Activities of MarCom

Francisco Esteban Lefler
Chairman of MarCom

Tokyo, September 13, 2013
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PIANC
The World Association for Waterborne Transport Infrastructure

Vision:
PIANC shall enhance its position as the leading international source of waterborne transport infrastructure related knowledge

Mission:
PIANC shall continue to provide expert guidance and technical advice through high-quality technical reports and will keep the international waterborne transport community connected through a variety of products on a global scale

Source: PIANC Strategic Plan
PIANC

MarCom in PIANC

General Assembly

Council

Vice Presidents
PIANC President
Secretary General

PIANC HQ

ExCom

Technical Commissions

InCom MarCom RecCom EnviCom CoCom FinCom YPCoM ProCoM
# PIANC Members

Chairman: Francisco Esteban Lefler (Spain)  
Secretary: Dominique Etienne (France)

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<tr>
<th>Country</th>
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<tr>
<td>Belgium</td>
<td>Luc Van Damme</td>
<td>India</td>
<td>Bhuvaragan Poiyaamozhi</td>
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<td>Hadewych Verhaeghe (YP)</td>
<td>Iran</td>
<td>Ali Akbar Safaai</td>
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<td>Colombia</td>
<td>Gerardo Castaño</td>
<td>Italy</td>
<td>Andrea Ferrante</td>
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<td>Juan Francisco Herrera</td>
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<td>Denmark</td>
<td>Hans F. Burcharth</td>
<td>Japan</td>
<td>Yoshiaki Higuchi</td>
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<td>Egypt</td>
<td>Adel Banawan</td>
<td>Korea</td>
<td>Taek Hee Han</td>
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<td>Finland</td>
<td>Veikko Saukkonen</td>
<td>The Netherlands</td>
<td>Arjan van der Weck</td>
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<td>Kim Andersson-Berlin (YP)</td>
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<td>France</td>
<td>Dominique Etienne</td>
<td>Norway</td>
<td>Tore Lundestad</td>
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<td>Germany</td>
<td>Stefan Hauser</td>
<td>Spain</td>
<td>Rafael Escutia</td>
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PIANC

Members (II)

Sweden: Kjell Karlsson
Mattias Sandell

United Kingdom: Peter Hunter
Stephen Cork (alt)

U.S.A.: E. Dan Allen
Vahan Tanal (alt.)

Turkey: Burak Bilgin (2013)

YPCom Observer: Javier Almazán (2013)

IAPH: Fer M. J. van de Laar

28 Members, of which:

• 19 National Sections
• 1 IAPH
• 4 Alternate
• 3 YP’s
• 1 Chairman

And coming soon: Poland

Poland
Professional Profile of MarCom members:

• Public Administrations within the Port sector
• Port Authorities
• Specialized Technological Centres (Public and Private)
• Consultants and Engineering Companies
• Dredging Companies
• Construction companies
• Navigation Authorities
Commission members:

- National Sections can designate:
  - 1 Representative
  - 1 Alternate
  - 1 Young Professional

- Term: 4 years + 2 x 4 years + 4 years (should be approved by ExCom)
- Chairperson: designated by the Council
  - Term: 4 years + 2 x 4 years (ExCom)
- Vice-chairperson (Commission and ExCom)
- Secretary (Chairperson)
Main activities of PIANC Technical Commissions

- Execute parts of the Strategic Plan
- Generate, manage, coordinate and supervise Working Groups
- Propose subjects for Congresses and Conferences
- Take initiatives to produce articles for the Magazine “On Course”
- Report on its technical and non-technical activities (web, PIANC Yearbook, “Sailing Ahead”,...)
- Implement agreements of PIANC with Sister Associations
- Oversee projects carried out by experts
- Participate in relevant internal and external conferences, seminars, workshops, debates, etc.
- Seek funding for PIANC activities
- Advice PIANC President and General Secretariat
- Charge sub-Commissions or Task Groups with specific tasks
Specific Activities of MarCom

