

PIANC Maritime Navigation Commission (MarCom) - Update of Activities Internationally and in Australia & New Zealand (ANZ)

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Summary

The Paper outlines the purpose and activities of the Maritime Navigation Commission (MarCom), the global and regional representation, recently published Working Group (WG) reports, and WG reports in progress.

Keywords: Maritime Navigation Commission (MarCom), Working Group Reports

Introduction

The Maritime Navigation Commission (MarCom) is one of the Commissions of PIANC.

PIANC has 8 commissions effectively reporting to its Executive Committee. Of those 8, 4 are Technical Commissions which includes MarCom. The ANZ national section also participates in 2 of the other 3 Technical Commissions, namely the Recreational Navigation Commission (RecCom) and the Environmental Commission (EnviCom). The remaining Technical Commission is the Inland Navigation Commission (InCom).

The reports prepared by Working Groups in each of the Technical Commissions provide industry standards and are adopted by Governments, companies, and industry.

MarCom is responsible for dealing with maritime ports and navigation channels issues of interest to PIANC. MarCom co-operates with a number of other international organisations including:

- International Maritime Organization (IMO);
- International Association of Ports and Harbors (IAPH);
- International Association of Lighthouse Authorities (IALA);
- International Harbour Masters Association (IHMA);
- International Association for Hydro-Environment Engineering and Research (IAHR);
- International Hydrographic Organization (IHO);
- International Maritime Pilots Association (IMPA);
- World Organization of Dredging Associations (WODA); and
- Oil Companies International Marine Forum (OCIMF).

It is the intention of the Commission to update existing reports to industry best practice and latest information, and produce new reports where there is identified need for members and industry.

The core activities are the setting up and management of:

- Working Groups, for publication of reports;
- Industry Seminars;
- Outreach activities within PIANC events and with sister associations.

MarCom International and ANZ

MarCom includes international experts appointed by PIANC National Sections, Qualifying Members, and Sister Associations. Members come from a wide representation including Government/Ports, Dredging and Construction companies, Industry and Academia. The current membership of MarCom includes 55 members from 25 countries, comprising Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Columbia, Denmark, Ecuador, Finland, France, Germany, India, Iran, Italy, Japan, Netherlands, Norway, Portugal, Philippines, South Korea, Spain, Sweden, United Kingdom, and USA.

The current Chair of MarCom is Egbert van der Wal from the Netherlands.

The representative on MarCom from ANZ is Scott Keane, scott.keane@cardno.com.au, who can be contacted for all matters related to the activities of the Commission. Scott is also the Mentor on 2 present Working Groups. In addition, Gildas Colleter from Australia, gildas.colleter@watertech.com.au, has been appointed to MarCom as the Climate Change Champion. The main role of the climate change champions is to provide:

- Relevant expertise on climate change issues for the work of the Commissions;
- A link between the Commissions and its activities and PIANC's Permanent Task Group on Climate Change (PTGCC); and
- A conduit for the flow of technical and scientific information regarding climate change within PIANC.

MarCom meets several times a year, generally quarterly, to discuss progress on Commission activities including presentations on Working Group reports, identification of new content / topics and thereafter Terms of Reference for new Working Group reports, upcoming events, and general member news. Between meetings there is ongoing review of Working Group report content prior to approvals and recommendation to headquarters for publication.

Vacancies currently exist for an ANZ Alternate representative (AL) and Young Professional representative (YP) on MarCom.

Recently Published MarCom Working Group Reports

Preparation of Working Group (WG) reports by industry expert members of PIANC MarCom are one of the core activities of PIANC, as noted earlier. When establishment of a new Working Group is approved, nominations for appointment to the Working Group are called. Members of PIANC ANZ are strongly encouraged to respond.

Recent WG publications are as follows:

- MarCom WG159: Renewables and Energy Efficiency for Maritime Ports (2019);
- MarCom WG184: Design Principles for Dry Bulk Marine Terminals (2019);
- MarCom WG185: Ports on Greenfield Sites – Guidelines for Site Selection and Masterplanning (2019);
- MarCom WG208: Planning for Automation of Container Terminals (2021); and
- MarCom WG145: Berthing Velocity Analysis of Seagoing Vessels Over 30,000 DWT (2022).

MarCom Working Group Reports in Progress including ANZ Representation

The following Working Group reports are in progress, with the first 7 expected to be ready for publishing in 2022. The majority of these Working Groups include involvement from ANZ members.

- WG153B: Recommendations for the Design and assessment of Marine Oil, Gas and Petrochemical Terminals;
- WG167: Design of terminals for RoRo and RoPax vessels;
- WG194: A Framework for Early Contractor Involvement in Infrastructure Projects;
- WG200: Recommendations for the design and assessment of SPM or MPM facilities;
- WG205: Design and construction of breakwaters in soft seabeds;
- WG215: Accidental Impacts from Ships on Fixed Structures (Update of InCom WG19);
- WG235: Ship Dimensions for planning and designing marine infrastructures;

- WG164: Upgrade of Port Terminals by increasing dredged depth;
- WG171: Ship Handling Simulation Dedicated to Channel and Harbour Design;
- WG180: Guidelines for protecting berthing structures from scour caused by ships (review);
- WG186: Mooring of Large Ships at Quay Walls;
- WG187: Protection of Undersea Pipelines and Cables in Navigable Areas;
- WG199: Health monitoring for Port and Waterway structures;
- WG211: Update of WG 33 – Guidelines for the design of fender systems;
- WG212: Update of WG 24 – Criteria for acceptable movement of ships at berths;
- WG213: Design guidelines for marine multipurpose terminals;
- WG224: Planning of Fishing Ports;
- WG225: Seismic Design Guidelines for Port Structures;
- WG231: Mooring Bollards & Hooks: Selection, maintenance and testing;
- WG232: Metocean-related risks during the construction of marine works;
- WG233: Inspection, maintenance & repair of waterfront facilities;
- WG238: BIM Marine Projects;
- WG239: Tsunami mitigation in Ports;
- WG240: Guidance for ports in small island countries;
- WG243: Design, Maintenance and Sustainability of Container Terminal Pavements;
- Temporary Task Group for A guideline for the planning and implementation of Shore Power Connections; and.
- Safety by Design and Executions, Best practices and guidance for marine infrastructure projects.

Conclusion

MarCom is the PIANC Technical Commission with a focus on maritime ports and navigation channels.

Members of PIANC ANZ are strongly encouraged to respond to calls for nominations to participate in Working Groups.