

# International Conference on Global Water Security and Sustainable Development



1st IAHR International Conference  
on Global Water Security



4th International Forum  
on Water Security and Sustainability

# WELCOME

October 29-November1, 2023  
Changzhou, Jiangsu



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# ABOUT THE FORUM



# ABOUT THE FORUM

## Basic Information

The 1st IAHR International Conference on Global Water Security & 4th International Forum on Water Security and Sustainability, sponsored by International Association for Hydro-Environment Engineering and Research, Chinese Hydraulic Engineering Society, Hohai University and Nanjing Hydraulic Research Institute, and organized by Yangtze Institute for Conservation and Development, will be held in Jintan Campus of Hohai University, from October 29 to November 1, 2023. The successful development of global water security faces significant challenges. These challenges require close cooperation between scientists, engineers, water resources managers and policy makers. In this regard, this conference will provide a forum bringing together participants from academia, consulting firms, and local, provincial, and national government agencies, and offering them an opportunity to interact in an informal and relaxed environment. This conference will also provide students with an opportunity to discuss their interests with renowned and well-established researchers and professionals in this field.

## Topics

- Integrated River Basin Management
- Climate Change and Risks Management
- Water Engineering and Smart Water Conservancy
- Eco-environmental Protection
- Conservation and High-quality Development of the Yangtze River and Yellow River Basins

## Sponsors

- International Association for Hydro-Environment Engineering and Research
- Chinese Hydraulic Engineering Society
- Hohai University
- Nanjing Hydraulic Research Institute

## Hosts

- Yangtze Institute for Conservation and Development
- The National Key Laboratory of Water Disaster Prevention



- JRC Water Science and Water Engineering
- MWR Research Center for Climate Change
- National Engineering Research Center for Water Resources Efficient Utilization and Engineering Safety
- IAHR-Hohai Co-Committee on Higher Education and E-learning

## Partners

- UNESCO-IHP
- International Association of Hydrological Sciences
- Key Laboratory of Hydrologic-Cycle and Hydrodynamic-System of Ministry of Water Resources
- Key Lab of Flood and Drought Hazard Control of MWR
- Key Lab of Reservoir and Dam Safety of MWR
- Key Laboratory of Flood Disaster Risk Warning, Prevention and Mitigation, Ministry of Emergency Management
- International Joint Lab of Global Changes and Water Circle, Ministry of Education
- Cooperative Innovation Center for Water Safety and Hydro Science



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Yan Xiang	Feng Sun	Feng Li
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Peng Shi

Pinglei Liu

Jie Yang

Ke Zhang

Jie Chen

Guangqiu Jin

Xue Zhou

Shanshui Yuan

Teng Xu

Yifan Xie



# PROGRAMME OVERVIEW





# PROGRAMME OVERVIEW

**29 October**

**30 October**

**31 October**

**1 November**

<div>11:00-22:00 Marriott Hotel</div> <div>Registration</div>	<div>08:30-09:20 Theater</div> <div>Opening</div>	<div>08:30-12:00 Administrative Building</div> <div>Parallel sessions</div>	<div>09:00-12:00</div> <div>Technical Tours</div>
	<div>09:20-12:20 Theater</div> <div>Plenary sessions</div>		
	<div>12:20-14:00 No.3 Cafeteria</div> <div>Lunch</div>	<div>12:00-14:00 No.3 Cafeteria</div> <div>Lunch</div>	<div>12:00-14:00 Marriott Hotel</div> <div>Lunch</div>
	<div>14:00-17:20 Theater</div> <div>Plenary sessions</div>	<div>14:00-17:30 Administrative Building</div> <div>Parallel sessions</div>	
	<div>17:30-20:00 Marriott Hotel</div> <div>Dinner</div>	<div>17:30-20:00 Marriott Hotel</div> <div>Dinner</div>	



# PLENARY SESSIONS



# PLENARY SESSIONS

## 30 OCTOBER

### 08:30 Opening

#### Moderator

- **Jianyun Zhang**, Academician of CAE, Foreign Fellow of RAE  
Dean of Yangtze Institute for Conversation and Development, Honorary Dean of Nanjing Hydraulic Research Institute, and Chairman of the Forum Organizing Committee

#### Opening speech

- **Guishan Yang**, Professor  
President of Hohai University
- **Lei Sheng**, Mayor  
Changzhou People's Government
- **Roger Falconer**, Fellow of RAE, Foreign Academician of CAE  
Professor of Hohai University, Past President of IAHR, and Chairman of the Forum Academic Committee
- **Zhanjun Gao**, Director  
The Third Bureau of the Chinese Academy of Engineering
- **Xuewen Zhou**, Professor  
Chairman of the Chinese Hydraulic Engineering Society, former Vice Minister of the Ministry of Emergency Management, former Vice Minister of Ministry of Water Resources

#### Photo

Please remain seated and keep still for group photo

#### Moderator

- **Xinqiang Niu**, Academician of CAE  
Chief Scientist of CISPDR Corporation
- **Roger Falconer**, Fellow of RAE, Foreign Academician of CAE  
Professor of Hohai University, Past President of IAHR, and Chairman of the Forum Academic Committee

- 09:20      **Strengthen Basin Governance and Management to Promote High-Quality Development of Water Resources in the New Stage**
- **Zhiyu Zhong**, Professor of Engineering  
Chief Engineer of the Ministry of Water Resources
- 09:40      **South-to-North Water Transfer Project and National Water Security**
- **Annan Wang**, Professor of Engineering  
Director and General Manager of China South-to-North Water Transfer Group Co.
- 10:00      **Smart Water Solutions for Water Security: Challenges & Opportunities**
- **Philippe Gourbesville**, Professor  
President of IAHR, Vice-Chairman of the Asian Water Council
- 10:20      **Intensive glacier melt and imbalance of Asian Water Tower**
- **Tandong Yao**, Academician of the CAS  
Researcher of the Qinghai-Tibet Plateau Research Institute of the CAS, Honorary Director, and  
Leader of the Second Qinghai-Tibet Scientific Expedition Team

10:40      **Tea break**

### **Moderator**

- **Renzhong Guo**, Academician of CAE  
Shenzhen University
- **Mohamed GHIDAOUI**, Professor  
Vice President of IAHR
- 11:00      **Urban Flood Control Challenges in China under Extreme Climatic Conditions**
- **Xinqiang Niu**, Academician of CAE  
Chief Scientist of CISPDR Corporation
- 11:20      **Water, Sustainable Development, Nature and Climate Change**
- **Mark Fletcher**, Fellow of RAE  
Arup Group Limited
- 11:40      **Global Water Security in the Digital Age**
- **Dragan Savić**, Fellow of RAE, Fellow of European Academy of Sciences  
CEO of KWR Water in the Netherlands and Professor of Hydroinformatics at the University of Exeter, UK

12:00

## Closing in on Answers to Sustainability Issues

○ **Harry Seah**, Dr.

