany)
- WG 157: James Matt Jury (IADC)
- WG 170: Chris McDougall (UK)
- WG 174: Kris De Craene (IAPH)
- WG 175: Burton Suedel (USA)
- WG 176: Victor Magar (USA) since November 2016
- WG 178: Charles Haine (UK)
- WG 188: Doug Daugherty (USA)
- TG 193: Julie Rosati (USA)

4.2 Meetings

EnviCom held two face-to-face meetings in 2017.

Meeting N°46 took place in Brussels, Belgium, hosted by PIANC Headquarters, on 31 January-1 February 2017 in conjunction with the 16th meeting of the Permanent Task Group on Climate Change (PTG CC) on 30 January 2017. Our winter meeting was attended by 21 members from 10 countries and partner organisations.
EnviCom was represented at the PIANC AGA in Cairns, Australia on 17-20 June 2017 by Harald Köthe (outgoing EnviCom Chair) and Todd Bridges (incoming EnviCom Chair). The meeting was marked by a special tribute to Harald Köthe for his more than 10 years to service and leadership as EnviCom Chair.

The 47th meeting was held in Pittsburgh, PA on 17-18 September 2018, in conjunction with the 8th International PIANC-SMART Rivers conference which was held on 18-21 September 2017. Following our business meeting of 10 members from 4 countries, EnviCom held a short course for PIANC-SMART Rivers participants entitled ‘Working with Nature in Rivers: Managing Ecosystem Services and Risks’. The short course was led by EnviCom members Todd Bridges, Burton Suedel and WG 176 Chair Victor Magar. The short course drew from activities underway within EnviCom, specifically as they relate to Working with Nature, WG 175 on Environmental Risk Management, WG 176 on Working with Nature, and WG 195 on Ecosystem Services.

4.2.1 Next Meetings in 2018:

- **30-31 January 2018 in Brussels, Belgium**, hosted by PIANC headquarters, in conjunction with PTGCC (29 January 2018)
- **Week of 15 October in Seville, Spain**, in conjunction with Mediterranean Days.

4.3 Working Groups, Technical Recommendations and Guidance

EnviCom continued its work in 2017 in the following fields:

4.3.1 Dredging

- **Working group 157 – ‘Environmental Aspects of Dredging, Port and Waterway Construction Around Coastal Plant Habitats’**.
  
  *Chair: James Matt Jury (IADC), EnviCom mentor is René Kolman.*

The work continues on this important topic, which began with a kick-off of the Working Group in 2015. A complete draft of the report is expected in mid-2018.
• **Working Group 170 – ’Dredging Operations and Port Construction around Marine Turtles and Mammals.’**
  
  *Chair: Chris McDougall, EnviCom mentor is René Kolman*

During 2017, progress continues on drafting the WG report, which will focus on best practice guidance, with supporting examples. The Working Group is planning a workshop to be held in early 2018 and to complete a draft of the report by mid-2018.

### 4.3.2 Ports

• **IAPH-PIANC WG 174 – ‘Sustainability Reporting for Ports’**
  
  *Kris de Craene (Belgium) is Chairman on behalf of IAPH and Eric de Deckere (Belgium) Secretary Tiedo Vellinga (the Netherlands) is Co-Chairman and Mentor on behalf of EnviCom*

The joint PIANC-IAPH report that will provide sector guidance is expected to be complete in the first half of 2018. The World Ports Sustainability Program, which was held on 22 and 23 March 2018 at the Antwerp Port House ([www.wpspevent.org](http://www.wpspevent.org)), will feature products of WG’s efforts.

### 4.3.3 Navigation

**WG 175 – ‘Environmental Risk Management for Navigation Infrastructure Projects’**
  
  *Chairman: Burton Suedel (USA), Co-Chair: Kevin Kane (Australia), EnviCom mentor: Todd Bridges (USA)*

The main goal is to provide a methodology to inform risk management decisions for the comprehensive range of environmental risks pertinent to navigation infrastructure. The WG has produced a complete report which is expected to be published in 2018 before the PIANC World Congress in Panama.

  
  *Chair: Victor Magar (USA), Secretary: William Coulet (UK), EnviCom mentor: Paul Scherrer (France)*

The WG, which began in 2015, was very active in 2017 and produced a complete draft of their report, which is expected to be published in 2018 before the PIANC World Congress in Panama.

**WG 195 – ‘An Introduction to Applying Ecosystem Services for Waterborne Transport Infrastructure Projects.’**
  
  *Chair: Al Confrancesco (USA), EnviCom/PTG CC mentor: Elmar Fuchs (GER)*
The Working Group (WG) composed of 15 individuals from seven countries and five sectors (mainly Waterborne Transport Infrastructure (WTI)) is developing a definition of Ecosystem Services (ES) and specifications on how to successfully apply ES in WTI projects. Methodological and technical information on ES identification, mapping, assessment and management in terms of good governance in the WTI sector are being developed. Engagement among the WG members and overall productivity of the group has been outstanding in 2017. The WG expects to have a complete draft of their report completed in advance of the PIANC World Congress in 2018.

4.3.4 Climate Change

WG 178: Working Group on climate change adaptation for maritime and inland port and navigation infrastructure
Chair: Charles Haine (UK), Secretary: Ben Hodgkin (UK), EnviCom mentor: Jan Brooke (UK)

The Working Group made progress during 2017 and met three times, formally, to discuss improvements and enhancements to the structure of the document and to progress content of the chapters and case studies. In addition, workshops were held in Brussels, hosted by ESPO, and New York, hosted by New York and New Jersey Port Authority. A complete draft of the report is expected in the first half of 2018.

WG 188: Carbon Management for Port and Navigation Infrastructure
Chair: Doug Daugherty (USA), Secretary: Talmor Meir (USA), EnviCom/PTG CC mentor: Filip Vandeputte (Belgium)

The WG will report on the technical literature related to the carbon footprint of navigation infrastructure and supporting activities, provide guidance on applying life cycle analysis and related assessment tools and techniques, and investigate opportunities for reducing atmospheric carbon dioxide through operational practices, Working with Nature, land use management, blue carbon projects, and related environmental management. The WG gave a presentation at the conference ‘Navigating a Climate Change’ in Brussels, 27-28 March 2017 in the context of mitigating climate effects. The WG was very active and productive in 2017 and anticipates a draft report in mid-2018.

