June 2018

(Due to some unforeseen circumstances, the June newsletter was sent out with a little delay, we apologise for the inconvenience!)

After the 33rd PIANC World Congress in 2014 in San Francisco, USA, it was Panama’s turn to organise PIANC’s 34th World Congress in Panama City. And again we can say it was a success! Besides a varied technical programme, the social programme and the ladies programme were also very well organised. Also, we gathered in Panama City for another very successful Annual General Assembly meeting. PIANC would like to thank its Panamanian friends for their efforts and very smooth organisation of both events.

Our PIANC Delegates in Panama proudly welcomed about 560 attendees to the 34th PIANC World Congress in Panama City. The Congress is held every 4 years in one of PIANC’s member countries in order to present and discuss topics relevant to the waterborne transport infrastructure sector.

Hosting a PIANC Congress is nearly a ‘once-in-a-lifetime’ event and it was in fact the very first time that Panama hosted this event. And we can say they did an excellent job!

294 papers from about 25 countries were presented on a range of topics from inland navigation, dredging, logistics and infrastructure, ports, marinas and environment. Besides that, 2 short courses were offered on Working with Nature in the Americas and Waterfront Facilities Inspection & Assessment, respectively. Moreover, 12 parallel sessions of technical sessions took place from Monday 7 May until Thursday 10 May.

The Panamanians also offered the Congress Delegates some interesting tours. Among the technical tours, interesting trips to the Agua Clara and Gatún Locks (Pacific Side of the Canal), a partial transit through the
Miraflores and Pedro Miguel Locks (Atlantic Side of the Canal) or a trip to the Barro Colorado Smithsonian Tropical Research Institute were offered to the Congress Delegates. The cultural tours included a tour in Modern Panama City and a Colonial City tour, as well as a trip to the Embera Indigenous Community, a Rainforest Tour, a shopping tour at the Multiplaza in Panama City, a tour to the Shopping Paradise & Reprosa Museum, or a trip to the Frank Gehry’s Biodiversity Museum.

Visit by train through the rainforest to the Agua Clara and Gatún Locks (Atlantic Side of the Canal)

Cultural tour to the Embera Indigenous Community

The Congress organised many parallel events to encourage networking and exchange of information. The Opening Reception and official ‘kick-off’ of the Congress was held at the Riu Plaza Hotel, where attendees mingled with many other international Delegates. The closing cocktail at the Miraflores Locks also proved to be a marvellous setting. The Congress attendees enjoyed a very nice evening with Latin vibes!

Opening Reception at the Riu Plaza
The PIANC Young Professionals (YPs) had their own networking events and meetings, as you can read further on in the YP-section of the newsletter.

A special ‘thank you’ goes out to all of the Congress Sponsors and Exhibitors. PIANC International would also like to sincerely thank everyone who was involved in the Congress planning, as well as the speakers and attendees for contributing their time and expertise! A big thank you as well to the people of the Autoridad del Canal de Panamá (ACP) for putting together such a great Congress!

**BOOK OF ABSTRACTS & FULL PAPERS 34TH PIANC WORLD CONGRESS NOW AVAILABLE!**

Please note that the Book of Abstracts, as well as the Full Papers of the 34th PIANC World Congress in Panama, held on 7-11 May 2018, are now available on the PIANC website at [http://pianc.info/proceedings](http://pianc.info/proceedings).

All abstracts can be downloaded either by topic or by author. Full papers are listed by topic.

**NEWS FROM EXCOM & AGA**

**PIANC ExCom Meeting in Panama City on 4 May 2018**

On 4 May 2018, the ExCom meeting took place at the Riu Plaza Hotel in Panama City. As usual, the ExCom discussed the Association’s finances, new Terms of Reference (ToR) for new Working Group reports, the status of the current Working Group reports, Working with Nature and the Permanent Task Group on Climate Change (PTG CC), as well as the progress of Task Group (TG) 181 on the State and Perspectives of Waterborne Transport Infrastructure Worldwide.

Moreover, the ExCom discussed the Strategic Plan 2019-2023. The remarks of the ExCom to the Strategic Plan and the Implementation Plan were presented to the AGA on 5 May 2018. The draft Marketing Plan, taking into account the final version of the Strategic Plan, will be completed by the summer of 2018.

Mr Bridges, Chairman of PIANC EnviCom, presented the results of the Working with Nature Award, which is granted every 4 years during the PIANC World Congress. Mr Lawson, who had been chairing the Jury of the Award, remarked that the procedure to come to a result should be simplified. A proposal is to be sent to PIANC HQ.

Mr Bridges also informed the ExCom that Ms Jan Brooke (UK) has accepted the chairmanship of the Permanent Task Group on Climate Change (PTG CC) and the ExCom members also discussed the criteria for a permanent Chairperson for ProCom on the basis of a document thoroughly prepared by Mr Van Cappellen.