Deputy Chief Executive Officer of the Public Utilities Board of Singapore

**12:20**

## Lunch

### Moderator

○ **Minjiang Deng**, Academician of CAE

Chairman of the Science and Technology Association of the Xinjiang Uygur Autonomous Region

○ **Dragan Savić**, Fellow of RAE, Fellow of European Academy of Sciences

CEO of KWR Water in the Netherlands and Professor of Hydroinformatics at the University of Exeter, UK

14:00

## Key technologies for the extension and capacity enhancement of high-grade inland waterways

○ **Yaan Hu**, Academician of CAE

Chief Engineer of Nanjing Hydraulic Research Institute

14:20

## Quantifying Water Security – State-of-the-Art and Challenges

○ **Eelco van Beek**, Professor

Deltares Research Institute

14:40

## Addressing Challenges in Water Security and Sustainability: Chinese Water Culture and Adaptation

○ **Zhongbo Yu**, Professor

Chair of UNESCO-IHP, Director of the National Key Laboratory for Water Disaster Prevention of Hohai University

15:00

## Sponge Cities 2.0: Towards the Next Level of Climate Resilience of Urbanizing Catchments and Deltas

○ **Chris Zevenbergen**, Professor

Professor of Hydraulic Engineering at IHE Delft, and Professor at the Faculty of Architecture and the Built Environment, TU Delft, Netherlands

15:20

## Tea break

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## Moderator

- **Yaan Hu**, Academician of CAE  
Chief Engineer of Nanjing Hydraulic Research Institute
- **Mark Fletcher**, Fellow of RAE  
Arup Group Limited

15:40      **Tidal Energy from Water: West Somerset Lagoon Project**

- **Roger Falconer**, Fellow of RAE, Foreign Academician of CAE  
Hohai University, Cardiff University

16:00      **Wave-Based Imaging System for Sustainable Urban Water Infrastructure**

- **Mohamed GHIDAOUI**, Professor  
Vice President of IAHR

16:20      **Transformative Change in Water Resource Management in Bangladesh**

- **Malik Fida A Khan**, Professor  
Executive Director of the Environmental and Geographic Information Services Center in Bangladesh

16:40      **Optimization of the Hydrodynamic System and Water Security Assurance in the Huai River Basin**

- **Hongwu Tang**, Academician of CAE  
Director of Key Laboratory of Hydrologic-Cycle and Hydrodynamic-System of Ministry of Water Resources

17:00      **Ecohydrology for Water Security within the UNESCO-IHP IX (2022-2029)**

- **Rahmah Elfithri**, Dr.  
Director of the Capacity Development and Family Water Coordination Department for Water Sciences and Intergovernmental Hydrological Program at UNESCO Headquarters in Paris, France

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**17:30      Dinner**

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# PARALLEL SESSIONS



# PARALLEL SESSIONS

## 31 OCTOBER

### 08:30 Integrated River Basin Management

#### Organisers

- **Minjiang Deng**, Academician of CAE  
Chairman of the Science and Technology Association of the Xinjiang Uygur Autonomous Region
  - **Jianhua Wang**, Professor of Engineering  
Vice Director of China Institute of Water Resources and Hydropower Research
  - **Qiongfang Li**, Professor  
Vice Dean of Yangtze Institute for Conservation and Development
  - **Yintang Wang**, Professor of Engineering  
Deputy Chief Engineer of Nanjing Hydraulic Research Institute
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#### Moderator

- **Chunmiao Zheng**, Professor  
Vice President of Ningbo Eastern Institute of Technology, Professor of Southern University of Science and Technology

### 08:30 Invited Talk: Integrated Water Resources Management of River Basins

- **Hao Wang**, Academician of CAE  
China Institute of Water Resources and Hydropower Research

### 08:50 Invited Talk: Experiences and Challenges of Water Resources Management in China

- **Derui Yang**, Former Department Director  
Department of Water Resources Management, Ministry of Water Resources

### 09:10 Change of Water Cycle & Water-Sediment Coupled Processes in the Yellow River Basin

- **Dawen Yang**, Professor  
Tsinghua University

- 09:25      **Theory and Methods for Systematic Governance of the Yellow River Basin**
- **Enhui Jiang**, Professor  
Vice President of Yellow River Institute of Hydraulic Research
- 09:40      **Climate Change and Water Security**
- **Junguo Liu**, Professor  
Vice President of North China University of Water Resources and Electric Power
- 09:55      **Phosphorus Management through Strategic Wetland Restoration: A Case Study in the Lake Erie Basin**
- **Emily Ury**, Research Fellow  
Environmental Defense Fund

10:10      **Tea break**

#### **Moderator**

- **Junguo Liu**, Professor  
Vice President of North China University of Water Resources and Electric Power
- 10:30      **Invited Talk: Rapid Simulation of Flood Inundation in High Accuracy and Resolution**
- **Quanjun Wang**, Professor  
Melbourne University
- 10:50      **Development of A National-Scale Groundwater Model for China to Facilitate Sustainable Groundwater Management**
- **Chunmiao Zheng**, Professor  
Vice President of Ningbo Eastern Institute of Technology, Professor of Southern University of Science and Technology
- 11:05      **Future Streamflow and Hydropower Potential Variation of the Upper Mekong Under Climate Change**
- **Xiaohong Chen**, Professor  
Sun Yat-sen University