- Deal with Maritime Ports and Seaways issues
- Cooperate with other Commissions in topics of common interest (inland or recreation navigation, environmental issues, etc.)
- Cooperation and communication with other international organizations as:
  - IMO
  - IAPH
  - WODA
  - Etc.
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MarCom Meetings 2012:
• Brussels – PIANC HQ January 31st and February 1st.
• Wilhelmshaven – Germany on September 20th and 21st, followed by a technical visit to the new deep water container port in Wilhelmshaven “JadeWeserPort”

MarCom Meetings 2013:
• Brussels – January 29th and 30th
• Sendai – Japan on September 11th and 12th followed by a MarCom Seminar in Tokyo (September 13th)

MarCom Meetings 2014:
• Brussels, February
• Probably Venice (Italy), September
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Topics usually addressed in MarCom meetings

- Report on general PIANC news and issues
- MarCom composition
- Follow-up of Action Plan derived from PIANC Strategic Plan
- Working Groups:
  - Analysis of the status
  - Presentations of ongoing WG’s
  - Discussion of interim or final draft reports
  - WG’s in formation
  - New Terms of Reference for WG’s
- Cooperation with other Commissions and Sister Associations
- Other MarCom issues:
  - Improvements on WG management process
  - Future areas of activities
  - .........and many more issues
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Technical Visit September 2011 : Hurricane Surge Barrier in New Orleans (USA)
Technical Visit September 2012: Deep water container Port in Wilhelmshaven (Germany)
PIANC

Working Groups (approx. 2 years)

- Members (Experts designated by National Sections):
  - 1 Representative
  - 1 Alternate
  - 1 Young Professional

- Working Group members can be:
  - Individual PIANC members
  - Employees of Corporate members
  - Member of Sister Organizations
  - Invited experts

- Possibility for Corresponding members
- Chairperson appointed by Chairperson of supervising Commission
- MarCom mentor
PIANC WORKING GROUPS (2)

FIRST ACTIVITIES

WG Chairperson

WG

Kick-off meeting

Relations of MarCom and MarCom Chairperson with the WG will be conducted:
- Through MarCom Mentor of the WG
- With the assistance of MarCom Secretary

In 3 months in PIANC HQ
Coordinated with PIANC SG

Discussion ToR and propose changes
Study plan for 24 months
Meeting Schedule
Designate WG Secretary

Press Release Sailing Ahead

Consultation with MarCom

MarCom Chairperson

ExCom

Approval

Approve

 WG
PIANC

MARCOM WORKING GROUPS (3)

WORKING GROUP STANDARD ACTIVITY

WG

Interim Draft

Presentation to MarCom

Revision/Approval

MarCom Chairperson and Secretary

Final Draft Report

Revision/Approval

MarCom

WG Chairperson, WG

MarCom

Feedback to WG

Table of Contents

WG

MarCom

Revision/Approval

Progress Report (Twice a year)

MarCom mentor and Secretary

WG Secretary

Submit

Final Draft report

PIANC Rules and Regulations

PIANC Rules and Regulations (optional)

Proposed as MarCom practice
Participation in Working Groups

Associations: IAPH, FIB (Fédération Internationale du Beton – The International Federation for Structural Concrete)
MarCom WG 115
(WG 52) ‘Criteria for the (un)loading of Container Vessels’
(Chairman: Mr Mohns)
MarCom WG 115 Criteria for the (un)loading of container vessels

• Set updated criteria for maximum allowable movements taking into consideration:
  • Increasing vessel size
  • Use of more exposed locations
• Factors affecting (un)loading efficiency
  • Ship motion driving factors
  • Container ships characteristics
  • Ship mooring
  • (Un)Loading process
• Development of motion criteria associated to efficiency levels
• Application of motion criteria
MarCom WG 116

(WG 55) ‘Safety aspects affecting the berthing operations of Tankers to Oil and Gas Terminals’

(Chairman: Mr Thoresen)
MarCom WG 116 Safety aspects affecting the berthing operations of tankers to oil and gas terminals

- Safety management and risk assessment applied to port transit, towage, pilotage and passage planning
- Environmental conditions and forces
- Transit from open sea to terminals (approach channels, tug assistance, clearances, manoeuvring areas, locks,...)
- Berthing and mooring systems
- Space for safe berthing
- Acceptable metocean conditions for safe(un) berthing
- Operational safety
- Nautical port information
- Ship characteristics
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WG-reports published in 2012 - 2013