Miss Weltens (PIANC HQ) came to present the new PIANC website, which is now in its final stages and has been put online. The new website is currently linked to the old one, only the Members Only part still needs
to be transferred, as well as the PIANC databases. This is being dealt with and should be solved any day now.

Finally, the ExCom approved the Resolution 2018 and it discussed the schedule of future meetings/venues.

**PIANC Annual General Assembly (AGA) on 5 May 2018**

The Annual General Assembly (AGA) 2018 took place in Panama on 5 May 2018. Mr Caude welcomed all participants in Panama City and he thanked the Panamanian Delegation of PIANC for hosting this year’s AGA. The PIANC President also especially welcomed the new First Delegate of PIANC USA, Mr Rickey D. James, as well as the new First Delegate from South Korea, Mr Bumgou Kang.

After Mr Caude’s welcome words, Mr Manuel E. Benítez, Deputy Administrator of ACP, took the floor and he gave a brief speech in order to welcome all Delegates to the AGA in Panama.

Besides the traditional items discussed during the AGA, Ms Valérie Chabrier (France) was appointed as new Vice-President of PIANC, as proposed by the members of the ExCom in their meeting on 4 May 2018. Ms Chabrier will replace Mr Lundestad, who is stepping down. Ms Chabrier is Director at the Compagnie Nationale du Rhône. PIANC would like to welcome her as new Vice-President.

Mr Benítez (ACP) also introduced the PIANC Resolution 2018 (English-French), which was approved by the AGA Delegates.

During the AGA, Mr Le Réveillé from France and Secretary-General of PIANC, Mr Van Cappellen, signed the official agreement of the PIANC-SMART Rivers 2019 Conference, which will be held in Lyon, France. Mr Le Réveillé also distributed a flyer and he announced that the Conference website is now online at [http://smartrivers2019.com](http://smartrivers2019.com).
All Commission Chairmen gave an overview of the activities of their Commission in 2017 and Mr Kenichi Mizuno from Japan received the PIANC De Paepe-Willems Award 2018 with its paper entitled ‘System of Inspection and Diagnosis for Port Structures Using Unmanned Boat’.

Finally, the following Delegates gave an interesting presentation in the framework of a panel discussion on TG 181 - ‘The State and Perspectives of Waterborne Transport Infrastructure Worldwide’:

- Mr R.R. Sabonge: ‘Evolution of World Trade and Supply Chain Management’
- Mr E. Tapiero: ‘China’s Belt and Road Initiative – Links to Financing in Latin America’
- Mr L. Sheffer: ‘Panama’s Global Logistics Platform – Challenges and Opportunities for Growth’
- Ms H. Brohl: ‘Large Scale Maritime Investments in the U.S.’

Mr Caude thanked Mr Pansic, Chairman of TG 181, together with Ms Cann, Secretary of this Task Group, for the work achieved and for the huge documentation they gathered. He also thanked the five National Sections that contributed actively to their work. The final version of the report has been sent to PIANC HQ and will be made available in the coming months.

Additionally, Mr Caude mentioned that he was informed that Ms Cann, Secretary of the US National Section, who has always been deeply involved in PIANC, is retiring and he asked the GA to give her a very warm applause showing PIANC’s gratitude.

Last but not least, during the AGA 2018, Mr Caude informed the GA that he won’t run for a third mandate for PIANC President, considering the fact that two mandates are long enough to achieve some new actions, as he had already mentioned in Porto at the AGA in 2015. He will, therefore, end his mandate in June 2019 during the AGA in Kobe, Japan. A call for candidacies has been sent out by PIANC HQ to all First Delegates. Candidacies should reach PIANC HQ (sabine.vandevelde@pianc.org) by 1 September 2018 and must be submitted by the First Delegate of your National Section and should, of course, have the support of your National Section.

**NEWS FROM MARCOM**

**Kick-Off Meeting WG 200 on ‘Recommendations for the Design and Assessment of Single Point (SPM) and Multi Point Mooring (MPM) Facilities’**

On 18-19 June 2018, PIANC WG 200 on ‘Recommendations for the Design and Assessment of Single Point (SPM) and Multi Point Mooring (MPM) Facilities’ held its kick-off meeting at PIANC Headquarters in Brussels. The meeting was very satisfactory, as the Terms of Reference (ToR) were reviewed, the Table of Contents was fixed and contributions for all members were assigned.

The next meeting is scheduled after the Mediterranean days in Seville-Huelva (Spain) in October. Target date to deliver the draft report has been fixed for January 2020.