11:20      **A Novel Flood Peak Forecasting Model**

○ **Lu Chen**, Professor  
Huazhong University of Science and Technology

11:35      **Key Technology for Simulation of Streamflow Process and Prediction and Analysis of Waterlogging in Depressions in Karst Basins**

○ **Lihua Chen**, Professor  
Guangxi University

11:50      **Forecasting of Surface Currents at Coastal Areas Based on High Frequency Radar Observations**

○ **Michael Hartnett**, Professor  
University of Galway, Ireland

**12:05      Lunch**

**Moderator**

○ **Quanjun Wang**, Professor  
Melbourne University

14:00      **Invited Talk: Research and Practice of Ecological Water Conservancy and Large-scale Ecology Scheduling**

○ **Mingjiang Deng**, Academician of CAE  
Chairman of the Science and Technology Association of the Xinjiang Uygur Autonomous Region

14:20      **Complementary Operation of Hydro-Wind-Photovoltaic Systems in A River Basin**

○ **Pan Liu**, Professor  
Wuhan University

14:35      **Groundwater Storage Changes in the North China Plain**

○ **Yun Pan**, Professor  
Capital Normal University

14:50      **Research on Key Technologies and Applications of Digital Twin Basins**

○ **Shanghong Zhang**, Professor  
North China Electric Power University

15:05      **Optimizing Microwave-based Soil Moisture Data by Considering Geographical and Environmental Factors**

○ **Qing Zhu**, Research Fellow  
Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences

15:20      **Virtual Water Considerations on Water Security Impacts**

○ **Farhad Yazdandoost**, Dr.  
K N Toosi University of Technology

15:35      **Tea break**

**Moderator**

○ **Qing Zhu**, Research Fellow  
Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences

15:55      **Invited Talk: Ecological Compensation for Integrated Watershed Management**

○ **Guishan Yang**, Professor  
President of Hohai University

16:15      **Reservoirs Joint Operation in Tarim River Basin Oriented to Water System Connection**

○ **Jianxia Chang**, Professor  
Xi'an University of Technology

16:30      **Dual Security Criteria of Reliability and Robustness for Regular and Backup Water Resources Planning**

○ **CHIA-WEN WU**, Dr.  
National Cheng-Kung University

16:45      **Transboundary Rivers, International Water Law and Water Security in the 21st Century: Time for A New Solution from A Chinese Perspective - “A Water Community with A Shared Future.”**

○ **Thomas Stephen Ramsey**, Dr.  
China Three Gorges University



17:00      **Groundwater Management in the Mediterranean Region**

○ **Seifeddine Jomaa**, Research Fellow

Helmholtz Centre for Environmental Research —UFZ

17:15      **Method for Flood Risk Prediction in A Tropical Basin**

○ **Adriana Márquez**, Dr.

University of Carabobo

**17:30      Dinner**

## 08:30 Climate Change and Risks Management

### Organisers

- **Jun Xia**, Academician of CAS  
Wuhan University
  - **Zhongbo Yu**, Professor  
Chairman of UNESCO-IHP, Director of National Key Laboratory of Water Disaster Prevention of Hohai University
  - **Guoqing Wang**, Professor of Engineering  
Climate Change Response Research Center of the Ministry of Water Resources
  - **Shanshui Yuan**, Research Fellow  
Yangtze Institute for Conservation and Development
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### Moderator

- **Zhongbo Yu**, Professor  
Chairman of UNESCO-IHP, Director of National Key Laboratory of Water Disaster Prevention of Hohai University

### 08:30 Invited Talk: Climate Change and Extreme Meteorological and Hydrological Events

- **Panmao Zhai**, Research Fellow  
Vice President of Chinese Academy of Meteorological Sciences

### 08:50 Invited Talk: Climate Change Impacts and Adaptation Strategies for Water Security

- **Jun Xia**, Academician of CAS  
Wuhan University

### 09:10 Anthropogenic Transition to Flash Droughts and Its Implication on Heatwaves

- **Xing Yuan**, Professor  
Nanjing University of Information Science and Technology

### 09:25 Effects of Climate Change and Dam Construction on Salinity and Water Resources in Lower Bang Pakong Basin, Thailand

- **Wongsa Sanit**, Professor  
King Mongkut's University of Technology Thonburi

09:40 **Hydrologic Processes Altered by Climate Change Impacts in the Tibetan Plateau**

○ **Yanqing Lian**, Research Fellow

Yangtze Institute for Conservation and Development

09:55 **Estimation of Global Reservoir Evaporation Losses**

○ **Xiaomang Liu**, Research Fellow

Dean of Institute of Geographic Sciences and Natural Resources Research, CAS

10:10 **Tea break**

### **Moderator**

○ **Guoqing Wang**, Professor of Engineering

Climate Change Response Research Center of the Ministry of Water Resources

10:30 **Invited Talk: Mechanisms of Ecohydrological Feedbacks in Cold and Arid Watersheds under Changing Environments**

○ **Tingxi Liu**, Professor

Inner Mongolia Agricultural University

10:50 **Impacts of Lake Expansion on Precipitation on the Tibetan Plateau under Climate Change**

○ **Lihua Xiong**, Professor

Wuhan University

11:05 **Exploring Historical and Future Changes in Water Storage and Runoff in China's Southwest River basins: Insights from Remote Sensing and Hydrological Modeling**

○ **Di Long**, Professor

Tsinghua University

11:20 **Key Technologies for Synergistic Regulation and Enhancement of Three-dimensional Water Networks in Plain Areas**

○ **Tianling Qin**, Professor of Engineering

China Institute of Water Resources and Hydropower Research

11:35 **Statistical Downscaling of Precipitation and Air Temperature in Coastal Areas of China under CMIP6 Models**

○ **Kinde Negessa Disasa**, Dr.

