

## WHY SHOULD YOUR COMPANY PARTICIPATE?

- Demonstrate your company' s leadership in the field of inland waterways and ports.
- Reach key leaders, academic and Industry researchers.
- Raise your company' s visibility in the field of inland waterways and ports.
- Exhibit and distribute your marketing, business development and promotional materials.
- Convene a corporate workshop.

### The local organization committee (core group)

Yun Li	Vice President, NHRI
Qiaomei Zhang	Secretary General, CWTPCA/ PIANC China
Xiping Dou	Chief Engineer, NHRI
Peng Wu	Vice Chief Engineer, CCCC
Huaqing Zhang	President, TIWTE
Yaan Hu	Department Director, NHRI
Xiaogang Wang	Department Deputy Director, NHRI
Junning Pan	Department Director, NHRI
Gensheng Zhao	NHRI
Tiantao Zhou	NHRI

### Scientific Committee (core group)

Jianyun Zhang	NHRI
Philippe Rigo	Liege University/PIANC
Peng Wu	CCCC
Fabrice Daly	Cerema
Francisco Lefler	PIANC
Claus Kunz	BAW

## ABSTRACT SUBMISSION

The submission of an abstract is required for panel as well as for poster sessions. Each abstract must be written in English and limited to 500 words. It should be based on one of the conference technical topics and should not include graphics/figures.

Abstracts shall be submitted online at

[www.smartrivers2022.com/call-for-abstracts/](http://www.smartrivers2022.com/call-for-abstracts/)

After the review by Scientific Committee, authors whose abstracts are accepted, will be expected to prepare either a short paper (max. 1500 words) or a poster, and a slide presentation.

Accepted authors will be expected to attend the conference, pay the registration fees and make the presentation in person.

## KEY DATES

**1 December 2021**

Abstracts Due

**1 February 2022**

Authors Notification

**1 April 2022**

Papers/Posters Due

**15 May 2022**

Authors Notification

**15 June 2022**

Final Papers/Posters Due

**15 September 2022**

Presentations Due

followed by an interactive exchange with Session Chairs

**18 – 21 October 2022**

Conference

For more information about the conference, visit our website

[www.smartrivers2022.com](http://www.smartrivers2022.com)

or contact

[smartrivers2022@nhri.cn](mailto:smartrivers2022@nhri.cn)

[smartrivers2022@outlook.com](mailto:smartrivers2022@outlook.com)

# PIANC SMART RIVERS 2022

## CONFERENCE (SECOND CALL)



**18-21 OCTOBER, 2022**

**CROWNE PLAZA JIANGNING  
NANJING, CHINA**



Due to the COVID-19, the PIANC Smart Rivers conference has to be postponed from 2021 to 2022. It will be held in Nanjing, China in October, 2022. It is an incomparable opportunity to meet international actors of river transport and the global supply chain of transport.

It is a privileged place of exchange around the best feedback and global trends in the field of sustainable development of inland waterways.

Since 2004, this international event takes place every two years, under the umbrella of the World Association of Waterborne Transport Infrastructure (PIANC). In 2019, the conference took place in Lyon, France.



PIANC Smart Rivers 2022 is organized by Nanjing Hydraulic Research Institute (NHRI). NHRI, set up in 1935, is the earliest and most comprehensive water science research institute in China, currently under China's Ministry of Water Resources, Ministry of Transport and National Energy Administration. NHRI consists of 10 research departments related to water resources, transport and energy. NHRI is a PIANC corporate member, which is the first one in China.

NHRI is a multipurpose national hydraulic research complex, mainly dedicated to basic research, applied research and technological development, and undertaking directional, principal and comprehensive researches for water resources, hydropower and waterway transportation projects as well as researches on soft science and macro decision making.

## TECHNICAL TOPICS



### WATERWAY INFRASTRUCTURE

- 1 Navigation Improvements in Rivers and Canals
- 2 Waterway Planning
- 3 Infrastructure Assessments
- 4 Health Monitoring
- 5 Advances and Innovations in Navigation
- 6 Developments and Future of Waterways
- 7 Recreational Boating and Nautical Tourism



### INLAND NAVIGATION STRUCTURE

- 1 Weirs, Locks and Shiplifts
- 2 Plan, Design and Optimization of IW Structures
- 3 Building Information Modelling (BIM)
- 4 Navigation Hydraulics
- 5 Prototype Monitoring
- 6 Reliability, Maintenance and Resilience



### LOGISTICS

- 1 Intermodal transport (waterway, rail and road)
- 2 Urban Port Development
- 3 Policies and Regulations
- 4 Port Gateways and Cooperation



### SMART SHIPPING

- 1 E-Navigation
- 2 River Information Service (RIS)
- 3 Ship Simulator
- 4 Cybersecurity
- 5 Digitalization of Inland Waterways and Inland Waterway Transport
- 6 Physical Modelling and Numerical Modelling
- 7 Artificial Intelligence (AI) in Shipping
- 8 Big Data and Block Chain



### RIVER SYSTEM MANAGEMENT

- 1 River and Lake Protection
- 2 Sediment Transport
- 3 Water Resources and River Morphology
- 4 Water Quality Improvement
- 5 Smart Dredging Technology and Machinery
- 6 Digital River and Responses to Climate Change
- 7 River Ecological Civilization



### SPECIAL SESSIONS

- 1 Yangtze River Golden Waterways
- 2 Xijiang River Golden Waterways
- 3 Young Professionals

## WELCOME TO NANJING



Situated in the Yangtze River Delta region, Nanjing has a prominent place in Chinese history and culture, having served as the capital of various Chinese dynasties, kingdoms and republican governments dating from the 3rd century to 1949.

Nanjing is the transportation hub in eastern China and the downstream Yangtze River area. Different means of transportation constitute a three-dimensional transport system that includes land, water and air. As in most other Chinese cities, public transportation is the dominant mode of travel of the majority of the citizens. As of December 2020, Nanjing has 5 bridges and two tunnels over the Yangtze River, which are tying districts north of the river with the city center on the south bank.

The Local Organizing Committee welcomes you and hopes to ensure your satisfactions well as technical content, coupled with both technical and cultural tours.