TG 193 – ‘Resilience of the Maritime and Inland Waterborne Transport System (MIWTS)’
Chair: Julie Rosati (USA), EnviCom/PTG CC mentor: Todd Bridges (USA)

The WG will develop the concept of resilience as applied to navigation infrastructure in order to inform the technical commissions of PIANC on future topics and activities that are needed to make full use of the concept of resilience. The WG made good progress in 2017 and expects to complete a full draft of its report to PIANC by mid-2018.
4.4 Strategic Initiatives


Support of WwN continues to grow within the navigation sector worldwide. Several projects were submitted to PIANC by project teams around the world to have their projects considered for WwN certification and to have their projects considered for the WwN award which will be presented at the PIANC World Congress in May 2018. This award, which is presented every four years, recognises outstanding application of the WwN philosophy and approach to navigation infrastructure. EnviCom and PIANC continue to develop ideas for promoting WwN within the sector. Working with Nature is the conference theme for the Mediterranean Days conference to be held in Seville, Spain on 17-19 October 2018.

4.4.2 WwN Workshop in Cairns, Australia

Working with Nature was the theme of the PIANC Australia and the International PIANC Young Professional Committee (YP-Com) 6th Biennial Technical Visit in Cairns, Australia on 15-21 June 2017. EnviCom was well represented at the event: Tiedo Vellinga (the Netherlands) presented the keynote address on ‘Working With Nature in Ports and Waterways’; Burton Suedel (USA) presented ‘Applying Engineering With Nature in the United States’; and Marika Calfas (Australia) presented ‘Working with Nature in Australian Ports’.

Photo 6: Burton Suedel (USA) presenting at the 6th Biennial Technical Visit in Cairns, Australia where ‘Working with Nature’ was the theme

Photo 7: Paul Scherer (France) presenting a keynote talk on ‘Working with Nature’ at the Australasian Coasts and Ports Conference in June 2017, following the PIANC AGA. Working with Nature was the theme of the conference.

4.4.3 Permanent Task Group on Climate Change (PTG CC)

The emphasis of the current and planned PTG CC activities include needs for adaptation of waterborne infrastructure on climate change. Given this perspective, the PTG CC continued in 2017 developing and providing technical guidance for a sustainable waterborne transport infrastructure in ports and
waterways. This includes identifying of relevant research and development priorities, development of ToR for new Working Groups, provision of relevant information for PIANC via the homepage (http://www.pianc.org/climatechange.php) and networking with international organisations.

### 4.4.3.1 Membership

**Chairman:** Todd Bridges (USA)  
**Vice-Chairman and Secretary:** Sandra Brasfield Newell (USA)

**Country members:**
- Ron Cox (Australia)  
- Juha Schweighofer (Austria (new))  
- Kathleen Bernaert (Belgium) (RecCom)  
- Olli Holm (Finland)  
- Pierre Gaufès (France)  
- R.D. Tripathi (India)  
- Kazuhiko Honda (Japan) (new)  
- Tineke Hemenius (the Netherlands)  
- Oivind Arntsen (Norway)  
- Jan Brooke (UK)  
- Doug Daugherty, Burton Suedel, Julie Rosati (USA)

**Members from partner organisations:**
- René Kolman (IADC)  
- Gernot Pauli (CCNR)

Additionally, following experts acted as chairpersons of Working Groups and attended EnviCom meetings in 2017:
- WG 178: Charles Haine (UK)  
- WG 188: Doug Daugherty (USA)  
- TG 193: Julie Rosati (USA)

### 4.4.3.2 PTG CC Held Two Meetings in 2017.

The 16th PTG CC Meeting took place in conjunction with the EnviCom, ExCom and other Commission meetings, as usual early in the year on 30-31 January 2017 in Brussels at PIANC headquarters. We had 12 members and guests in attendance from 8 countries.

The 17th PTG CC Meeting was held in Pittsburgh, PA (USA) on 15 September 2017, in conjunction with and contributions to the 8th International PIANC-SMART Rivers Conference on 18-21 September 2017. Nine PTG CC members attended the meeting, representing Japan, UK, Australia and the USA.

### 4.4.3.3 Working Groups, Technical Recommendations and Guidance

The PTG CC continued its work in 2017 in the following fields:

**Update of TG 3 report, led by Ron Cox and Pierre Gaufès**

Following IPCC updates, the PTG CC discussed updating the previous Task Group 3 report with new information and references. This revision is near complete.

**Climate Change Adaptation for Ports and Navigation Infrastructure (WG 178)**

The aims of this Working Group are to explore the range of climate change adaptation options for maritime and inland port and navigation infrastructure; to refer to the PIANC TG 3 report on climate impacts (which is assumed to be subject to updating) indicating key regional differences as far as practicable; to collate and review other existing information on climate projections; to generate a toolbox of adaptation options including non-structural (management) as well as structural measures; to evaluate
the effectiveness of different adaptation options in typical or generic climate change scenarios; to understand and address challenges; and to provide a guidance framework for decision making. This WG is hoping to deliver a report in 2018, as the overarching methodology is now final. Also, a presentation is planned during the 2018 World Congress.

**Carbon Management for Port and Navigation Infrastructure (WG 188)**
Identifying opportunities for carbon management requires a greater understanding of the carbon sources and sinks relevant for waterborne transport. This Working Group is focused on the unique carbon contributions of – and opportunities to reduce and offset emission from – waterways navigation infrastructure development, including dredging and the beneficial use of dredged sediments. The group is including navigation-relevant case studies and report on methods to quantify and best manage navigation carbon footprints. These methodologies, lessons learnt and best practices will be broadly relevant to the international PIANC community. This WG anticipates completion of a draft report in 2018.

**Resilience of the Maritime and Inland Waterborne Transport System (MIWTS) (TG 193)**
The Task Group is targeted specifically at resilience of the Maritime and Inland Waterborne Transportation System, with recognition of interactions with the multi-modal transportation sector, at the regional and international level in the short-, medium-, and long-term. The scope of the TG extends to all aspects of maritime, estuarine and inland port and waterway operations and infrastructure, as these interact with broader multi-modal activities. It covers a range of day-to-day activities and long-range planning such as the management, operation and maintenance of infrastructure; dredging and placement of dredged sediments; navigation; and engineering. It also considers possible implications for the design and construction of new development projects and reflects on interdependencies with the multi-modal system that accesses the MIWTS. This group had ambitious schedule for completion and the draft report is currently in review.

**Perspectives from other Commissions**
Representatives from MarCom and RecCom attended the winter meeting in Brussels and provided some much needed perspective from other areas of PIANC. There is much room for improvement, but we are encouraged by these engagements and hope to raise awareness of our activities across the Commissions. There was discussion about PTG CC being willing to review of table of contents of WGs around the time that WG are formulating report structure, this would allow sufficient consideration of climate variables, rather than reviewing near completed reports.