Ambo University

**11:50**

**Lunch break**

**Moderator**

○ **Shanshui Yuan**, Research Fellow  
Yangtze Institute for Conservation and Development

**14:00**      **Effects of Urbanization on Changes in Precipitation Extremes in Guangdong-Hong Kong-Macao Greater Bay Area, China**

○ **Fang Yang**, Professor of Engineering  
Vice Director of The Pearl River Hydraulic Research Institute

**14:20**      **Evolutionary Characteristics and Future Prediction of Compound Extreme Meteorological and Hydrological Events Under Climate Change**

○ **Jie Chen**, Professor  
State Key Laboratory of Water Resources Engineering and Management

**14:35**      **Hysteresis and Watershed Memory Theory of Alpine Rivers in Asia**

○ **Yueping Xu**, Professor  
Zhejiang University

**14:50**      **Indirect Effect of Climate Change on Global Water Availability through Adjustments in Terrestrial Vegetation**

○ **Weiguang Wang**, Professor  
Hohai University

**15:05**      **Transboundary Water Benefit-Sharing and Security under Environmental Change**

○ **Yanli Liu**, Professor of Engineering  
Nanjing Hydraulic Research Institute

**15:20**      **Soilless Farming: A New Era of Food Production Systems under Climate Change**

○ **Imran Ali Lakhari**, Dr.  
Pakistan Agricultural Research Council

**15:35**

**Tea break**



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**Moderator**

○ Yueping Xu, Professor  
Zhejiang University

15:55      **Invited Talk: Changes in the Underlying Surface and Its Ecohydrological Response in the Source Regions of the Yellow River**

○ Guoqing Wang, Professor of Engineering  
Climate Change Response Research Center of the Ministry of Water Resources

16:15      **Multi-Source Precipitation Fusion Based on Transfer Learning in the Qinghai-Tibet Plateau**

○ Qinli Yang, Professor  
University of Electronic Science and Technology of China

16:30      **Drought Propagation in A Changing Environment**

○ Shanshui Yuan, Research Fellow  
Yangtze Institute for Conservation and Development

16:45      **Projection of Future Extreme Precipitation in Mainland Southeast Asia**

○ Sophal Try, Dr.  
Nanyang Technological University

17:00      **Climate Change Impact on Wheat Yields in the Tashkent Region of the Republic of Uzbekistan under Different Climate Scenarios**

○ Bekhzod Burkhanov, Dr.  
Hohai University

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**17:30      Dinner**

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## 08:30 Water Engineering and Smart Water Conservancy

### Organisers

- **Huajun Li**, Academician of CAE  
Ocean University of China
  - **Zongliang Zhang**, Academician of CAE  
Power Construction Corporation of China
  - **Yang Xiao**, Professor  
Vice President of Suzhou University of Science and Technology
  - **Jisheng Zhang**, Professor  
Hohai University
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### Moderator

- **Feifei Zheng**, Professor  
Zhejiang University

### 08:30 Invited Talk: Safe, Economic and Sustainable Development and Utilization of Oceans

- **Huajun Li**, Academician of CAE  
Ocean University of China

### 08:50 Earthquake/landslide Generated Tsunami Waves and Hazard

- **Xiaodong Liu**, Professor  
Stantec Consulting Ltd

### 09:05 R&D and Demonstration of Key Techniques for Digital Twin Water Conservancy Projects

- **Shiming Yao**, Professor of Engineering  
Vice Dean of Changjiang River Scientific Research Institute.

### 09:20 Comprehensively Enhance Water Security Capacity of Huaihe Basin, Systematically Plan Modern Flood Mitigation System for Huaihe River

- **Xuejun Zhang**, Professor of Engineering  
Deputy General Manager of China Water Huaihe Institute

### 09:35 A Decision Support Platform for Ensuring Water Quality Safety in Long-Distance Water Diversion Project

- **Mengzhen Xu**, Associate Professor  
Tsinghua University

09:50      **Key Techniques and Application of AI-Based Risk Prevention and Control for Water Environment Security in Watersheds**

- **Zongxing Wang**, Associate Professor of engineering  
Zhongnan Engineering Corporation Ltd., PowerChina Group

10:05      **Tea break**

**Moderator**

- **Jinbao Sheng**, Professor of Engineering  
Nanjing Hydraulic Research Institute

10:25      **Invited Talk: Key Techniques of Digital Twin Watersheds and Their Realization**

- **Yuelong Zhu**, Professor  
Hohai University

10:45      **R&D and Demonstration Application of Underwater Inspection Robot System for Large-Diameter and Long Diversion Tunnels**

- **Haoran Wang**, Professor of Engineering  
Vice Director of Sichuan Energy Internet Research Institute, Tsinghua University

11:00      **Research and Practice of Key Techniques in Digital Twin for Reservoirs**

- **Wenwu Yan**, Professor of Engineering  
Chairman of Ningbo Institute of Water Resources and Hydropower Planning and Design

11:15      **Advances in Rapid Simulation and Forecasting Methods for Flood Disasters**

- **Jingming Hou**, Professor  
Xi'an University of Technology

11:30      **Real-Time Modelling and Accurate Operation Technology Development for Urban Complex Water Supply Systems**

- **Feifei Zheng**, Professor  
Zhejiang University

11:45      **Novel and Efficient Dimensionality Reduction Optimization Techniques for Large-Scale Reservoirs System Operation**

- **Zhongkai Feng**, Professor  
Hohai University

12:00

## Lunch break

### Moderator

- **Jingming Hou**, Professor  
Xi'an University of Technology

14:00

### Invited Talk: Challenges to Dam Safety in the New Situation

- **Jinbao Sheng**, Professor of Engineering  
Nanjing Hydraulic Research Institute

14:20

### Performance Analysis of Perforated Caisson Structures under Water Wave Action

- **Yong Liu**, Professor  
Vice President of Ocean University of China

14:35

### Planning, Design and Research Innovation of Huaihe River Seaward Waterway Phase II Project

- **Dong Chen**, Associate Professor of engineering  
Jiangsu Surveying and Design Institute of Water Resources Co., LTD.