Ignacio Sanchidrian Vidal
Chairman of PIANC WG 200
NEWS FROM INCOM

6th Meeting of PIANC WG 192 on 'Developments in the Automation and Remote Operation of Locks and Bridges'

The 6th meeting of PIANC InCom WG 192 on 'Developments in the Automation and Remote Operation of Locks and Bridges' took place on 12-14 June 2018 in Koblenz, Germany. The meeting, organised by Walif Schneider and Rainer Strenge of the German Federal Waterways and Shipping Administration, consisted of several workshops to capture feedback and finalise the draft version of the WG 192 report. After this meeting, a final draft report will be completed and submitted to the InCom Committee in July for official review and further approval. Furthermore, the Working Group visited the Oberwesel RIS centre and the Aschaffenburg LOC.

The LOC Aschaffenburg, which went into operation in 2014, is one of the largest remote centres of the Federal Waterways and Shipping Administration of Germany. It serves 12 locks of the Main River which is a tributary of the Rhine and forms with the Main-Danube Canal and the Danube the connection between the North Sea and the Black Sea.

In 3 shifts, 34 employees guarantee a 24 hours a day/7 days a week operation. 4 locks each are assigned to 1 of the 3 control rooms. An operator operates 2 locks during the day shift and 4 locks during the night shift.

The Oberwesel Inland VTS is located at the Rhine River next to the famous Loreley rock. The centre serve as point of contact for shipping for distributing information or warning messages and to handle distress calls within their responsible areas. The major task is to provide the central nautical information service (NIF) via VHF radio. In addition the Oberwesel centre is operating the Reporting and Information System (MIB). Vessels carrying dangerous goods, tankers, passenger vessels, etc. are subject to reporting requirements. There is an electronic data exchange between other centres and also with the neighbouring countries following the route of a particular vessel. In case of an accident special reports are created for supporting emergency and rescue forces. A final task is to monitor ships movements and inform ships navigating on the limited fairway at the gorge section of the Rhine River about encounters via signal posts.

Please consult the InCom website for an intermediate status report and explanatory poster of the WG (http://incomnews.org/wg?reposname=WG+192+).
Automation and remote operation of locks and bridges. The status report presents an overview of the topics covered by the Working Group and reference projects, best practices and technical developments concerning the latest developments in the field of automation and remote control. The poster gives an overview of InCom, presents the WG 192 and its goals and the reference projects included in the brochure.

Our last Working Group meeting is currently scheduled for the week of the 24th of September 2018 in Niagara Falls (Canada), the place where it all started. During this meeting, the feedback of InCom Review Committee will be discussed and incorporated in the report. The aim is to finalise and approve the final report during this meeting.

Lieven Dejonckheere
Chairman of InCom WG 192

4th Meeting of PIANC WG 197 - 'Small Hydropower in Waterways'

The 4th meeting of WG 197 – 'Small Hydropower in Waterways' – was held at the offices of Deltares in Delft, Holland on 20 June with 3 site visits the day after.

The main focus of the discussion concerned the provisions for fish and eel passage both upstream and downstream around any hydropower plant associated with waterway navigations. Inland navigations are, by their nature, large rivers or water courses that ultimately end up in the sea. Migratory fish and eels are important and they must not be impeded in their progress to spawning grounds or the juveniles impeded on their progress to where they grow and mature.

The contrast in the approach to regulations between various countries and even between regions within the same country was highlighted during the discussions as was the difficulty of formulating an approach that can give guidance to waterway managers across the world. By the end of the meeting conclusions had been reached.

The group is now working on blocks of text for the guide and an interim report will be produced before the next meeting.

Nick Crosby
Chairman of PIANC WG 197

NEWS FROM YP-COM

Rodrigo Moltó (ATPYC, Spanish Section of PIANC) Recently Appointed Secretary of PIANC YP-Com

Rodrigo Moltó is a Civil Engineer with a MSc Degree specialising in Structures and Foundations. He is now working for WorleyParsons Spain and has more than 7 years of experience in conceptual design, detailed design and development of structural solutions, and large-scale marine and offshore infrastructure, such as overall piled jetties and wharves, GBS foundations, floating reinforced concrete caissons, and maritime superstructures. Rodrigo has collaborated with several specialists on a wide range of projects from inception through completion by designing steel and concrete structures with an emphasis on seismic designs, where appropriate.
Rodrigo Moltó, new Secretary of PIANC YP-Com

Rodrigo is part of the Young Professionals and Port Engineering Committees of the Spanish Section of PIANC (ATPYC). He participates in the Spanish Working Group on LNG Bunkering Guidelines and he is currently leading the Spanish Working Group on Seismic Design of Marine Structures.

Recently, Rodrigo was also appointed Secretary of PIANC YP-Com, in succession of Ms Inés Alavez. It is a great opportunity for him and for WorleyParsons to be part of the PIANC Association and its activities.

Rodrigo would like PIANC to know that the Association can count on him and that it will be a pleasure to help it reach its goals! PIANC International welcomes Rodrigo into the PIANC family! The Association also wishes to thank Ms Alvarez for all the years she has been a very committed Secretary for YP-Com!