**4.4.4 Update on the Activities of Navigating a Changing Climate**

In March 2017, the Navigating a Changing Climate conference ‘Moving Towards Low Carbon and Resilient Waterborne Transport Infrastructure’ was held in Brussels. This event provided attendees with a much-appreciated opportunity to hear from a wide range of international experts with experience in inland and maritime climate change mitigation and adaptation measures. A comprehensive report from the conference highlights the key messages from the event and provides a summary of the presentations (with links to speakers abstracts, PowerPoint presentations and video recordings). It also presents the outcomes of an ad hoc lunchtime discussion on energy sources and emissions from waterborne transport. The conference report can be downloaded from https://drive.google.com/file/d/0B7BzhazI9p3-ZTdtZ1NzWURkSkk/view

Later in the year, PIANC’s forthcoming Working Group 178 guidance on climate change adaptation for ports and inland waterways was presented during the high-level Transport thematic day at COP23 in Bonn. This presentation, by Jan Brooke the Focal Point for Navigating a Changing Climate, focused on the operational and institutional measures that can be taken to help the waterborne transport infrastructure sector adapt to more frequent extreme events as well as the other projected effects of climate change.
The partners are now engaged in the transport sector’s preparations for COP24, to be held in Poland at the end of 2018. In the meantime, the Navigating a Changing Climate website continues to provide a valuable source of up-to-date news and information for the sector on climate change mitigation and adaptation (see http://navclimate.pianc.org/news).

4.4.5 Update on the Activities of EnviCom PTG1, the WFD Navigation Task Group

The multi-stakeholder Navigation Task Group chaired by PIANC continues to represent the interests of European navigation sector stakeholders in the implementation process for the EU Water Framework Directive (WFD). ESPO, European Boating Association, European Dredging Association, CCNR, CEDA and ICOMIA are amongst the various commercial and recreational inland and maritime organisations that attend twice-yearly meetings in Brussels to receive updates on progress and to discuss the sector’s position on key issues.

Notwithstanding that this Directive has been in force for 15 years now, there is still a great deal going on. In addition to routine implementation activity on the status of ground and surface water bodies, 2017 has seen a focus on several themes of interest to the sector:

- a workshop was held in June 2017 to identify practicable mitigation measures to reduce the impacts of inland navigation on hydromorphology and ecology. The outcomes of this workshop will feed into the preparation of an updated Common Implementation Strategy (CIS) guidance document on achieving ‘good ecological potential’ – the WFD target for water bodies that have been physically modified to support a particular human use
- a new CIS guidance document has been finalised that will help promoters of new infrastructure to assess the possible implications of proposed new physical modifications for the aquatic environment and will enable them to demonstrate how these projects comply with the various requirements of the WFD
- discussion is continuing on the extent to which discharges from open loop scrubbers will affect the chemical status of WFD coastal and transitional water bodies

A main topic for 2018 is the Commission’s review to determine the fitness-for-purpose of the Directive. The WFD NAVI Task Group will be active in ensuring the views of the sector are taken into account in this review process.

4.4.6 EU Water Framework Directive

Two items of interest from the WFD Navigation Task Group http://www.pianc.org/euwfd.php

- new European guidance has been published to help project promoters ensure that projects involving new physical modifications to water bodies meet the requirements of the EU Water Framework Directive. This guidance, entitled ‘Exemptions to the Environmental Objectives according to Article 4(7): New modifications to the physical characteristics of surface water bodies, alterations to the level of groundwater, or new sustainable human development activities’ should be referred to by those proposing new waterborne transport infrastructure projects in European countries. It can be found at https://circabc.europa.eu/sd/a/e0352ec3-9f3b-4d91-bdbb-939185be3e89/CIS_Guidance_Article_4_7_FINAL.PDF
- the European Commission’s ‘fitness for purpose’ review of the EU Water Framework Directive is now underway. The WFD NAVI Task Group will be following progress with this review, and anyone wanting to provide input is encouraged to contact Jan Brooke, Chair of the Task Group, via wfd@pianc.org
4.5 The Future

2018 promises to be a busy and productive year for EnviCom. Most of our WGs will be completing their work in 2018. Several new Terms of Reference are under active development, which should lead to new WGs on a range of topics of importance to the navigation sector, including beneficial use of dredged material, invasive species, among others.

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’re looking forward to working together in 2018.

Todd Bridges
Chairman of EnviCom

Edward Brauer
Secretary of EnviCom
5  Report of the Recreational Navigation Commission (RecCom) 2017

This commission was established to deal with recreational navigation infrastructure. This is a unique focus within PIANC, as it is connected to leisure and tourism, as opposed to transportation or logistics.

In addition to the common activity of all Technical Commissions of PIANC, focused on the management of Working Groups for production of high-quality technical reports and guidelines, RecCom also manages:

- The Marina Excellence Design ‘Jack Nichol’ Award (MEDA)
- The Marina Designer Training Programme (MDTP), that organises courses for marina designers at an international level.

The key strategic objectives of the Commission are developing around core activities: Working Groups, Marina Designer Training Program, and the cooperation with marina industry groups and within PIANC.

After 12 years and an impeccable record of achievements and enjoyable leading flair, Elio Ciralli finished this fruitful trajectory in RecCom during 2017 and gave way to a new Chairman. Esteban Biondi, the new Chairman, is an engineer and marina designer with understanding of the marina development process and experience in international and multicultural settings.

5.1  Members of RecCom

- Esteban Biondi (Argentina)  Chairman
- Simone Lanzalone (Italy)  Secretary
- Arnaud Guillard (France)
- Dimitrios Pagonis (Greece)
- Eduardo Alejandro Montagut (Colombia)
- Fabiana Maccarini (Italy)
- Francisco Sarrias (Spain), Alternate Member
- Gian Battista Borea d’Olmo (Monaco)
- Giselle De Boer (the Netherlands), Young Professional
- Greg Britton (Australia)
- Hans Nickels (Germany)
- Harald Andreassen (Norway)
- Harri Sane (Finland)
- Hong-Yeon Cho (Republic of Korea)
- John Kwong (P.R. China)
- Jonathan Armbruster (USA)
- Laurent Monsaigeon (France), Alternate Member
- Lee Woo-Jae (Republic of Korea)
- Liina Härm (Estonia)
- Mark Pirrello (USA), Alternate Member
- Masato Yamashita (Japan)
- Matthew Trammell (USA), Young Professional
- Michiel De Jong (the Netherlands)
- René Bouchet (Monaco)
- Sara Calvo (Spain)
- Steve Timmermans (Belgium)
- Stig Jansson (Sweden)
- Tim Beckett (UK)
- Roberto Perocchio (ICOMIA-Marina Group)
- Peter Jansen (ICOMIA-Marina Group)
- Oscar Siches (ICOMIA-Marina Group)
5.2 RecCom Meeting – Civitavecchia

In April 2017, RecCom conducted its 69th meeting in Civitavecchia, Rome sea harbour, surrounded by 2000 years of history and the astonishing capacity to adapt to modern times.