14:50

### Soil Erosion Prediction Modeling in the Yangtze River Basin Based on Runoff Erosion Energy

- **Kunxia Yu**, Professor  
Xi'an University of Technology

15:05

### Keeping up with Uncertainty: Water Resources Planning in Times of Climate Change

- **Edoardo Borgomeo**, Associate Professor  
University of Cambridge

15:20

### Recent Advances and Future Challenges in Pluvial Urban Flood Modelling

- **Luis Cea Gómez**, Professor  
Universidade da Coruña, Spain

15:35

## Tea break



## Moderator

- Jisheng Zhang, Professor  
Hohai University

15:55      **Invited Talk: Digital Twin Watersheds and Key Techniques**

- Yang Cai, Professor of Engineering  
Director of Information Center, Ministry of Water Resources

16:15      **Decision-making for Urban Flood Resilience**

- Nigel Wright, Professor  
University of Birmingham

16:30      **Demonstration of Technology Integration and Application of Water Management for Rivers and Lakes in Shanghai Countryside**

- Xianghua Zeng, Associate Professor of Engineering  
Engineering Research Center of Shanghai Hongbo Group

16:45      **Innovation and Practice of Large-scale Urban Drainage Deep Tunnel Project**

- Yang Zhang, Professor of Engineering  
Vice Dean of Powerchina Huadong Engineering Corporation Limited

17:00      **Discharge Coefficients Spillways Labyrinth According Transitional Hydrodynamic Upstream Walls Forms at The Approach Canal**

- Gustavo Delgado, Dr.  
Universidad Central de Venezuela

17:15      **High-resolution rainfall-runoff simulations within Berlin, Germany**

- Reinhard Hinkelmann, Professor  
Technische Universität Berlin

**17:30      Dinner**

## 08:30      **Eco-environmental Protection**

### **Organisers**

- **Chao Wang**, Academician of CAE  
Hohai University
  - **Zuxin Xu**, Academician of CAE  
Tongji University
  - **Qiuwen Chen**, Research Fellow  
Nanjing Hydraulic Research Institute
  - **Zulin Hua**, Professor  
Hohai University
- 

### **Moderator**

- **Pei Xin**, Professor  
Hohai University

08:30      **Invited Talk: Protection of Ecological Environment of the Yellow River:  
Exploring the Yellow River Source Area**

- **Chao Wang**, Academician of CAE  
Hohai University

08:50      **Insufficient Attention to the Conversion Efficiency of Source Material in High  
Dams and Large Reservoirs**

- **Defu Liu**, Professor  
President of Hubei University of Technology

09:05      **Three Gorges Urban Water Steward Model and Technological Innovation**

- **Dianchang Wang**, Associate Professor  
Chairman of YEEC

09:20      **Ecohydraulics Reservoir Management under Climate Change**

- **Daniele Tonina**, Professor  
University of Idaho

09:35      **Emerging Contaminants Drive Re-Assembly of Bacterial and Algal  
Communities**

- **Weiling Sun**, Professor  
Peking University

09:50      **Sustainable Assessment of the Water Ecological Integrity in the Yangtze River Basin**

- **Yuchun Wang**, Professor of Engineering  
China Institute of Water Resources and Hydropower Research

10:05      **Tea break**

**Moderator**

- **Defu Liu**, Professor  
President of Hubei University of Technology

10:25      **Invited talk: Development Strategies and Technological Advances for Green and Future Low-Carbon Urban Water Systems**

- **Jun Ma**, Academician of CAE  
Harbin Institute of Technology

10:45      **Research on Key Safety Technologies and Engineering Applications for High Dam Flood Discharge Projects**

- **Jianmin Zhang**, Professor  
Sichuan University

11:00      **On the Urgent Need for More Efficient Water Resource Recovery to Reduce GHG Emissions and Improve Environmental Water Quality**

- **Lloyd Richard Townley**, Senior scientist  
Nanjing Tech University/Nanjing Smart Technology Development Co. Ltd

11:15      **Evolution and Habitat Simulation of Vegetation Community in the Salt Marsh Wetland, Yellow River Delta**

- **Yujun Yi**, Professor  
Beijing Normal University

11:30      **Effects of Freeze-Thaw Processes on Soil Water-Heat-Salt Transport and Distribution**

- **Pei Xin**, Professor  
Hohai University

11:45

**A Novel Methodology to Identify and Quantify Deepwater Renewal Processes During Winter Cooling in A Large, Deep Lake (Lake Geneva)**

- **D. Andrew Barry**, Fellow of the Royal Society of Edinburgh, UK  
Ecole Polytechnique Fédérale de Lausanne

**12:00**

**Lunch**

**Moderator**

- **Baozhu Pan**, Professor  
Xi'an University of Technology

14:00

**Invited Talk: Nitrous Oxide Emissions from Dam Reservoirs: Novel Approaches to Estimate Global Fluxes**

- **Taylor Maavara**, NERC Independent Research Fellow  
University of Leeds

14:20

**Research on Control of Supersaturation of Dissolved Gases in High Dam Spillwater Based on Tolerance of Indigenous Fish Species**

- **Kefeng Li**, Professor  
Sichuan University

14:35

**Temporal and Spatial Evolution of China's Reservoir Water Environment and Research on Driving Mechanisms**

- **Shouliang Huo**, Research Fellow  
Chinese Research Academy of Environmental Sciences

14:50

**Enhanced Hydro-Epidemiological Modelling Using A Novel Bacteria Decay Approach**

- **Reza Ahmadian**, Professor  
Cardiff University

15:05

**Two Lake Inflow Effects on Sedimentation and Flood Control in the Middle and Lower Yangtze River**

- **Junqiang Xia**, Professor  
Wuhan University

15:20      **Application of Flexible Textile Sensing and In-Situ Spectroscopy Techniques in Environmental Monitoring Research**

○ **Wei Zhang**, Research Fellow

Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences

15:35      **Tea break**

**Moderator**

○ **Kefeng Li**, Professor

Sichuan University

15:55      **Invited Talk: Integration of Ecohydrological NBS and Hydroengineering for Enhancement Sustainability of Catchments for Local, Regional and Global Water Security**

○ **Maciej Zalewski**, Academician of PAS

European Regional Centre for Ecohydrology of the Polish Academy of Sciences under the  
Auspices of Unesco

16:15      **Community Structure and Function of River Phytoplankton in the Context of Urbanization**

○ **Jun Yang**, Research Fellow

Institute of Urban Environment, Chinese Academy of Sciences

16:30      **Carbon Emission at the Water-Air Interface of Inland Water Bodies and its Response to Human Activities**

○ **Siyue Li**, Professor

Wuhan Institute of Technology

16:45      **Ensemble Modeling of Global Lake Evaporation under Climate Change**

○ **Lestyn Woolway**, NERC Independent Research Fellow

Bangor University

17:00      **Hydroecological Evolution and Conservation Strategies in the Yellow River Basin under Changing Environmental Conditions**

○ **Baozhu Pan**, Professor

Xi'an University of Technology

17:15

**Personal Factors Affect the Hump-Shaped Relationship between Public Preference and Wildness of Urban Lake Areas in France and China**

○ Chaozhong Tan, Dr.