YP-Com Activities All Over The World

The YP-Com activities from the different regions are described below, including a Sundowner in Australia, activities during the PIANC World Congress in Panama, technical site visit to the Ijmuiden sea-locks in The Netherlands, a technical visit to two quay walls in the Port of Antwerp, Belgium, and the celebration of the 15th anniversary of the Spanish YP-section in Santa Cruz de Tenerife, Spain. Further, an overview is provided of the upcoming events!

Andy Thomas
Chair YP-Com

Eslie Vrolijk
Co-Chair YP-Com

Inés Alvarez
Former Secretary YP-Com

Co-Hosted Networking Event in Sydney, Australia

The first networking sundowner of 2018 took place at Helm Bar in Darling Harbour (Sydney) on Thursday 8 March 2018. We were pleased to be co-hosting the event with Young Shipping Australia (YSA), which is to Shipping Australia what YP-Com is to PIANC.

Shipping Australia is a shipping industry organisation serving to promote and advance the interests of shipowners and shipping agents in all matters of shipping policy, environmentally sustainable practices and safe ship operations. Please refer to Shipping Australia’s website (https://shippingaustralia.com.au) for more information about the organisation and its members.

YP-Com Australia Chair, Rodney Hancock, had the following to say about the event: “Shipping and waterborne transport infrastructure go hand in hand, so co-hosting a sundowner with YSA makes a lot of sense. It’s a great opportunity to connect with like-minded maritime industry professionals, which will hopefully yield mutual benefits. The event also delivers on our objectives for 2018, which include expanding the YP network into areas we haven’t navigated before.”

PIANC would like to thank Shipping Australia – particularly Prema Bhautoo and Stephen Westfield – for their initiative and support with organising the event.
Co-Hosted Technical Visit in IJmuiden, the Netherlands

Together with the YPs of CEDA, the PIANC YPs of the Netherlands organised a technical visit to the new sea lock at Ijmuiden on 29 March 2018.

The excursion started with a boat tour along the construction site. During the tour, project members explained the construction phases of the new lock.

The evening programme continued at the Thalia theater in IJmuiden with 3 presentations:

- Van Oord commented on their activities in this logistically challenging project.
- Iv-Infra explained the design and construction of the rolling gates.
- Rijkswaterstaat discussed the role of the client and highlighted a number of cases relating to the civil design.

The evening ended with a buffet. While enjoying a snack and a drink, this was the ultimate opportunity for networking.

Finally, the collaboration between CEDA and PIANC has also been very popular (despite or thanks to a group size of 100 people). In short: this collaboration will continue!

PIANC World Congress in Panama City, Panama

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

YP-Com Board Meetings and Technical Visit

With YPs from all over the world attending the Congress, this was a great opportunity for a meeting of the YP-Com. The usual subjects were discussed, such as upcoming activities on national, regional and international level. In addition, the meeting was largely used to discuss the Strategic Plan for the Commission, building on PIANC’s Strategic Plan for 2019-2023. A draft document was developed for immediate actions and focus areas for the YP-Com in the next four years.

The next day, we travelled by train to the Atlantic side early in the morning, enjoyed the beautiful train ride to the other side and visited the locks.
**YP Activity: Workshop Ports of the Future**

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

By introducing real-world challenges that the different stakeholders are faced with in the process of port development, the actors can experience what it entails to develop a port ready for the future.

The game was hosted by the Dutch Embassy (Carlijne Blom, Dirk Janssen) and Prof. Tiedo Vellinga, expert in the area of sustainable port development.

With over 30 YPs and experts from all over the world, a game of port development, stakeholder management, challenges and limited budget provided an interesting dynamic between all attendees!

**YP Activity: Networking Drinks in Casco Viejo (‘Old Town’)**

On one of the evenings of the Congress, a networking event was organised in a beautiful old venue in Casco Viejo. We occupied the complete first floor of the venue, with over 125 YPs, representing more than 25 % of the total Congress attendees. Soletanche Bachy sponsored this event and after days of interesting talks, over 100 Young Professionals had the opportunity to get acquainted with their peers over some Soletanche-beers!

**Last but not least…**

The Closing Dinner of the Congress was a memorable event for some of us, as we officially said all our thanks and goodbyes to Pablo Arecco – the face of YP-Com for many years. Pablo has made a tremendous effort in the past years to build YP-Com in its current shape and we will do our best to take the YP-Com to the future! Pablo, once again: Thank you!
The Spanish YP-Section of PIANC celebrated its 15th anniversary with a 3-day Congress in Santa Cruz de Tenerife (Canary Islands).

