



PIANC USA

The US Section of the World Association for
Waterborne Transport Infrastructure



PIANC Overview

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June 3, 2020



World Association for Waterborne Transport Infrastructure - PIANC

The global organization providing guidance for sustainable waterborne transport infrastructure for ports and waterways

- **PIANC is the forum where professionals from around the world join forces to provide expert advice on cost-effective, reliable and sustainable infrastructure to facilitate the growth of waterborne transport.**
- Established in 1885, PIANC is the longest-standing organization in its field and continues to be the leading partner for governments and the private sector in the design, development and maintenance of ports, waterways and coastal areas.



PIANC Mission

**To remain the
leading
international
source
of waterborne
transport-related
information in the
21st century**

- **To provide expert guidance and technical advice**
 - Bringing together the best international experts, both public and private, on technical, economic and environmental issues pertaining to waterborne transport infrastructure
 - High-quality *technical reports*
 - International *commissions and working groups*
- **To keep the international waterborne transport community connected**
 - Quadrennial **International Congresses**
 - Quadrennial **PIANC-COPEDEC International Conferences on Coastal and Port Engineering in Developing Countries**
 - Biennial **SmartRivers Conferences**
 - E-Newsletter **“Sailing Ahead”**
 - PIANC International website: **www.pianc.org**
- **To support young professionals and countries in transition**



Membership

More than 2,000 Individual Members
(professionals and students included)

More than 450 Corporate Members
(port authorities, engineering consulting firms, universities, other public- and private-sector organizations)
and 5 Platinum Partners

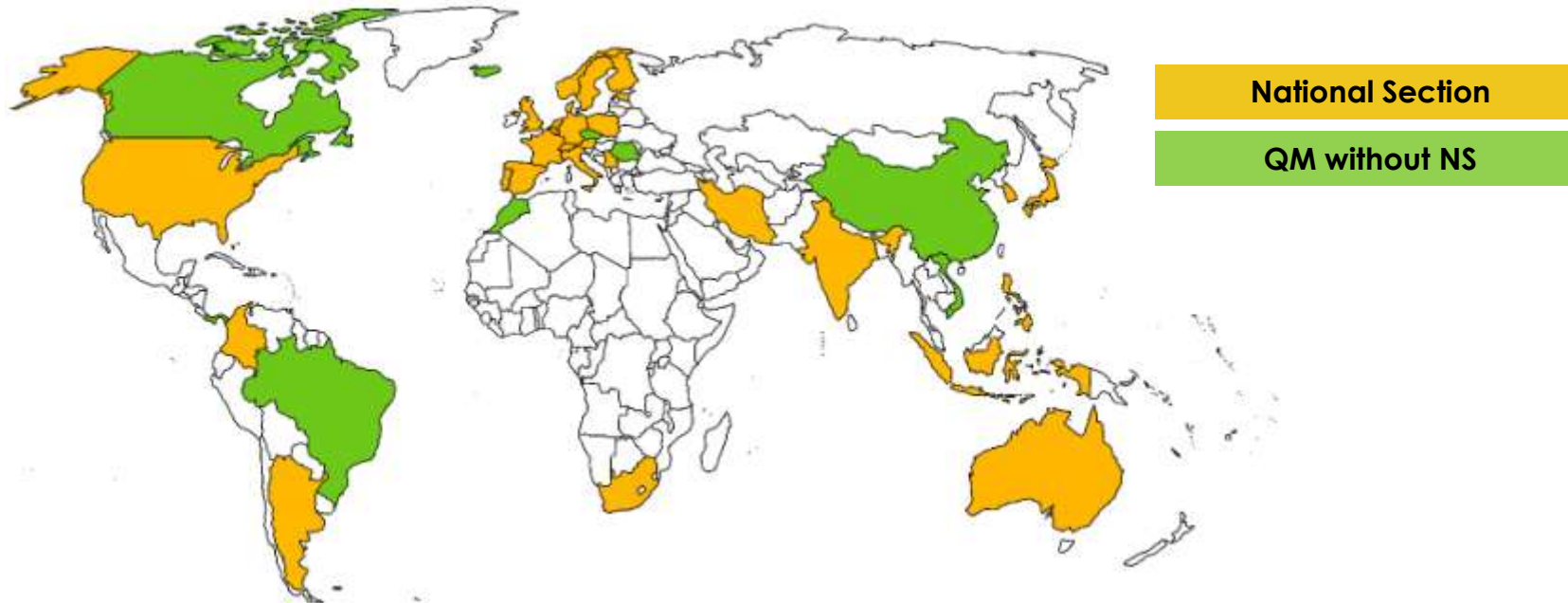
40 Qualifying National Members
(i.e. governmental and
non-governmental organizations representing a country)



Membership

40 Qualifying Members of which 27 have a National Section

(i.e. governmental and non-governmental organisations representing a country)



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(Professionals and Students included)

more than 450 Corporate Members
(port authorities, chambers of commerce,
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private-sector organisations)



