



CALL FOR ABSTRACTS

Future Ready Waterborne Transport – Unlocking Africa

29 April – 03 May 2024

CTICC, Cape Town, South Africa



www.piancworldcongress2024.co.za





ABSTRACT SUBMISSION IS NOW OPEN

The South African chapter of the World Association for Waterborne Transport Infrastructure (PIANC SA) is pleased to announce Abstract Submissions for the 35th PIANC World Congress 2024 is Now Open! The Congress will take place, in the beautiful city of Cape Town, South Africa on 29 April – 03 May 2024.

On behalf of the Planning Committee, we would like to invite you to contribute to and participate in this prestigious event.

PIANC is the global organisation providing guidance and technical advice for a sustainable waterborne transport infrastructure to ports, marinas and waterways. Established in 1885, PIANC is one of the oldest technical Associations that has changed noticeably over the years, adapting to the respective contemporary requirements of issues pertaining to waterborne transport infrastructure. Some of the 21st century's challenges involve sustainable development, climate change, the need for working with nature and digitalisation. This feeds directly into the aim, theme and sub-themes of this Congress.

The theme of the Congress is: ***“Future Ready Waterborne Transport – Unlocking Africa”***. The theme aims to address the works necessary in creating a sustainable maritime sector, with a preferred focus on Africa.

The congress will include presentations of technical papers in all practices of the waterborne transportation environment, including project management, consulting, construction, and research and development.

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RANGE OF SUB THEMES AND TOPICS

1 Overcoming Africa's waterborne transport challenges

- a Creative maintenance solutions in ports
- b Alternative funding methods for developing greenfields projects
- c Inland waterways in Africa
- d Solutions for addressing climate change in existing ports
- e Refurbishment of old port infrastructure to accommodate the export of green fuels
- f Smart ports vs ageing infrastructure
- g Multi national export corridors for land locked countries
- h Other

2 Dredging (in the framework of port and navigation projects):

- a Effective planning and execution of dredging projects
- b Lessons learned from dredging projects worldwide
- c Risk management in dredging projects
- d Disposal site planning taking into account alternative land uses
- e Current dredging & management innovations
- f Other



3 Logistics & Infrastructure:

- a** Challenges for capitalizing navigational channels bordering lands
- b** Synergies among airports, ports and inter-modal assets
- c** Integrated management of global supply chains
- d** Integrating ports and economic special Zones
- e** Dry ports and Inter-modal connections
- f** Provision of added value logistic services in maritime hubs
- g** Inland waterways worldwide
- h** Other



4 Ports

- a** Impact and innovative solutions for hinterland ports
- b** Ports of the future: technologies, automation, traceability
- c** Port management models
- d** Maritime Port planning and operations
- e** Coastal and Port Engineering (in relation with navigation)
- f** Dry docks and ship repair, ship building, ship repair, offshore industry
- g** Developments in the design and use of alternative / greener construction materials in marine infrastructure
- h** Other

5 Marinas and small craft harbours:

- a Sustainable and resilient marina design-Marinas Working with Nature (best practices and case studies)
- b Marinas as part of Tourism, Ports and Urban Master Plans (best practices and case studies)
- c Planning Framework for Recreational & Tourism Navigation Infrastructure Systems (goals, strategies and challenges)
- d Regulatory Framework and Private Marina Development in Countries in Transition (best practices and case studies)
- e Regional Cooperation and Standardization of Recreational Navigation Information Systems Transition (best practices and case studies)
- f Recreational components of mitigation plans for large navigation infrastructure projects
- g Other

6 Environment:

- a Environmental management in navigation
- b Climate change and emissions, energy efficiency, international regulations, carbon markets
- c Fresh water availability for operations
- d New technologies on infrastructure, pollution prevention, port reception facilities and ballast water
- e Multiple purpose water resource systems (transport, energy, recreation, ecosystems, watersheds, potable water, ...)
- f Navigation as a green transportation mode
- g Societal awareness and responsibility, combining economic growth, environment / sustainability and welfare
- h Climate Change Mitigation in the Maritime Industry
- i Coastal Zone and Coastal Risk Management
- j Storm Surge & Tsunami barriers and Flood protection gates
- k Other



ABSTRACTS

PIANC invites you to contribute to the programme by submitting an abstract to be considered for an oral or poster presentation at the congress.

The theme of the Congress is: ***“Future Ready Waterborne Transport – Unlocking Africa”***

The Congress will include Streams that focus on:

- Overcoming challenges in waterborne transport in Africa
- Dredging (in the framework of port and navigation projects)
- Logistics & Infrastructure
- Ports
- Marinas and small craft harbours
- Environment

Papers and posters should present systems, processes, and practices in use and in development spheres within the general congress theme and sub-themes articulated above.

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Only abstracts adhering to the following requirements will be considered:

Abstracts outline:

- Abstract title
- Author name(s) and institutions
- Abstract body limited to one (1) page

Brand names may not be used in abstract titles and are limited to one reference within the body.

A structured, concise, and factual abstract – 1000 words maximum - is required. The abstract should be written in the provided font (Arial 11pt) and usually comprises 1 to 3 paragraphs of text with no headings, bullets, or other special formatting. No figures should be included. An abstract for the 35th PIANC World Congress outlines a scientific contribution related to the theme and sub-themes of the congress. The abstract should be written in the English language.

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The abstract should contain, as a minimum, the following:

- Context:** What is the focus, context, or scope of the research/work/case study?
- Objective:** State the objective or scientific question that the research aims to answer.
- Method:** Details on the method of research, i.e., field/ laboratory tests, experimental setup, instrumentation, or numerical modelling.
- Results:** Typical or general results from the study/ investigation/case study.
- Conclusions:** A brief statement giving the most important outcome(s) of the work.

An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, references should be avoided. Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself. The abstract should also not contain any brand/product/company names and should be free of any commercial advertising.



ABSTRACT REVIEW

All abstracts will be reviewed by the Technical Committee. Abstracts will be accepted or rejected based on its review score and at the discretion of the Technical Committee.

The closing date for submissions is 20 July 2023. If your abstract is accepted for an oral or poster presentation you will be notified by 01 Sept 2023. A full paper will be required by 06 Nov 2023.

Please visit the congress website at:

www.piancworldcongress2024.co.za for further details and criteria or **to submit an abstract** for the congress.

IMPORTANT DATES

Abstract Submission Opens	– 20 April 2023
Abstracts Submissions Close	– 20 July 2023
Notice of Acceptance	– 01 Sept 2023
Full Paper Submission Deadline	– 06 Nov 2023

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ORGANIZATION

Local Organising Committee

Basil Ngcobo – *PIANC SA Chief Delegate*
Magenthran Ruthenavelu – *Conference Chair*
Keith Mackie – *Vice Chair*
Gerhard Kapp
Marisa Ackhurst
Christiaan De Wet
Craig Johnson

PIANC HQ ADVISORS

Geert Van Cappellen – *Secretary General, PIANC*
Neil Lawson – *Honorary VP, PIANC*

CONTACT

Congress Secretariat

Tel: +27 21 836 8315
Email: info@piancworldcongress2024.co.za
website: www.piancworldcongress2024.co.za

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