University of Tours

**17:30**

**Dinner**

# 08:30 Conservation and High-quality Development of the Yangtze River and Yellow River Basins

## Organisers

- **Chunhong Hu**, Academician of CAE  
China Institute of Water Resources and Hydropower Research
  - **Bing Zhang**, Professor  
Dean of Institute for Ecological Civilization Construction and Watershed Protection
  - **Yan Huang**, Professor of Engineering  
Deputy Chief Engineer of Changjiang Water Resources Commission
  - **Xinhua Zhu**, Professor  
Hohai University
- 

## Moderator

- **Bing Zhang**, Professor  
Dean of Institute for Ecological Civilization Construction and Watershed Protection

## 08:30 Invited Talk: Institutional Innovation in Watershed Management through the Dual Watershed Approach

- **Yong Jiao**, Professor of Engineering  
Former Vice Minister of Ministry of Water Resources

## 08:50 Building a Green Shipping System in the Jiangsu Section of the Yangtze River Adhere to the Guiding Principle of Xijin Ping Ecological Civilization Thought

- **Xiufeng Wang**, Deputy director  
Jiangsu Maritime Bureau

## 09:05 Exploration of the Rule of Law in Yangtze River Ecological Protection and High-Quality Development

- **Jian Ke**, Professor  
Wuhan University

## 09:20 The Construction Model and Path of National Sustainable Development Agenda Innovation Demonstration Zone

- **Bingsheng Liu**, Professor  
Vice President of Hebei University of Technology Division



09:35      **Assessment of High-Quality Development in the Yangtze River Economic Belt**

○ **Xuejun Duan**, Professor

Deputy Director of Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences

09:50      **Preliminary Exploration of Yellow River Aquatic Ecological Environmental Issues and Technical Solutions**

○ **Yonghui Song**, Fellow of European Academy of Sciences and Arts

Deputy Dean of Chinese Research Academy of Environmental Sciences

10:05      **Tea break**

**Moderator**

○ **Na Li**, Associate Professor

Hohai University

10:25      **Invited Talk: Evolution and Management for the Protection of the Yangtze River Channel**

○ **Chunhong Hu**, Academician of CAE

China Institute of Water Resources and Hydropower Research

10:45      **Extreme Disaster Risk and High-Quality Development in the Yangtze River Basin**

○ **Ruishan Chen**, Professor

Shanghai Jiao Tong University

11:00      **Digital Empowerment for High-Quality Ecological and Economic Development in the Yangtze River Basin**

○ **Chuanqing Wu**, Professor

Wuhan University

11:15      **Research on Ecological Civilization Construction and High-Quality Development in Typical and Key Zones of the Yangtze River Basin**

○ **Hongbing Deng**, Professor

China University of Geosciences (Wuhan)

11:30      **Variational Principles in River System Evolution and the Significance of Geomorphological Diversity**

○ **Heqing Huang**, Research fellow  
Institute of Geographic Sciences and Natural Resources Research, CAS

11:45      **Comprehensive Assessment, Barrier Factors, and Enhancement Strategies for Ecological Security in the Yangtze River Basin**

○ **Qinlin Gong**, Professor  
Sichuan University

**12:00      Lunch**

**Moderator**

○ **Yongchun Huang**, Professor  
Hohai University

14:00      **Invited Talk: "River and Lake Strategy" with A Focus on Legal Governance in the Context of the Yellow River**

○ **Wenxue Li**, Professor of Engineering  
Chief Engineer of the Yellow River Water Conservancy Commission

14:20      **Research on Key Issues in Basin Legislation**

○ **Yong Zhai**, Professor  
Ningbo University, Environment and Resources Protection Committee of the National People's Congress

14:35      **Create A Peaceful Yangtze River Where People and Nature Coexist Harmoniously to Better Coordinate Development and Security**

○ **Changchun Cheng**, Professor  
Yangtze Industrial Economic Institute

14:50      **Rigid Constraints of Water Resources in the Yangtze River Economic Belt: Comprehensive Assessment, Influencing Factors, and Policy Recommendations**

○ **Qinghua Huang**, Professor  
Southwest University

- 15:05      **High-Quality Development of the Yangtze River Economic Belt**
- **Xu Liu**, Division chief  
Jiangsu Development and Reform Commission, Yangtze River Economic Belt Development Division
- 15:20      **Land Policy Innovation and Green Transformation of the Development Mode in the Yangtze River Economic Belt**
- **Shuyi Feng**, Professor  
Nanjing Agricultural University

15:35      **Tea break**

**Moderator**

- **Zhonggen Sun**, Professor  
Hohai University
- 15:55      **Invited talk: Yangtze River Protection Law and High-Quality Development in the Yangtze River Basin**
- **Yan Huang**, Professor of Engineering  
Deputy Chief Engineer of Changjiang Water Resources Commission
- 16:15      **Reflections on the High-Quality and Green Development Strategy in the Three Gorges Reservoir Area in the New Three Gorges Era**
- **Chuanhao Wen**, Professor  
Yunnan University
- 16:30      **Development and Protection of the Northern Wing of the Yangtze River Estuary in Jiangsu: Innovative Development and Future Vision**
- **Zhenke Zhang**, Professor  
Nanjing University
- 16:45      **Hydrodynamic Research of the Taihu and River Network Region Based on Water Quantity, Quality and Fraction Model**
- **Juan Wu**, Associate Professor of engineering  
Taihu Basin Authority