National Members

- Argentina
- Australia
- Austria
- Belgium
- Brazil
- Canada
- CCNR (Rhine Commission)
- P.R. China
- Czech Republic
- Colombia
- Denmark
- Estonia
- Finland
- France
- Germany
- Iceland
- India
- Indonesia
- Iran
- Italy
- Japan
- Korea
- Monaco
- Morocco
- The Netherlands
- Norway
- Panama
- Philippines
- Poland
- Portugal
- Romania
- Serbia
- Singapore
- South Africa
- Spain
- Sweden
- Switzerland
- United Kingdom
- United States
- Vietnam



PIANC USA Goals

1. Lead and Support PIANC International
2. Promote Technical Information Exchange on Waterborne Transport Infrastructure
3. Increase the Value, Relevance, and Impact of PIANC in the U.S. and the World



PIANC USA

- U.S. has been a member of PIANC since 1902
- USACE provides the Secretariat for the U.S. Section, housed at IWR
- ASA (CW) and DCG-CEO serve as Chair and President, respectively
- Dr. Joe Manous (IWR) serves as US Secretary





US NATIONAL COMMISSION

- Eight US Commissioners:
 - Lillian Almodovar, retired USACE Economist
 - Ron Coles, W.R. Coles & Assoc.
 - Mike Leone, former MassPorts Director
 - Jim Marino, Taylor Engineering, Inc.
 - Jessica McIntyre, Moffatt & Nichol
 - Nick Pansic, Stantec
 - Ed Schmeltz, AECOM (also PIANC International VP)
 - Jim Walker, Director of Navigation Policy and Legislation for the American Association of Port Authorities (AAPA)





Commissions



Inland Navigation, InCom
Chair Phillippe Rigo (Belguim)

Focus: Inland Navigation

Maritime Navigation, MarCom
Chair Egbert van der Wall
(Netherlands)

Focus: Maritime Ports and
Seaways

Environmental, EnviCom
Dr. Todd Bridges (US)

Focus: Navigation sustainability
and environmental risk-related
issues like Climate Change and
Working with Nature

Recreational Navigation, RecCom
Chair Esteban Biondi (US)

Focus: Recreational Navigation,
marinas, etc.

International Co-Operation,
CoCom
Chair Ed Schmeltz (US)

Focus: PIANC conferences and
country membership

Young Professionals, YPCom
Chair Andrew Thomas (US)

Focus: Networking and
participation in Commission and
Working Group meetings



U.S. PARTICIPATION ON TECHNICAL WORKING GROUPS

- Three Representatives (1 principal, 1 alternate, and a Young Professional Observer) on all Four Technical Commissions
- Approximately 90 Members Participating on Active Working Groups
- Young Professional Representatives on 15 Working Groups

PIANC USA participates in virtually all WGs





Technical Reports



The Core Business of PIANC

- Provide ***state-of-the-art guidance*** on waterborne transport-related topics for professionals
- Reports are drafted by ***international working groups*** supervised by a commission
- 46 of these working groups are active at present; U.S. participating on nearly all of them
- Reports now published electronically

EnviCom: Membership

Chairman: Dr. Todd Bridges, USA

Secretary: Mr. Edward Brauer, USA

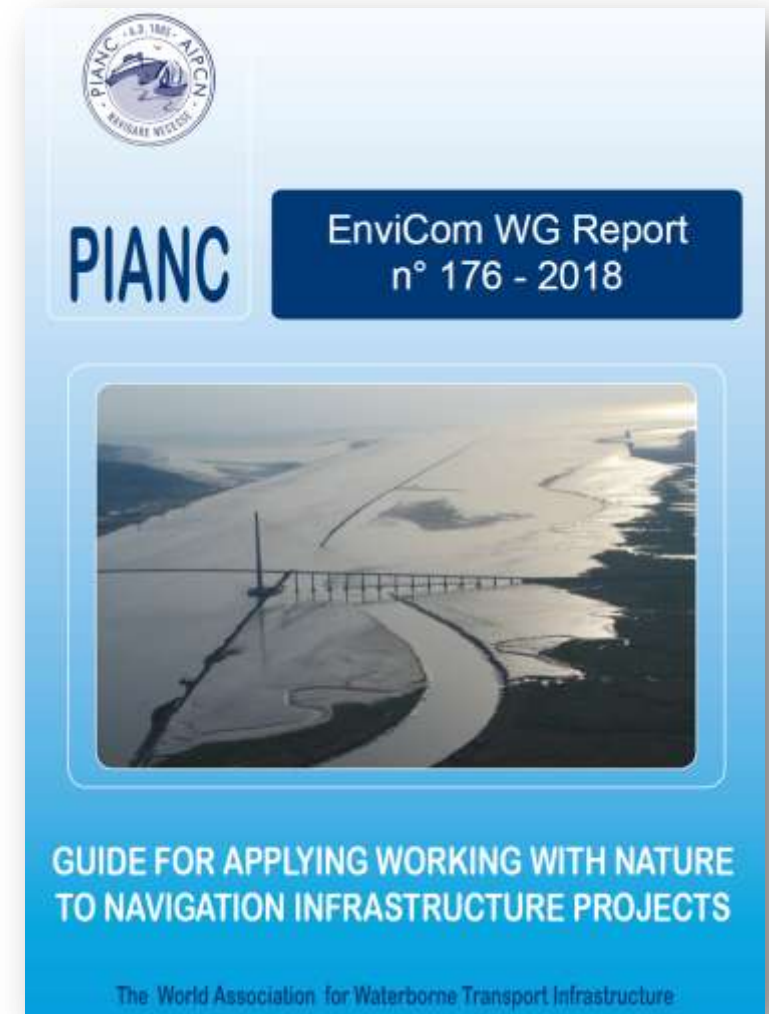
34 members from 17 nations and 7 partner organizations