Organising the Congress was a challenge for the Association, not only because of the logistics in terms of travel and transportation (Santa Cruz is located more than 2,000 km from the centre of the Iberian Peninsula), but also for organising the Spanish YP-Section event of PIANC (ATPYC) for the first time on the islands. The Congress was a complete success for ATPYC with more than 80 attendees.

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

The Port of Granadilla was conceived as a complementary installation of the Port of Santa Cruz de Tenerife (not a replacement), because the physical configuration of the Port of Santa Cruz is surrounded by the City of Santa Cruz. Moreover, the development of a new industrial and logistics area in Granadilla on land annexed to those occupied by the Port will generate increased industrial traffic, such as LNG and solid bulk.

The Port of Granadilla comprises more than 1,000 m of docks and an area of 75 hectares.

Rodrigo Moltó
YP-Com Spain and Secretary of YP-Com

The Joint Venture Scheldekaaien (Artes Roegiers, Herbosch Kiere, HYE) is the contractor for the works, and the client is De Vlaamse Waterweg, Afdeling Zeeschelde (in English: the Flemish Waterway, Division Western Scheldt). Engineering companies SBE and Technum-Tractebel Engineering are also involved in this project.

The two quays to be renovated are located along the right bank of the Western Scheldt river near the city centre of Antwerp. First, the old quay has to be broken down until about 10 m below the low tidal level by
means of explosives. Next, a new quay wall – a combined wall – has to be rebuilt at the exact same location. One of the requirements in this project, is that along the waterside the 7-m high capping beam needs to have the exact same print as the original stonework. A special rubber mat was therefore developed and installed in the formwork of the capping beam.

The works are being carried out in different phases, of which almost all of them were ongoing at the moment of the site visit. The group of YP’s was first given a presentation in which the works were explained. After this presentation, a site tour was organised by the JV Scheldekaaien and the evening ended with a networking dinner. The next YP Belgium site visit was scheduled for 26 June, where the construction of the new Coastal and Ocean Basin and towing tank in Ostend will be visited.

Stay tuned for these upcoming events:

3rd Asian YP-Com Seminar in Incheon, Korea

This Seminar will take place in Incheon, Korea on 29 October 2018. You will find more details in our next publication. The planning of the Seminar is still ongoing as well as the registration method.

For any questions or further information please contact the Korean delegates - Mr Deokhee WON (thekeyone@kiost.ac.kr), Mr Thomas KIM (minookkim@kiost.ac.kr) and Ms Julie KIM (Julie.kim@sk.com).

1st Europe-Africa YP-Com Seminar in Cape Town, South Africa

This event, to be held in August 2018 in Cape Town, South Africa, will be the first Europe-Africa YP-Com Seminar as part of our plan of organising regional events. The dates still have to be confirmed and will be included in future publications.

7th Biennial Technical Visit (7BTV) in Singapore

Singapore is confirmed as our next destination for the 7th BTV. Planning is still ongoing and dates will be confirmed in future publications.

Upcoming Event for the Dutch YPs

Q3 - Fall event - YP Seminar with short presentations from YPs.

Upcoming Events for the Argentinian YPs

10-11 August 2018: 4th PIANC YP-Com River Plate & South American meeting, Nueva Palmira, Uruguay
2-3 November 2018: Technical Visit to Puerto Madryn

Save the dates!
PIANC De Paepe-Willems Award 2019 -
Call for Abstracts

Please be advised that the deadline for sending in
abstracts for the PIANC De Paepe-Willems Award (PIANC DPWA) 2019 is 31 August 2018. Full papers are expected at the latest by 30 September 2018.

Please note that no exception to the deadlines will be allowed.

The Award consists of 3 prizes:

Number 1:

- € 4,000
- Free membership of PIANC for a 3-year period
- The winner will be invited to present his/her paper at the Annual General Assembly (AGA) of PIANC. Free hotel accommodation for 3 nights will be provided, as well as a payment of travel expenses in economy class to the AGA.

Number 2:

- € 2,000
- Free membership of PIANC for a 1-year period

Number 3:

- € 1,000
- Free membership of PIANC for a 1-year period

The Award will be granted to those candidates who submit the most outstanding paper selected by the jury in the calendar year preceding the General Assembly at which the Award is granted. In case of co-authorship, the Award will be granted to the principal author of the paper.

We would like to ask you to distribute this message among your Young Professionals. All abstracts/papers should be sent to PIANC HQ (sabine.vandevelde@pianc.org).

The PIANC-DPWA Rules & Criteria can be found at http://pianc.info/awards/pianc-de-paepe-willems-award.

PIANC Argentina at the 34th PIANC World Congress Panama 2018

The 34th PIANC World Congress took place last May in Panama City. During a whole week, Panama was the epicentre of the latest trends and best practices in the waterborne, transport and infrastructure sector.