Elio Ciralli hosted his last RecCom meeting as Chairman and organised a comprehensive programme of technical visits. The visits to yacht harbours in the area illustrated different types of Mediterranean marinas. RecCom members and guests could observe marina infrastructure developed and dedicated to nautical sports, a new superyacht facility in a historical harbour, and a marina facility where yachts and traditional fishing boats thrive in synergistic relationship with recreation and tourism activities.

This meeting included the participation of Roberto Perocchio, President of ICOMIA-MG. PIANC RecCom is grateful to his commitment towards a closer practical collaboration between these sister organisations, which resulted from the joint meeting held in Amsterdam in 2016 and promoted by past Chairman Elio Ciralli.

5.3 RecCom Meeting – Pittsburgh

RecCom’s 70th meeting was held in Pittsburgh in September, during the PIANC-SMART Rivers Conference. The Commission was honoured by the presence of Mr Neil Lawson, Vice-President of PIANC, who participated on behalf of the recently appointed Australian representative to the Commission, Greg Britton. Terry Brown, Chair of WG 182, also participated in the meeting.
The year ended with several new members, including two YP’s (from The Netherlands and from France). We look forward to new YP appointments by all National Sections.

5.4 Working Groups

During 2017, WG 149 – ‘Guidelines for Marina Design – Part 4’ was published. WG 149 was a major undertaking of RecCom under Elio Ciralli’s leadership. The report will address comprehensively marina design issues and was divided in five parts. Three parts have already been successfully published and the final two parts are in progress.

The publication of WG 177 – ‘Marina Excellence Design: 10 years of the ‘Jack Nichol’ Award – MEDA’ promotes the award and highlights its trajectory.

Several other Working Group reports are near completion:

- **WG 147** – ‘Guidelines for Managing the Relationship between Recreational Navigation and Commercial and Fishing Ports’
  Final stages of editorial review.

- **WG 182** – ‘Underwater Acoustic Imaging of Waterborne Transport Infrastructure.’
  This WG-report will soon be available for revision by other commissions.

- **WG 169** – ‘Fire Systems Detection and Controls in Marinas’
  This WG is under revision by the Commission and Sister Associations, while a new Chair needs to be appointed in order to finalise the report.

- **WG 168** – ‘Single Point Yacht Mooring Design’
  Is making steady progress.

During 2017, WG 202 – ‘Influence of Recreational Navigation Infrastructure on Waterfront Projects’ was established; Chairman Mr Bas van de Pas was appointed and the WG kick-off meeting was scheduled for the spring meetings in Brussels.

WG 148 – ‘Sustainable Recreational Navigation Infrastructure’ was also re-launched in a second phase during 2017. The new WG members had initiated the review of the previous efforts and are scheduled to meet during the spring meeting in Brussels. This meeting was designed to be open to guests and all RecCom members.

5.5 Collaboration and Outreach

5.5.1 Activities within PIANC

We recognise the importance of internal collaboration within PIANC, including National Sections, Technical Commissions and our Sister Associations.

Mr Biondi, in his first presentation as Chair of RecCom to members of PIANC AGA during the meeting in Cairns, offered the Commission’s assistance to help make PIANC more relevant and useful in each member country. We recognise that many countries have developed marina industries that are not yet entirely aware of PIANC, and others with plans to expand their recreational navigation may benefit from our collaboration. This offers new opportunities for both National Sections and for RecCom.

National Sections, Qualifying Members and future members of PIANC can benefit from the expert guidance of RecCom, increase their membership and enhance their relevance in support of the sustainable development of recreational navigation infrastructure. This call was immediately responded by PIANC Australia, resulting in clear steps towards reconnecting to the national marina industries association.

In addition to the open call to all National Sections and Qualifying Members to seek assistance from our Commission on recreational navigation issues, we are implementing closer collaboration with EnviCom.
As part of this effort, a joint meeting between RecCom and EnviCom was scheduled during the Spring meeting in Brussels. We are discussing how to best include recreational navigation issues in the Working Groups under the purview of EnviCom and the PTG CC (Climate Group), as well as EnviCom’s involvement in RecCom’s WG 148 – ‘Sustainable Recreational Navigation Infrastructure’.

RecCom is working closely with the organisers of the World Congress in Panama to enhance the recreational navigation presence in PIANC’s most important international event. Our activities during PIANC 2018 include a Marina Designer Training Programme (pre-conference one day course), a Marina Track session, a RecCom meeting and a Marina Forum programme to reach out to regional decision makers and private sector actors involved in recreational navigation infrastructure businesses. Close collaboration is underway with the Congress Local Organising Committee, driven by ACP (Panama Canal Authority), and the national chamber of maritime enterprises (Cámara Marítima) of Panama.

RecCom intends to take advantage of future PIANC events to facilitate regional- or national-level discussions with the marina industry, reaching out to identify opportunities to become more relevant to them, and connecting them to the regional representatives of PIANC.

5.6 Collaboration with ICOMIA-MG

ICOMIA is a PIANC Sister Association with a long history of mutual collaboration. The Marina Group within this association (IMG) is a major partner of RecCom.

During the RecCom meeting in Civitavecchia, ICOMIA-MG representatives proposed new topics for future Terms of Reference and suggested updates to WG reports. Since PIANC WG guidelines are sometimes used as a reference by regulatory bodies, it is of mutual interest to ensure that our guidelines are up to date and relevant. We also developed a joint strategy to improve the call for the marina design award (MEDA), which was implemented during 2017.

Our Commission has been invited to participate in the organisation of the signature marina event by ICOMIA, the World Marina Conference, which will be held in Athens, Greece in October of 2018. RecCom contribution will be focused on our Working Group reports and international guidelines for marina design. We are also planning an activity associated with the Marina Excellence Design Award programme, to raise awareness regarding this award.

5.7 Other Outreach

RecCom is now in the process of implementing agreements with GMI (Global Marina Institute) and IMI (International Marina Institute), which together administer the certification for marina managers worldwide.