National Sections

Argentina	Japan
Australia	Netherlands
Belgium	Norway
Columbia	Philippines
France	Spain
Finland	South-Korea
Germany	UK
India	USA
Iran	

Partners

CCNR
CEDA
EUDA
IAPH
IADC
INE
Ports Australia



EnviCom: Mission

Provide practical, science-based guidance to shape and inform future environmental practice in the development and operation of sustainable navigation infrastructure

Goals

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



EnviCom: Goals

Goal 1: Develop best practice guidance to create environmental value through sustainable, resilient navigation infrastructure

- Develop practical methods for implementing sustainability and resilience
 - Dual approach: conserve and create environmental value
- Promote Working with Nature across the navigation sector
 - Engineering With Nature, Building with Nature, Natural Infrastructure, Natural and Nature-Based Features
- Develop strategic partnerships across sectors and organizations

Outcome: Expanding influence on the navigation sector and its stakeholders



EnviCom: Goals

Goal 2: Integrate best environmental practice into navigation planning, engineering and operations

- Collaborate across PIANC Technical Commissions
 - Pursue opportunities at the interface of disciplines and interests
- Develop strategic partnerships with engineering organizations
- Recruit professional engineers with environmental focus
- Focus working groups on the most relevant engineering challenges and opportunities

Outcome: Expanded and diversified PIANC membership shaping future environmental practice



EnviCom: Goals

Goal 3: Use strategic communications to expand PIANC's reach, engagement, partnering, and impact

- Develop focused understanding of environmental needs and opportunities
- Expand outreach and communication with key environmental agencies, groups and stakeholders
- Develop key messages and effective means for sharing messages and products
 - Workshops, website, videos, etc.

Outcome: Broader reach and greater impact of PIANC products



EnviCom: Major Work Themes

- Enhancing the economic, environmental, and social benefits of infrastructure through sound environmental practice
- Support a proactive posture on climate change
- Promote the philosophy of 'Working with Nature'
- Support the application of risk-informed decision making to environmental management



EnviCom Working Groups: Ongoing

- **WG 157: “Environmental Aspects of Dredging Around Coastal Vegetation”** (Publication 2020)
- **WG 170: “Good Dredging Practice Around Marine Wildlife”** (Publication 2020)
- **WG 174 “Sustainability Reporting for Ports”** (Publication 2020)
- **WG 195 – “An Introduction to Applying Ecosystem Services (ES) for WTI Projects”** (Publication 2020)
- **WG 214: “Beneficial Use of Dredged Sediment”** Publication 2020/21)
- **WG 218: “The Implications of Invasive Alien Species for Waterborne Transport Infrastructure”** (Publication 2021)



EnviCom Working Groups: New

- **WG 226:** “A guide for assessing and managing effects of underwater sounds from navigation infrastructure activities”
- **WG 227:** “A guide for addressing and managing environmental restrictions on dredging and disposal operations”
- **WG 228 (InCom/EnviCom/RecCom):** “Extended values of ‘low use’ inland waterways”
- **WG 230:** “How to attract green funding for nature-based navigation infrastructure”





USACE REGULATIONS AND GUIDANCE

PRODUCTS

- Engineering Regulations
- Engineering Pamphlets
- Engineering Circulars
- Engineer Manuals
- Design Guides

INFORMED BY

- Engineer Research and Development Center, ERDC
- Technical knowledge, mostly district practitioners

INFORMED BY

- PIANC Technical Reports



USACE DISTRICT PARTICIPATION

- Eddie Brauer (MVS) EnviCom – Secretary of EnviCom
- Travis Adams (NWP), Paul Surace (LRP) InCom – Fatigue of Hydraulic Steel Structures
- Kathy Griffin (LRP) InCom – Developments in the Automation and Remote Operation of Locks

OTHER

- John Henrikson (Manson Construction) EnviCom – Environmental Aspects of Dredging
- Bill Hanson (GLDD) EnviCom – Best Practices, Sea Turtles and Mammals in Marine Waterway and Port Construction Activities



PIANC MEMBERSHIP INFO

- Student, under 30: \$40/year
- Individual: \$120/year
- Small Corporate Membership (under 20): \$600/year
- Large Corporate Membership (over 20): \$1150/year

Membership Privileges

- Access to PIANC reports library
- PIANC International and U.S. newsletters
- Complimentary or reduced cost registration to PIANC events
- Special Young Professionals (under 40) events and awards



SUMMARY

- If you aspire to be recognized as a technical expert
- Interested in national and international navigation issues
- Desire to see the 'big picture'
- Desire to contribute to the navigation body of knowledge

CONTACT

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