The Congress gathered 560 participants from all over the world. Argentina was no exception, well represented by a delegation of 12 professionals. The Young Professionals Commission had a resounding success in attracting over 125 participants to Panama, resulting in the largest participation in a World Congress so far.

Argentina’s YPs had a very active role during the Congress. Undoubtedly, the most significant event was that after 6 years of dedication, Mr Pablo Arecco left his position as YP-Com Chairman to Mr Andrew...
Thomas. Pablo has proved himself invaluable for the YP-Commission and as a retribution, many have collaborated to complete the book he received with memories of all those years.

Farewell to Pablo Arecco during the 34th PIANC World Congress

A brief summary of Argentina’s participation in the Congress

Pablo arecco giving his presentation on ‘Port Vision Bahía Blanca 2040’

Pablo, together with Mr Fernando Re and Ms Ingrid Klimann, were the group of Argentinian YPs presenting technical works during the Congress. Pablo presented ‘Port Vision Bahía Blanca 2040’, setting the course for the region, in which a long-term port vision was presented for one of Argentina’s most important ports. This strategic planning process has been performed with a strong participation of the stakeholders and following PIANC’s Working with Nature philosophy. The location and site conditions of Bahía Blanca are of special importance for the new challenges faced by Argentina. These include the increase of efficiency in the farming areas of the country with its consequential climb on crops production, the potential development of one of the largest world’s proved reserves of shale gas and oil and the progressive transformation of the energy sector towards renewable sources. The planning was entirely produced around three main axes.

After a SWOT analysis, several key factors were identified to support the achievement of the Port Vision Bahia Blanca 2040. These key success factors include Investment Climate, Port Governance, Environment & Sustainability, Connections & Logistic, and City & the Region. The active and strong participation of all the stakeholders to identify win-win solutions for each of the key success factors was already one of the achieved milestones during the Strategic Planning process. However, the challenge remained on how the stakeholders will stay engaged at the same, surprisingly high, rate of participation.

Secondly, Fernando’s paper, ‘Design and Commissioning of the Filling and Emptying System for the Panama Canal Third Set of Locks’, exposed the design methodology for The Panama Canal Third Set of Locks. The design led by MWH Global (now part of Stantec), involved numerical and physical hydraulic modeling, to deliver the required filling and emptying system performance objectives. The presentation described the process, methodology, and tools employed to develop and validate the filling and emptying system design, from original concept through system commissioning. The requirements included maximum allowable filling and emptying times, maximum allowable water surface slopes in the locks, maximum allowable flow velocities in the conduits, and required water saving. Other limiting hydraulic parameters include no cavitation, no air entrainment, no water hammer, and minimal currents in the lock approach channels. The process was completed successfully and, after the approval of the system, the new locks started commercial operations on 26 June 2016.
Finally, Ingrid's presentation, 'Container Terminal Planning towards optimising Supply Chains Logistics', described solutions developed by container terminals located on the riverbanks of the City of Buenos Aires and Dock Sud, both located upstream of the River Plate estuary in Argentina. Main container terminals of Argentina are located in this area for historical reasons, but also because most of the origin-destination of the containerised merchandises are located within the Metropolitan Area of Buenos Aires, an urban conglomerate with more than 14 million inhabitants. Hence, to overcome these physical constraints due to the geography where the terminal is located, it is required to develop creative engineering solutions that aim to optimise the planning of the terminal and all the involved logistics.

Ingrid explained how port terminal planning is implemented in a practical way, and under complex scenarios, to develop efficient operational management strategies towards designing all logistic processes and cargo flows from the containerships to the delivery out of the terminal and vice versa. In this way, minimising operational times, through planning and management strategies in the short, medium and long term, positions a container terminal as a dynamic node of connections accompanying the development of more competitive markets in the region, increasing its economic value and strengthening the prosperity of the region that it serves.

Ingrid Klimann giving her presentation on 'Container Terminal Planning towards Optimising Supply Chains Logistics'

Trelleborg’s marine systems operation recently attended PIANC’s 2018 Congress, which took place in Panama City, Panama on 7-11 May 2018. As well as headline sponsorship of the event, the company provided Congress delegates with two technical presentations about materials technology best practice, the future of ports and piloting, and PIANC’s role within it.

Richard Hepworth, President of Trelleborg’s marine systems operation, said: “A huge thanks to those of you that joined our technical presentations at PIANC’s World Congress in Panama City earlier this month. As ever, it was great to catch up with industry peers and debate the innovations and developments that have emerged in the last four years.”

Mishra Kumar, Technical Director – Marine Fenders at Trelleborg’s marine systems operation delivered a technical presentation that highlighted the fact that many fenders supplied to critical projects across the globe may not be fit for purpose thanks to the ease at which unscrupulous manufacturers can dupe fender performance testing results. Kumar discussed the need for improved guidelines to enable the independent authentication of fender performance and provided an overview of a new, more accurate verification test, which Trelleborg has long called for.