Additional outreach efforts of RecCom to the marina industry include presentations on PIANC’s ‘Working with Nature’ approach applied to marinas in IMBC 2017 (International Marina and Boatyard Conference in Tampa, Florida) and a short article published in Marina World (September/October 2017 issue) by Mr Biondi.

Increasing the direct co-operation with various international bodies, ISO is using RecCom WG 134 Design and Operational Guidelines for Superyacht Facilities as reference for the new ISO 21406 Essential requirements for luxury harbours.

Our LinkedIn profile has now more than 1,200 connections and keeps growing. We are using this avenue to encourage marina presentations in the PIANC’s World Congress and to promote the Marina Designer Training Programme (MDTP) one-day pre-congress short course.
6 Report of the Co-Operation Commission (CoCom) 2017

6.1 Introduction

2017 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 Members of the Commission

- Edward Schmeltz (USA) Co-Chairman
- Akula R. Rao (India) 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 Member
- Elizabeth Follosco (the Philippines)
- Hector Miole (the Philippines)
- Hartmut Brühl (Germany)
- Michaël Fastenbauer (Germany)
- Rogelio Gordón (Panama)
- Ronald Stive (the Netherlands)
- Cecilia Norman (Argentina), Young Professional
- Geert Van Cappellen (Belgium), PIANC Secretary-General
- Freddy Wens (Belgium), PIANC-COPEDEC IOC Chair
- Enrique De Faragó Botella (Spain)
- José-Luis Monso de Prat (Spain), Alternate Member
- Young-Min Oh (South Korea)
- Daphne Thoon (Belgium), Young Professional
- Razzazan (Iran)
- Mohammed Hossein Nemati (Iran), Alternate Member

Several changes to the membership occurred during the year: Louis van Schel was replaced by Geert Van Cappellen; Trygve Isaksen resigned to dedicate more time to the Norwegian Section. Eric Marcone, inactive for some time, was removed from the Commission’s rolls.

Additional members appointed during the year include: Daphné Thoon (YP, Belgium), Mr Razzazan, (Delegate for Iran) and Mohammad Hossein Nemati, Alternate Delegate for Iran.

6.3 CoCom Meetings

In 2017, two meetings were held: a formal meeting on 1 February at PIANC HQ in Brussels and an informal meeting on 19 September in Pittsburgh at the occasion of the PIANC-SMART Rivers Conference.

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

6.4.1 SC-1 – Training & Education

SC-1, Training in Ports and Waterways, (formerly WG 126) continues to be headed by Ronald Stive. The SC’s database is on the PIANC website and relates to available training activities for Ports and Waterways. The commission continues to solicit input to that data base 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.

In addition, the sub-committee, under Mr Stive’s direction, is developing a proposal to conduct a multi-day short course in a Qualifying Member nation, based on one of the more popular PIANC Working Group reports, such as WG 121 – “Harbour Approach Channel Design”. The course would be presented by PIANC members well versed in the subject matter and potentially part of the Working Group. The intent would be to increase PIANC visibility in new markets and attract further members to a new QM. Indonesia is being considered as the potential location of the first short course. Financial support from HQ will be required to launch the maiden effort. More to follow.

6.4.2 SC-2 – Regional Activities

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

<table>
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<th>Country</th>
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<tbody>
<tr>
<td>Mexico</td>
<td>Fiji/Papua New Guinea</td>
</tr>
<tr>
<td>Chile</td>
<td>Latvia</td>
</tr>
<tr>
<td>Uruguay</td>
<td>Lithuania</td>
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<tr>
<td>Peru</td>
<td>Morocco</td>
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<tr>
<td>Cambodia</td>
<td>Mozambique</td>
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<tr>
<td>Thailand</td>
<td>Kenya</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 country late in 2014 to help solidify the Section; followed by Indonesia in 2015 and 2016. Those efforts were spearheaded by the Japanese Section 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.

On 4-5 November 2017, Lillian Almodovar attended PIANC Colombia’s 2nd Congress, which highlighted dredging, maintenance of existing port infrastructure, integration of policies and operational practices and the future of navigation in Colombia. In addition, Ms Almodovar met with the PIANC Colombia Board of Directors and provided suggestions on the development of their strategic plan with specific emphasis on strengthening their relationships with the public and private sectors.

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. A draft proposal has been presented to CoCom and is in discussion which addresses the details of the suggested Conference as agreed by a regional team composed of representatives from Argentina,
Brazil, Panama, Colombia and USA. The first iteration of this event is scheduled to be held in conjunction with the upcoming World Congress ‘18 in Panama City in May 2018. Some of the potential themes and panel discussions include the future of navigation technologies throughout Latin America.

To bolster its partnership and influence in Latin America even more, PIANC was delighted to have the Organisation of American States (OAS)`s Jorge Duran deliver the keynote address entitled ‘Port Models in Latin America and the Caribbean: Competitiveness, Logistics, Port infrastructure and Security’ at the recent PIANC-SMART Rivers Conference in Pittsburgh. As Executive Secretary for the OAS’s Inter-American Committee on Ports, Duran brings a wealth of experience along with key contacts. He also reaffirmed his commitment to PIANC and has been encouraged to play a role in a new PIANC InCom Working Group on the Logistics & Competitiveness of Inland Ports.

Following PIANC-SMART Rivers, Mr Knight promoted PIANC during his presentation at the OAS’s 3rd Hemispheric Conference on Competitiveness, Innovation, and Logistics on 3-6 October 2017, Panama City, Panama and then at the AAPA Latin Congress in Punta del Este, Uruguay in November, while continuing to network thanks to the key contacts provided by Mr Duran.

Jorge Duran of the OAS (CIP) delivering keynote address at PIANC-SMART Rivers (September 2017)

AAPA Latin Congress Punta del Este, Uruguay (November 2017)
PIANC sections in Australia, the Netherlands and Japan are all currently actively engaged in similar efforts. Vietnam continues to be pursued.

Indonesia was also targeted during the year, but their participation has been challenging due to internal, structural impediments. However, The first PIANC Indonesia Seminar was held in Jakarta on 28-29 October 2015 and Indonesia became a Qualifying Member in 2016. As noted elsewhere, Indonesia is being considered for the launch of a seminar on PIANC Working Groups.

The Australian Section has taken a number of actions consistent with their strategic plan and with the objectives of CoCom for expanding PIANC membership. The efforts were directed to members of the Pacific Maritime Transport Alliance (PMTA) made up of ports of the Pacific Islands. The Australian NS is attempted to add a technical seminar to the 2015 PMTA Conference, a member of the Australian national section. A PIANC Australia sponsored event for the islands was stifled this year due to a lack of financial support for the event and an evident lack of interest on the part of island nations in the Pacific.