17:00      **Assessment of Green Development and Spatial Coordinated Control in the Yangtze River Economic Belt**

○ **Wei Sun**, Research fellow

Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences

17:15      **Accumulated Ecological and Hydrological Effects of the Largest Cascade Reservoirs over the Yangtze River Basin**

○ **Meixiu Yu**, Associate Professor

Hohai University

**17:30      Dinner**

08:30

## Theory and Practice of Major Infrastructure Construction

### Organisers

- **Xinqiang Niu**, Academician of CAE  
Chief Scientist of CISPDR Corporation
  - **Jinhai Zheng**, Professor  
Vice President of Hohai University
  - **Wenlong Chen**, Senior Engineer  
Director, The Pearl River Hydraulic Research Institute of Pearl River Water Resources Commission
  - **Yuan Wang**, Professor  
Hohai University
- 

### Moderator

- **Jinhai Zheng**, Professor  
Vice President of Hohai University

08:30

### Invited Talk: Resilience Strategies for Urban Water Supply in Extremely Arid Climate Conditions in Mega-Cities

- **Xiaoqiang Shi**, Professor of Engineering  
Former Chairman of Shanghai Survey and Design Research Institute Co.

08:50

### "Water-Energy-Food" Resource Synergy Security and Technological Innovation

- **Shiqiang Wu**, Professor of Engineering  
Deputy Dean of Nanjing Hydraulic Research Institute

09:05

### Study on Major Engineering and Technical Issues of the Yellow River's Historical Water Control Hub

- **Qingbo Li**, National Master of Engineering Survey and Design  
Yellow River Survey, Planning and Design Research Institute Co.

09:20

### Based on Physical Laws, The Development of Engineering Numerical Methods

- **Genhua Shi**, Mathematical and Mechanics Scientist, Rock Mechanics Expert  
DDA Corporation, University of California, Berkeley, United States

09:35      **High-Quality Design for the Phase II Estuary Channel Project to Fully Enhance the Water Safety Capacity of the Lower Huai River**

- **Yong Sun**, Professor of Engineering  
General Manager of Zhongshui Huaihe Planning and Design Research Co.

09:50      **Exploration of Integrated River Basin Management in South China Region**

- **Yun Zhang**, Associate Professor of Engineering  
Vice General Manager of Guangdong River and Sea Engineering Consulting Co.

10:05      **Tea break**

### **Moderator**

- **Shiqiang Wu**, Professor of Engineering  
Deputy Dean of Nanjing Hydraulic Research Institute

10:25      **Invited Talk: Research on Flood Control Strategies in the Guangdong-Hong Kong-Macao Greater Bay Area**

- **Wenlong Chen**, Professor of Engineering  
Dean of The Pearl River Hydraulic Research Institute

10:45      **Building the Backbone Network for the Five Vertical and Five Horizontal Water Resource Allocation – Achieving the Blueprint for High-Quality Water Resources Development in Guangdong's '851' Plan**

- **Huirong Xu**, Professor of Engineering  
Chief Planner of Guangdong Provincial Water Resources and Hydropower Survey and Design Research Institute Co.

11:00      **Key Technologies and Practices in Digital Twin for Water Resources**

- **Lei Yang**, Associate Professor of Engineering  
China Power Construction Group East China Survey and Design Institute

11:15      **Practices of Multidimensional Flood Management in Complex Environments**

- **Fei Yan**, Professor of Engineering  
Shanghai Municipal Engineering Design Institute (Group) Co.

11:30      **Practice and Reflection on Flood Management in the Taihu Lake Basin under New Circumstances**

- **Yongming Sun**, Professor of Engineering  
General Manager of Jiangsu Taihu Water Conservancy Planning and Design Research Institute Co.

11:45      **Study on In-Situ Solidification and Resource Utilization Technologies for Sludge**

○ **Yonghui Chen**, Professor  
Dean of Suzhou Research Institute of Hohai University

**12:00      Lunch**

**Moderator**

○ **Wenlong Chen**, Professor of Engineering  
Dean of The Pearl River Hydraulic Research Institute

14:00      **Invited Talk: Water Security Risks and Responses in the Guangdong-Hong Kong-Macao Greater Bay Area**

○ **Bensheng Huang**, Professor of Engineering  
Guangdong Provincial Water Resources and Hydropower Research Institute

14:20      **Construction and Demonstration of Ecological Seawalls at the Pearl River Estuary**

○ **Zhenrui Yan**, Professor of Engineering  
Vice General Manager, Chief Engineer of Guangdong Provincial Water Resources and Hydropower Survey and Design Research Institute Co.

14:35      **Water Network Planning and Practice of Zhejiang Province**

○ **Yongjin Zhang**, Professor of Engineering  
Deputy General Manager of Zhejiang Design Institute of Water Conservancy and Hydroelectric Power Co.

14:50      **Water Network Construction Planning of Jilin Province**

○ **Weidong Liang**, Professor of Engineering  
Deputy Dean of Jilin Provincial Water Resources and Hydropower Survey and Design Research Institute

15:05      **Water Network Construction Planning of Fujian Province**

○ **Nengzhi Chen**, Professor of Engineering  
Deputy Dean of Fujian Provincial Water Resources and Hydropower Survey and Design Research Institute Co.



- 15:20      **Key Technical Issues in the Han-Wei Water Diversion Project**
- **Wenbo Song**, Professor of Engineering  
Deputy Dean of Shanxi Provincial Water Resources and Hydropower Design and Research Institute

15:35      **Tea break**

**Moderator**

- **Yuan Wang**, Professor  
Hohai University
- 15:55      **Invited Talk: Global Wave Models and Their Application in International Port Construction**
- **Yongchang Lu**, Professor of Engineering  
Chief Engineer of CCCC-FHDI Engineering Co.
- 16:15      **Key Technology Research for Long-Distance Water Transfer Projects under Complex Conditions**
- **Xiaolong Yang**, Professor of Engineering  
Deputy Chief Engineer of China Electric Power Construction Group Kunming Survey and Design Institute
- 16:30      **Analysis and Application of Radar Wavefield Time-Frequency Characteristics in Typical Hazardous Geological Formations of the Dianzhong Diversion Tunnel Project**
- **Liming Zhou**, Professor of Engineering  
Yangtze River Academy of Sciences
- 16:45      **Comprehensive Survey Technology for Deeply Buried Long Tunnels in the Yangtze-to-Han River Diversion Project**
- **Jianwei Feng**, Professor of Engineering  
Vice General Manager of Yangtze Geotechnical Engineering Co.
- 17:00      **Understanding and Practice in the Comprehensive Consultation in Hydraulic Engineering Projects**
- **Xueyi Zang**, Associate Professor of Engineering  
Vice General Manager of Guangdong Hydro-Hydraulic Engineering Consulting Co.