Tommy Mikkelsen, Managing Director of Trelleborg marine systems’ Danish operations, also took to the stage to discuss how ports and vessel performance will be further shaped by data and smart technologies. Mikkelsen showcased current case studies and highlighted a number of new technical innovations that the company is evolving to support data-driven best practices.

On stand, visitors were able to try Trelleborg’s newly updated online fender selection tool designed to allow specifiers to select and specify the most appropriate fender for their application.

“I am delighted to say that this proved a big hit with visiting consultants, engineers and designers, all keen to find out the extent to which they can make their jobs a little easier. So too did SafePilot, our flagship product within the navigation piloting category, as well as Automoor, our rope-free, automated mooring system.

“It’s safe to say that The PIANC World Congress was undoubtedly a hugely enjoyable and insightful event for all that attended. A huge thank you to PIANC for organising and of course those of you that came to see us on stand. I look forward to the next one!” added Hepworth.

Matias Palma
YP-Com Delegate PIANC Argentina
To try Trelleborg’s new Fender Selection Tool, visit: https://bit.ly/2rK6wQf.

Chris Sanders
Trelleborg

Xth Argentine Congress of Port Engineering and YP-Com Buenos Aires 2018 meeting

The Xth Argentine Congress of Port Engineering, organised by PIANC Argentina and AADIP (Asociación Argentina de Ingenieros Portuarios) was held in Buenos Aires, on 18-20 April 2018. Coincidently, PIANC Argentina Young Professionals (YPs) gathered for their 1st meeting of the year (of 3 meetings to be held yearly in Argentina, one for each main region of the country).

The Xth Argentine Congress of Port Engineering gathered 158 professionals from Argentina and neighbouring countries, 30 of them being YPs. The event addressed issues related to port and terminals planning, renovation projects of urban port areas, infrastructure structural design, environmental aspects in maritime and fluvial infrastructure projects, among others.

The YPs presented 5 of the 17 papers of the Congress: Ezequiel Walter discussed planning and design aspects of the 3rd liquid bulk jetty in the Port of Bahía Blanca; Leandro Pitton provided insights into the construction of a new breakwater, part of the Modernization Plan of the Port of Buenos Aires; Ingrid Klimann shared her work on how to elaborate flexible container terminal planning strategy in order to adapt to constant changes; Matias Palma presented about urban planning and Port-City relationship in the city of Rosario; and finally Marcos De Vicenzi shared with us the lessons learnt from the dredging of the outer harbour of the Port of Buenos Aires.

The second day, a session dedicated to PIANC was organised. Raúl S. Escalante first drew a general overview of the Association, then the ongoing work in the Commissions and the Working Groups were presented. This session offered a great opportunity to explain YP-Com activities in the country and the region, as well as the participation of YPs in several Working Groups.

In the evening, the YPs gathered for a social event hosted by ShibataFenderTeam, a PIANC Platinum Partner since 2017, which was an occasion to meet Young Professionals from Paraguay and Brazil and to encourage not-yet-members to be part of the PIANC community.

On the last day of the Congress, the attendees had a closing lunch.

To conclude the Congress, a technical visit at the Exolgan Container Terminal was organised by Ingrid Klimann. Marcelo Patat, Operations Manager of the terminal welcomed the 30 participants, of which 20 YPs,
with a comprehensive presentation of the terminal operations and processes. Then, the participants enjoyed a tour through the terminal, including the Primary Zone Yard where two Post-Panamax containerships were located at berths 2 and 3. The visit focused on showing the entire process of a container since its arrival to the terminal until it is loaded on the vessel.

Matias Palma
YP-Com Delegate PIANC Argentina

1st Edition of the PYCture Award by PIANC Spain

The Spanish Section of PIANC, ATPYC, celebrated the 1st Edition of its new award PYCture for the best three photographs of ports and coastal scenarios submitted during May by its members.

Almost 20 photographs were submitted, and 6 finalists were selected by the jury and publicly shared for 15 days on the new Instagram account of ATPYC (@atpyc_pianc). The final 3 images that received the highest number of unique ‘likes’ won first, second and third place of the PYCture Award.

1st Place PYCture Award: Los Olvidados
(The forgotten ones)

2nd Place PYCture Award: Las piscinas de Guarachico
(The pools of Guarachico)

3rd Place PYCture Award: Atardecer en la Bahía de Santander
(Sunset on Santander Bay)

The incentives for this new award were primarily to encourage the participation of members, to launch the new Instagram account of the Association, and to help ATPYC to compile interesting images that can be shared with partners during the coming months and to provide content for the home page of the ATPYC website.

