

The conference Smart Rivers 2021, which will be held in Nanjing, China. 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 within the overall supply of transport.

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).

Why should your company participate?

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



Abstract submission

The call for abstracts is an opportunity offered to all waterways experts worldwide to showcase their knowledge, expertise and the latest technical innovations, while also raising them and their company's profile.

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.

Abstracts shall be submitted online at www.smartrivers2021.com/call-for-abstracts/

After a review supervised by the 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 appropriate fees and make the presentation in person.

Key Dates

- Abstracts Due: 30 November, 2020
- Authors Notification: February 1, 2021
- Papers/Posters Due: 1 May, 2021
- Authors Notification (after review): 15 June, 2021
- Final Papers/Posters Due: 15 September, 2021
- Presentations Due: 15 September, 2021, followed by an interactive exchange with Session Chairs
- Conference: 19 - 22 October, 2021

Scientific Committee (core group)

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



PIANC Smart Rivers 2021

Conference / Nanjing / China

19-22 October, 2021

Crowne Plaza Nanjing Jiangning, Nanjing, China
www.smartrivers2021.com



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 October 2014, Nanjing had four 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 Port of Nanjing is the largest inland port in China, with annual cargo tonnage reached 242 million tons in 2017.

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

The Grand Canal is a man-made waterway that runs north and south in eastern China. It is the longest man-made waterway in the world. China's inland waterway transport network is the world's largest, in terms of length and freight tonnages. The total navigable length is over 110 million kilometers in China. A major new initiative has been launched to upgrade infrastructure and the logistic network along the Yangtze River, called the Golden Waterway Yangtze River Economic Belt, which accounts for 40 percent of China's total GDP. The Golden Waterway mainly focuses on upgrading logistic and shipping center in Shanghai (downstream), Wuhan (middle stream), Chongqing (upstream) as well as Nanjing.

Nanjing Hydraulic Research Institute

PIANC Smart Rivers 2021 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 consist of 9 research department related to water resources, transport and energy. NHRI is the 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 conservancy, hydroelectric power and waterway transportation projects as well as researches on soft science and macro decision making.



The local organization committee (core group)

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

For more information about the conference, visit our website www.smartrivers2021.com or contact smartrivers2021@nhri.cn smartrivers2021@outlook.com

Technical Topics

Waterway Infrastructure

- i. Navigation Improvements in Rivers and Canals
- ii. Waterway Planning
- iii. Infrastructure Assessments
- iv. Health Monitoring
- v. Advances and Innovations in Navigation
- vi. Developments and Future of Waterways
- vii. Recreational Boating and Nautical Tourism

Inland Navigation Structure

- i. Weirs, Locks and Shiplifts
- ii. Plan, Design and Optimization of IW Structures
- iii. Building Information Modelling (BIM)
- iv. Navigation Hydraulics
- v. Prototype Monitoring
- vi. Reliability, Maintenance and Resilience

Smart Shipping

- i. E-Navigation
- ii. River Information Service (RIS)
- iii. Ship Simulator
- iv. Cybersecurity
- v. Digitalization of Inland waterways and inland waterway transport
- vi. Physical Modelling and Numerical Modelling
- vii. Artificial Intelligence (AI) in Shipping
- viii. Big Data and Block Chain

River System Management

- i. Sediment Transport
- ii. Water Resources and River Morphology
- iii. Water Quality Improvements
- iv. Smart Dredging Technology and Machinery
- v. Digital River and Responses to Climate Change
- vi. River Ecological Civilization

Logistics

- i. Intermodal transport (waterway, rail and road)
- ii. Urban Port Developments
- iii. Policies and Regulations
- iv. Port Gateways and Cooperation

Special Sessions

- i. Yangtze River Golden Waterways
- ii. Xijiang River Golden Waterways
- iii. Young Professionals