Over the past year, there continues to have been continuing progress within PIANC Latin America.

6.4.3 SC-3 – PIANC-COPEDEC X Conference

The first IOC/LOC Meeting for the 10th International Conference on Coastal and Port Engineering in Developing Countries (PIANC-COPEDEC X) was organised in Kish Island, Islamic Republic of Iran, on 6-7 August 2017.

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, Chairman of the LOC, Iran.

The meeting decided to organise the PIANC-COPEDEC X Conference from Sunday 8 to Thursday 12 November 2020 in the Kish International Convention Centre, Kish Island, Islamic Republic of Iran. The meeting also agreed to organise the PIANC-COPEDEC X and ICOPMAS XIV Conferences as ‘one conference’ under the double name but following the rules and regulations, agreed upon by PIANC CoCom and described in the ‘Template on the organisation of the International PIANC-COPEDEC Conferences’ of December 2015.
The theme of the conference will be ‘Enhancing Waterborne Transport and Sustainable Coastal Development’. The second announcement will be published in the beginning of 2018 and more information can be found on the website [http://pianc-copedec2020.pmo.ir/en/home](http://pianc-copedec2020.pmo.ir/en/home).

### 6.5 Action Plan

An Action Plan based on the new Strategic and Operating Plans was developed late in 2013. 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.

Respectfully submitted

**Edward J. Schmeltz**  
*Co-Chairperson of CoCom*

**Akula Rao**  
*Co-Chairperson of CoCom*
Continued investment in young professionals is paying off, and the past 12 months are a testament to the dedication and influence of YPs from around the world. In fact, many of the Young Professionals Commission’s activities in 2017 were directly aligned with key objectives outlined in the 2014-2018 Strategic Plan, including growth, increased focus on countries in transition, and promotion of the Working with Nature (WwN) Concept. These efforts culminated during the sixth occasion of YP-Com’s signature international event, the Biennial Technical Visit (BTV), held in June 2017, in conjunction with the AGA in Sydney and Cairns, and organised around EnviCom and the WwN theme.

The commission grew again, both in numbers of individual YP Members and in terms of global activity. Concurrent with the Strategic Plan, YP-Com is now larger than ever, with over 2,400 members and supporters worldwide. Our recently established YP-Com Board, spread across three regions – Asia-Pacific, Americas and Europe/Africa – also helps promote YP initiatives and significantly increase PIANC activities. Broadening the board geographically has enabled the commission to hold recurring events across all three regions and more consistently engage newer sections in Countries in Transition while reinvigorating existing sections. For example, in 2017, the 3rd Annual South American River Plate Meetings were held in Chile and drew more than 100 participants from several countries throughout the region, including Uruguay and Argentina. Also, in attendance were international participants from some of the strongest, longstanding YP Sections, such as Spain and the Netherlands.

Fuelling new activities in new countries, YP-Com also initiated a mechanism to reward the most active YP sections each year. Thus, the ‘Best Performing YP Group Award’ was unveiled to reward the most active sections with a Certificate of Recognition during the AGA each year, and will be based on a cross-voting procedure with votes cast by YP-Com delegates and Board Members based on each section’s activities. In Cairns, special thanks were given to Argentina, Spain, Belgium, the Netherlands, South Africa, Iran, Singapore, the Philippines, Japan and Australia as the most active YP Groups in 2017.

YP-Com also made a concerted effort in 2017 to expand its network to the non-engineering fields related to waterborne transport infrastructure. A necessary adaptation to an ever-changing global industry, this effort also promotes an even gender balance by engaging YPs from professions, such as environmental scientists and pilots/navigation specialists. Along with hosting an EnviCom-themed BTV, developed around the WwN philosophy, Pablo Arecco’s closing remarks in Australia called on Young Professionals to expand their local networks and seek WwN Award candidate projects from each of their countries. Several YP-initiated nominations were subsequently received and are under evaluation for potential WwN Awards.

### 7.1 YP-Com Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
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<tbody>
<tr>
<td>Pablo Arecco (Argentina)</td>
<td>Chair</td>
</tr>
<tr>
<td>Andrew Thomas (USA)</td>
<td>Co-Chair</td>
</tr>
<tr>
<td>Inés Alvarez (Peru)</td>
<td>Secretary</td>
</tr>
<tr>
<td>Carolina Piccoli (Brazil)</td>
<td>America Vice-Chair</td>
</tr>
<tr>
<td>Nahuel Bonfante(Argentina)</td>
<td>America Vice-Chair Supporter</td>
</tr>
<tr>
<td>Ingrid Klimann (Argentina)</td>
<td>America Vice-Chair Supporter</td>
</tr>
<tr>
<td>William Glamore (Australia)</td>
<td>Asia-Pacific Vice-Chair</td>
</tr>
<tr>
<td>Hidenori Takahashi (Japan)</td>
<td>Asia-Pacific Vice-Chair Supporter</td>
</tr>
<tr>
<td>Daan Jumelet (the Netherlands)</td>
<td>Europe-Africa Vice-Chair</td>
</tr>
<tr>
<td>Enrique Ripoll (Spain)</td>
<td>Europe-Africa Vice-Chair Supporter</td>
</tr>
</tbody>
</table>
7.2 The 2017 Membership Roster of YP-Com is as follows:

7.2.1 Delegates

Marcos De Vincenzi (Argentina)
Francisco Weyland (Argentina)
Matias Palma (Argentina)
Kate Panayotou (Australia)
Tim Green (Australia)
Jürgen Trögl (Austria), InCom Observer
Stefan Devocht (Belgium), InCom Observer
Lien De Backer (Belgium)
Frederik Sanders (Belgium)
Carolina Piccoli (Brazil)
Anja Brüning (Germany)
Ingrid Dispert (Germany)
Reza Sohrabi (Iran)
Aftie Shafieefar (Iran)
Afshan Khaleghi (Iran)
Hidenori Takahashi (Japan)
Hiroshi Matsushita (Japan)
Masayuki Banno (Japan)
Deokhee Won (Korea)
Onno Musch (Norway)
Gensheng Zhao (PR China), InCom Delegate
Zi Qian Yang (Singapore)
Kishan Tulsi (South Africa)
Enrique Ripoll (Spain)
Daan Jumelet (the Netherlands)
Esle Vrolijk (the Netherlands)
Christopher Ornun (the Philippines)
Adrian Cayanan (the Philippines)
Heather Armour (UK)
Chis Siverd (USA)
Andrea Viteri (USA)
Sebastián Solari (Uruguay)
7.2.2 Observers