17:15

**Key Technology Research on West African Port Construction and Local Talent Development**

○ **Jinhai Zheng**, Professor

Vice President of Hohai University

**17:30**

**Dinner**



# LOGISTICS



# VENUE

The general meeting on October 30th will be held at the Theater (No. 05) of Hohai University's Jintan Campus .

The parallel forums on October 31st will be held at the Administrative Building (No. 06) of Hohai University's Jintan Campus. The specific arrangements are as follows:

- Integrated River Basin Management: 209
- Climate Change and Risks Management: 210
- Water Engineering and Smart Water Conservancy: 212
- Eco-environmental Protection: 311
- Conservation and High-quality Development of the Yangtze River and Yellow River Basins: 314
- Theory and Practice of Major Infrastructure Construction: 312

*Please refer to the next page for the campus map.*



# MAP INDEX



## 楼栋信息一览表

- 01 图书馆
  - 02 公共教学楼
  - 03 学生服务中心
  - 04 音乐厅
  - 05 剧场
  - 06 行政楼
  - 07 展览馆
  - 08 体育馆
  - 09 游泳馆
  - 10 体育场
  - 11-18 学生宿舍
  - 19 一食堂
  - 20-21 信息科学与工程学院
  - 22 人工智能与自动化学院
  - 23 水土保持学院
  - 30 应急管理 & 安全工程学院
  - 31 国际学术交流中心
  - 32 未来技术学院
  - 33 经济与金融学院
  - 34 河海里尔学院
  - 36-41 学生宿舍
  - 42 二食堂
  - 43 体育场
  - 45-53 学生宿舍
  - 54 三食堂
  - 55 新能源学院
  - 56 材料科学与工程学院
  - 57 机电工程学院 (教育部重点实验室)
  - 58 机电工程学院
  - 59 工程训练中心
  - 60 校医院
- 警备室 (东门二号门)  
 地下机动车停车场  
 地上机动车停车场



# TRANSPORTATION

## Shuttle Bus Schedule for Arrivals

On October 29th, we will set up pick-up points at the following airports/high-speed train stations, with transportation to Jintan Marriott Hotel.

- Nanjing Lukou Airport (Terminal 1 and 2)
- Nanjing South Railway Station
- Changzhou North Railway Station
- Jintan Railway Station

Pick up time :

October 29th at 09:00/11:00/13:00/14:00/16:00/18:00/20:00/22:00

## Shuttle Bus Schedule for Departures

From October 31st to November 1st, we will set up departure shuttle points at the Jintan Marriott Hotel, with buses heading to Nanjing Lukou Airport, Nanjing South Railway Station, Changzhou North Railway Station, and Jintan Railway Station.

Departure schedule:

October 31st at 16:00, 17:00, 18:00, and 19:00.

November 1st at 09:00/11:00/14:00.

## Shuttle Schedule During the Conference

Departure: 08:00/13:30 from Jintan Marriott Hotel to the conference.

Return: take the same vehicle back to the hotel for dinner after the afternoon session.

You can also take bus routes *126* and *112* to travel between the Marriott Hotel and the campus. Buses run every ten minutes, and you can board at either the east gate or the north gate of the campus.

# CATERING

Please be noted that you may be required to present your coupons for meals.

- 29 October 17:30-19:30     Marriott Hotel, Jintan Hall
- 30 October 12:00-13:30     No. 3 Cafeteria (No. 54), The third-floor faculty cafeteria
- 30 October 17:30-19:30     Marriott Hotel, Jintan Hall
- 31 October 12:00-13:30     No. 3 Cafeteria (No. 54), The third-floor faculty cafeteria
- 31 October 17:30-19:30     Marriott Hotel, Jintan Hall
- 1 November 12:00-13:30     Marriott Hotel, Jintan Hall

# TECHNICAL TOURS

We are organizing technical tours on November 1, and the tour routes are as follows:

- Jintan City Image Pavilion, Hua Luogeng Memorial Hall, Changdang Lake Governance Exhibition Hall, Digital Fishing Farm or Golden Ranch
- Jintan City Image Pavilion, German Center, Beehive Energy or China Innovation Aviation, Changbao Pleasant Steel Pipe or Xinwei Communication, Tongfang Nuctech

## Registration

Please register for free by scanning the QR code below.



<https://forms.yicode.org.cn/view.php?id=27236>



# SUPPORTING ORGANIZATIONS

We would like to express our gratitude to the following organizations for their support of this forum.

- The Pearl River Hydraulic Research Institute
- Guangdong Hehai Engineering Consulting Co., Ltd.
- CCCC-FHDI Engineering Co., Ltd.
- Changjiang River Scientific Research Institute
- Sinohydro Bureau 14 Co.,Ltd.
- Key Laboratory of Water Grid Project and Regulation of Ministry of Water Resources  
(CISPDR Corporation)
- Shanghai Municipal Engineering Design Institute (Group) Co., Ltd.
- Guangdong Research Institute of Water Resources and Hydropower
- Guangdong Hydropower Planning & Design Institute Co.,Ltd.
- Jiangsu Taihu Water Conservancy Planning Design Institute Co., Ltd.
- Suzhou Research Institute of Hohai University
- Guangzhou Municipal Engineering Design & Research Institute Co.,Ltd.
- Zhejiang Design Institute of Water Conservancy and Hydroelectric Power
- Shanghai Investigation, Design & Research Insititute Co.,Ltd.
- Huadong Engineering Corporation Limited