Rodrigo Moltó
PIANC Spain

The Adaptation Futures 2018 conference, held in Cape Town, South Africa, attracted more than 1,300 participants from across a wide range of sectors. Much of the conference dealt with the research aspects of
climate change adaptation concepts, tools and methodologies, but there were also some papers from practitioners, including consultants, and from the funding agencies.

Jan Brooke’s presentation, in the ‘Tool Shed’ session on Planning and Infrastructure described the main steps in the methodological framework being developed by PIANC’s Working Group 178. The presentation was well-received, and it was reassuring to hear from the discussion (not only in this session but throughout the conference) that other sectors are following a similar path. A presentation on an evolving adaptation guidance for the hydropower sector, for example, set out a very similar sequence of steps.

There were also several presentations covering resources that will provide useful input for port and navigation owners and operators as they begin to adapt to the changing climate. Of particular interest, the World Bank presented its Climate Change Knowledge Portal which can be found at http://sdwebx.worldbank.org/climateportal/. This tool facilitates access to country or city specific data on climatic baseline conditions and future projections, notably for temperature and precipitation, but with evolving datasets on other parameters such as observed sea level rise. World Bank also introduced ThinkHazard! a joint initiative with the Global Facility for Disaster Reduction and Recovery (see http://thinkhazard.org/en/). ThinkHazard! is a simple flagging system designed to highlight the nature of hazards, including climate hazards, that are present in a particular area. The searchable database enables the user to access city, region or country-specific classifications for hazards including river, urban or coastal flooding, cyclone, extreme heat and drought.

Many presentations at the conference highlighted the vital role that ‘Working with Nature’ type solutions will play in climate change adaptation. In particular, it was stressed that ecosystem-based adaptation options that capitalise on nature’s resilience can help both the natural environment and infrastructure adapt to climate change.

And finally, the urgency of adaptation, especially identifying and implementing no- and low-regret measures, and the need for wider dialogue between the research, policy and transport sectors were two of the key messages from delegates at the closing session of particular relevance to PIANC and the Navigating a Changing Climate community.

Jan Brooke
EnviCom Mentor for WG 178

Jan Brooke Attends 11th International Harbour Masters Congress on behalf of PIANC

In June 2018, Jan Brooke attended the 11th International Harbour Masters Congress on behalf of PIANC. The theme of the Congress, held in London, UK, was ‘Ports: Essential for Safe, Efficient and Secure Global Trade’. This theme proved a perfect platform for reference to PIANC’s Working Groups, and many speakers took the opportunity to refer to our published and in-progress technical reports during their presentations. Jan continued on this theme, focussing on the work of PIANC Working Group 178 on climate change adaptation for ports and inland waterways, but also taking the opportunity to introduce the work of the PIANC-led Navigating a Changing Climate initiative. PIANC’s sister association, IHMA, is an active participant in this initiative and is also represented on WG 178.

Jan Brooke
EnviCom Mentor for WG 178
Secretary of PIANC Poland Visits PIANC HQ

Always nice to meet some PIANC friends at PIANC Headquarters in Brussels! At the end of May 2018, Mr Lucjan Gucma, Secretary of PIANC Poland, paid a visit to Mr Van Cappellen, Secretary-General of PIANC. They had a nice talk about PIANC in Poland and discussed a few items.

Mr Gucma and Mr Van Cappellen

PUBLICATIONS

Just Shipped

The following publication was published in June 2018:

- **Book of Abstracts & Full Papers 34th PIANC World Congress Panama**: download your copy at [http://pianc.info/proceedings](http://pianc.info/proceedings).

Publications Pipeline

The following publications will be published in July/August 2018:

- **WG 176 (EnviCom)**: ‘Guide for Applying Working with Nature to Navigation Infrastructure Projects’
- **WG 166 (InCom)**: ‘Inflatable Structures in Hydraulic Engineering’
- **TG 181**: ‘The State and Perspectives of Waterborne Transport Infrastructure Worldwide’

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ON THE CALENDAR

7th National Congress of the Spanish Section of PIANC (ATPYC) and the 4th edition of the Mediterranean Days

In October 2018, the Spanish Section of PIANC (Technical Association of Ports and Coasts, ATPYC) will organise the 7th edition of its National Congress in Seville, Spain. This is an event that has established itself as the reference event among the Spanish technical community in the port and coastal sector, as evidenced by the great interest it arouses amongst the professionals, both in terms of the number of delegates attending and the quantity and quality of abstracts presented to the paper selection process.

This edition of the National Congress will be organised simultaneously with the 4th edition of the Mediterranean Days of PIANC, an initiative which is led jointly with the Italian and French Sections of PIANC, but aims to be open to other nations in the Mediterranean area and to the whole PIANC community.

The slogan for this edition is ‘Working with Nature’, a philosophy started years ago by PIANC, which is strategic for the future of our profession.

For further information, please visit http://www.atpyc2018.com.

Rodrigo Moltó
PIANC Spain

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