Joao Dobrochinsky (Brazil)
José Aldunate (Chile), MarCom Observer
Melina Godoy (Costa Rica)
Kristine Pfliegaard (Denmark)
Carlos Miranda Eguez (Ecuador)
Jordan Lagnado (France)
Ben Nair (Malaysia)
Chantal Lazarus (Panama)
Yuting Li (PR China)
Jia Hann Tan (Vietnam)
Vera Wong (Singapore)
Ilse Van den Bosch (the Netherlands)
Pieter Nordbeck (the Netherlands)

As we close the book on 2017, YP-Com would especially like to thank our departing Board Members and send a warm welcome to its incoming Board Members. Many thanks to William Glamore, former YP Vice-Chair of the Asia-Pacific Region and now Chair of PIANC Australia, for his countless efforts in promoting YP-Com for many years and for organising the 6th BTV, one of the most spectacular YP events ever held. We also extend a special thanks to Hidenori Takahashi for his constant promotion of YP activities during his term as regional supporter of the Asia-Pacific for many years. YP-Com simultaneously welcomes three new faces to the Board, including Nina Piccoli (Brazil, residing in USA) as the new Vice-Chair of the Americas, Tom Shand (New Zealand) as the new Vice-Chair of the Asia-Pacific, and Chris Ornum (the Philippines) as the new Vice-Chair Supporter of the Asia-Pacific.

Lastly, YP-Com will be forever grateful for the tremendous amount of energy put forth by Pablo Arecco and Ines Alvarez over the past several years. 2017 marks the last full year of their terms as YP-Com Chairman and Secretary, respectively. The world seems a little smaller now, and thanks to our great friends Pablo and Ines, YP-Com has never been better!

7.3 YP-Com Events

Our main event this year was the 6th Biennial Technical Visit (BTV), which took place in Sidney and Cairns, Australia, on 15-21 June. Young Professionals from all over the world joined this event. The theme was ‘Working with Nature’, in line with PIANC initiatives of WwN, PTG CC, Sustainable Ports and Dredging Sustainability.

During the days in Sidney, the group visited the Water Research Laboratory (WRL) of the University of New South Wales (UNSW), the White Bay Cruise Terminal and the Cruise Terminal at Sidney Harbour including a boat trip around the harbour giving the chance to check the cruise and ferry terminal, as well as the iconic buildings like the Opera House and the Harbour Bridge.

Afterwards, in Cairns, a whole day of technical lectures took place, including networking breaks and the Gala Dinner together with the AGA attendants. Last but not least, there was a technical tour around the Great Barrier Reef to experience the great wonders of the World Heritage Great Barrier Reef.

To close the event, a casual Sundowner brought together over 65 participants who shared knowledge, discussing ‘Working with Nature’-topics, alongside getting to know Young Professionals from all parts of the world, establishing new business connections and probably friends.

The BTV was an amazing week full of interesting and inspiring technical tours and presentations. Great thanks to Will Glamore and everyone from PIANC Australia for the organisation of not only a fantastic Biennial Technical Visit, but a unique combination of events with the AGA, BTV and the Australasian Coasts & Ports 2017 Conference all well-aligned, creating fantastic additional joint activities and networking events.
Along the year, YP-Com organises meetings in which several topics are discussed between the delegates of all the countries, such as new members, future events, action points, etc. If it is possible, the meetings are complemented with a technical visit close by to the venue location. All members of the YP-Com are invited to join in person or online. In 2017, the following meetings took place:

7.3.1 YP-Com Meeting and Technical Visit, 1 February 2017, Brussels, Belgium

As first meeting of the year, the YP-Com joined at the Headquarters during the PIANC Commissions Meetings’ week. During the meeting we had a debrief from the ViceChairs about the activities of its regions, we reviewed our main goals for the year 2017 and 2018, and we structured future Commission’s events: worldwide (Biennial Technical Visits), large regional (Regional Seminars, e.g. Asian-Pacific Seminars every two years), small regional or neighbouring countries (such as the Belgian-Dutch joint technical visits or River Plate meetings), and finally, national events.

After our meeting we had some time to enjoy the Joint Commissions lunch at PIANC HQ, before departing to our Technical Visit to the Strépy-Thieu boat lift which is located on a branch of the Canal du Centre in Wallonia, Belgium. With a height difference of 73.15 metres it was the tallest boat lift in the world until last year.
7.3.2  YP-Com Meeting, 15 June 2017, UNSW, Sidney, Australia

This meeting took place just before the 6th BTV in Australia on 15 June at UNSW (University of New South Wales) in Sydney.

7.3.3  YP-Com Meeting, PIANC-SMART Rivers, 18 September 2017, Pittsburgh, United States.

On 18 September, during PIANC-SMART Rivers, YP-Com had a meeting where main topics as Succession Plan and Action Points were discussed.

Besides the YP-Com meetings, we organised different events in which all Young Professionals are invited to join. A few highlights of the YP activities within the National Sections of PIANC:

7.4  Argentina

The YP group in Argentina, steered by the Argentine PIANC YP Board, organised many activities during the year. It is important to stress the big support of all the members of the Argentine National Section.

The Young Professionals of PIANC Argentina toured Exolgan container terminal, located in Buenos Aires, on 18 August, currently the largest container terminal in Argentina. The technical visit was very well attended including participants from many related organisations, such as the students of the post-graduated specialisation on Port Engineering of the University of Buenos Aires. After a technical presentation of the port’s operations, the group continued with a visit to the Primary Zone Yard.
The visit focused on showing the entire process of a container since its arrival to the terminal till it is loaded on the vessel; considering also the management of empty containers and the associated processes of return and repair, the handling of the reefer containers, and the inspections that are done to classify the containers. Finally, the day was closed with networking drinks in San Telmo neighbourhood, the old district of Buenos Aires city.

YPs at Berth 2 in Exolgan, Argentina

On 29 and 30 September, a Seminar and Technical visit to the Port of Santa Fe took place. The main topics of the technical presentations were Logistics and inter-modality, geotechnics in port works and sediment transport in the Paraná River.

The participants also visited the liquid bulk Fuel Terminal operated by Shell CAPSA in Santa Fe, the Grain Terminal, operated by the Port Authority itself (EAPSF), the Port of Santa Fe Museum and sailed throughout the access channel of the port and the Paraná River.
7.5 Belgium

On 16 June, the Belgian YP’s organised a seminar in which the planned and ongoing works along the Dender in Lessines (SPW) and in Geraardsbergen (W&Z) were presented. The programme included also a visit to the construction sites for the renewal of the weirs at Deux-Acren (Lessines) and Geraardsbergen. During the visit of the construction site, we saw notably the new flap weirs already in place and the building of the future vertical slots fish pass.