MarCom WG 117
(WG 54) ‘Use of Hydro/Meteo information for Port Access and Operations’
(Chairman: Mr O’Brien)
PIANC

MarCom WG 117 Use of Hydro/Meteo information for Port Access and Operations

- Hydro/Meteo system requirements for various end-user needs:
  - Vessel access
  - Anchorage
  - (Un) Berthing
- Offshore moorings and terminal operations
- Search and Rescue, spill control
- Systems for measure, acquisition and management of Hydro/Meteo data (reliability and accuracy)
- Recommendations on the use of the information for the various end-users
- Case Studies
PIANC

WG-reports published in 2012 - 2013

MarCom - Incom EG 118

‘Direct Access to Maritime Ports by adapted Inland Waterway Vessels’

(Chairman: Mr Caude)
MarCom-InCom EG 118 Direct Access to maritime ports by adapted inland waterway vessels

- Case Studies in Europe, U.S.A. And China
- Methods use to improve safe access:
  - Wave and wind analysis and environmental forces
  - Evaluation of restricted seaworthiness of inland vessels in maritime area, risk analysis for the vessel
- Practice analysis
- Recommendations
MarCom WG 120

WG 51 ‘Injection Dredging’

(Chairman: Mr. Smits)
Theoretical analysis and physical principles
Natural boundary conditions required
Typical applications:
  - Maintenance dredging
  - Shallows in sandy rivers
  - Cleaning of locks, jetties and pipelines
  - Levelling of hopper tracks and trimming of slopes
Available equipment
Environmental considerations
Monitoring (operational, contractual and environmental)
Contractual considerations
Case Studies
WG-reports expected to be ready for publication in 2013:

Publication “Tsunami Disasters in Ports due to the Great East Japan Earthquake” (Ready in HQ)

WG47 ‘Criteria for the Selection of Breakwater Types’

WG48 ‘Guidelines for Port Constructions related to Bow Thrusters’

WG49 ‘Harbour Approach Channels Design Guidelines’

WG135 ‘Design Principles for Container terminals in Small and Medium Ports’

WG144 ‘Classification of Soils and Rocks for the Maritime Dredging Process’
Other active WG’s in 2013:

WG145  ‘Berthing Velocities and Fender Design’
WG152  ‘Guidelines for Cruise Terminals’
WG153  ‘Recommendations for the Design of Marine Oil Terminals’
WG158  ‘Master Plans for the Development of Existing Ports’
WG159  ‘Renewable Energy for Maritime Ports’
EG160  ‘Overview of Design Codes and Guidelines for Harbour Structures’
WG161  ‘Interaction between Offshore Wind Farms and Maritime Navigation’
WG162  ‘Recommendations for Increased Durability and Service Life of marine concrete infrastructure’
WG165  ‘Design and maintenance of Container terminal Pavements’
WG’s in formation:

WG164 ‘Upgrade of Port terminals by increasing dredged depth’

WG167 ‘Design of Terminals for RoRo and RoPax vessels’

WG 171 ‘Ship Handling Simulation dedicated to Channel and Harbour Design’

WG 172 ‘Design of small and medium LNG Terminals including bunkering facilities’
PIANC

Co-operation with other Commissions:

- Permanent Task Group on Climate Change (PTG CC)
- Working with Nature
- Working with Nature Awards (EnviCom)
- InCom (WG156): ‘E-Navigation for Inland Waterways’
- InCom (WG155): ‘Ship behaviour in Locks and Locks Approaches’
- InCom (WG140): ‘Semi-Probabilistic Design Concept for Inland Hydraulic Structures’
- EnviCom (WG136): ‘Sustainable Navigation’
- EnviCom (WG150): ‘Green Ports, a practical guide for a sustainable seaport’
- RecCom (WG147): ‘Guidelines for Facilitation and Integration among Recreational, Fishery and Commercial Navigation’
On behalf of MarCom colleagues:

Thank you for your attention!