Visit to the construction sites for the renewal of the weirs at Deux-Acren (Lessines) and Geraardsbergen

7.6 Chile

On 30 November and 1 December, the 3rd Meeting of South America and Río de la Plata of YP-Com, organised by the National University of San Antonio (Chile), took place at the Museum of Natural and Historical History of Chile. Association of Ports and Coastal Engineering of Chile (www.puertosycostas.cl), in conjunction with PIANC, Puerto San Antonio, the Argentine National Section of PIANC and the AADIP. The conference counted more than 100 attendees from different countries, such as Argentina, Uruguay, Spain, France and Chile, who met to discuss and discuss the city-port relationship. The activities of the first day included technical presentations and a moderated conversation. During the evening the attendants enjoyed a camaraderie dinner overlooking the bay of San Antonio. On the second day, more technical presentations took place giving time in the afternoon to do a technical visit to the Port of San Antonio.

3rd South American and Río de la Plata YP-Com event in San Antonio, Chile
7.7 Japan

PIANC Japan Young Professionals met on 25 April at the office of PIANC Japan in Tokyo. The meeting was attended by 15 YPs and 3 guests. All YPs and guests presented their own work including self-introduction and all attendees enjoyed each other’s different background and topics.

![Young Professionals Japan Meeting](image1)

On 17 October, PIANC Japan’s Young Professionals made a technical visit to the Yanba Dam project. Due to the capacity of the construction site, the number of participants was limited and only 16 YPs were lucky to attend. The dam project began in 1947, with completion planned for 2015; however, delays mean it will be finally completed in 2019. 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 following day, the group convened to discuss forthcoming events and for YPs to present two new technologies: 1) a 3-D tsunami simulation using artificial intelligence, and 2) a construction method for leg-type offshore breakwaters.

7.8 Korea

On 13-14 November, Japanese YP-Com members visited Korea to discuss the contents of ‘the 3rd YP-Com Asia-Pacific Seminar’, which is scheduled to be held in 2018. The meeting was held at the Korea Institute of Ocean & Technology (KIOST), and approximately 15 people were present. The participants from Korea were active YPs, and this group will surely become the strong core to establish the YP-Com group of Korea. Additionally, we visited the Sihwa Tidal Power Plant, one of the largest in the world.

7.9 Singapore

The main event for Singapore was a Technical Conference on 7 April at Nanyang Technological University. Approximately 45 participants were in attendance, with 70 percent of them being YPs. The range of topics presented included land reclamation in Singapore, sediment disposal and dredging calculation and methods as well as physical modelling of coastal structures. Rounding out the day’s
activities, the event included a social/networking happy hour. It was truly a breakthrough as it was the first time that PIANC Singapore organised a technical conference.

Another event in Singapore was a Technical Visit on 12 October to the Port of Jurong, Singapore’s next generation multi-purpose port. The event started with several insightful technical presentations by the Operator representatives about the operations of the port as well as their green initiatives. Afterwards, PIANC Participants were brought to visit the port facilities as well as its green berth set-up. The operators of Jurong Port presented and showcased their operational control facility to PIANC Participants in terms of product processing and how it interacts with vessels at berth and maritime activities. This provided a unique opportunity to all participants to understand and realize how design and planning of a port facility is related to its daily operation and service.

**Technical Visit at Jurong Port**

### 7.10 Spain

On 6 June, the YPs from the Spanish Section organised a technical visit to the Port of Bilbao, specifically to the Extension works of the ‘Abra Exterior’ area. Over 45 Young Professionals attended the visit, exceeding the initial estimations of the Committee.

During the visit, attendees were granted access to the ‘SATO Levante’ floating dock, where they were able to see the construction process of the floating caissons, which will constitute the future operating
dock. The initial section of the dock was then available for visiting, where some of the caissons were already anchored and a trailing suction hopper dredger was refilling them. Finally, the attendees had lunch, invited by the contract JV, which happily closed the event.

7.11 United States

On 19 September, PIANC USA Young Professionals group organised a Happy Hour at the PIANC-SMART Rivers Conference in Pittsburgh, PA. The event took place at Texas de Brazil with great caipirinhas, but most importantly a great turnout of Young Professionals!

Thank you and Farewell to our Delegates and Observers

Last year, many colleagues joined the Commission as Delegates or Observers, some from the very beginning, others closer to the end of the year, but there was one common spirit: everybody was very enthusiastic to represent her/his country by joining this team, so we would like to welcome:

Matías Palma, Delegate Argentina, May 2017
Raúl Oberreuter, Observer Chile, December 2017
Andrea Viteri, Delegate USA, May 2017
Ed Backlund, Observer to MarCom, December 2017
Francesco Ligorio, Delegate Italia, September 2017
Lisa-Maria Putz, Observer Austria, September 2017
Heather Armour, Delegate UK, June 2017
Eslie Vrolijk, Delegate the Netherlands, June 2017
Lien De Backer, Delegate Belgium, June 2017
Frederik Sanders, Delegate Belgium, June 2017
Gensheng Zhao, Delegate China, October 2017
Masayuki Banno, Delegate Japan, June 2017
Rodney Hancock, Delegate Australia, June 2017
Tom Shand, Delegate New Zealand, September 2017
Chip Pohlen, Observer New Zealand, October 2017

Some others left during 2017 or will be leaving YP-Com in 2018 after fulfilling their mandates with passion and great commitment, so we extend a special thanks to:

Marcos De Vincenzi, a team leader steering the Argentine YPs
Francisco Weyland, a great colleague and friend in YP-Com for 6 years
Kate Panayotou, for your enthusiasm and support from Australia
Jürgen Trögl, for more than 10 years with an amazing commitment and constant support (2nd BTV, PIANC-SMART Rivers, and many more)
Andy Wareing, for your support from the UK
Hidenori Takahashi, a wonderful colleague and friend, you made it happen in Asia, an example of commitment while having fun
Emily Vuxton, a friend and observer from the USA
Alfred Roubos, one of the core Dutchmen and a great friend with many years strengthening the YP group in NL

Although they are leaving, we all know that they are and will be great supporters of YP-Com!

Pablo Arecco  
Co-Chairman of YP-Com

Andrew Thomas  
Co-Chairman of YP-Com

Ines Alvarez  
Secretary of YP-Com