

IAHR Xi'an University of Technology Young Professionals Network

Our vision and mission

IAHR Xi'an University of Technology Young Professionals Network (IAHR-XUT-YPN) is an academic organization composed of youth members, which was officially established on June 5, 2018. It is the ninth university in China to establish YPN. The number of registered members has reached 58, mainly PhD and master students and teachers from the Xi'an University of Technology, and the majors included are mainly hydraulics and river dynamics, hydrology and water resources, environmental engineering, etc. The establishment of the IAHR-XUT-YPN has received great attention and support from Xi'an University of Technology, which has also provided convenient conditions for the development of the association. With the international communication platform of IAHR, we make reasonable use of our technical and scientific research advantages, uphold and carry forward the scientific research spirit of Xi'an University of Technology, pay close attention to the scientific and practical problems of prospective and fundamental nature in the development of water resources and environmental engineering, and carry out various activities extensively, such as: holding academic lectures and academic salons; carrying out lectures of the doctoral supervisors and outdoor large scale water resources engineering investigation and practice; actively participate in domestic and international conferences, as well as interaction with other universities, and research institutes to fully promote the exchange and discussion of association members in the field of water resources engineering, civil engineering and other disciplines.

Main goals and key objectives

1. Continued Active Involvement in Guiding Undergraduate Students

In 2025, IAHR-YPN will further strengthen its role in mentoring undergraduate students, with a continued focus on thesis guidance and professional competency development. Through tailored

lectures, academic discussions, and hands-on project supervision, we aim to deepen students' technical skills, stimulate their interest in hydrodynamics and water resources engineering, and cultivate innovative problem-solving abilities. By supporting undergraduates in real-world projects and research, we strive to bridge academic learning with practical application.

2. Organizing Professional Skills Training Sessions

Building on previous success, IAHR-YPN will organize a series of professional skills workshops targeting graduate students in 2025. These sessions will include training on specialized software such as SWMM, GIS, and Paraview, with an emphasis on hydrodynamic and urban stormwater modeling. Additionally, we will continue to offer guidance on academic resource management, literature retrieval, and research tool utilization to enhance members' efficiency and research output.

3. Hosting the Sino-German Collaborative Project Workshop on High-Resolution Numerical Modeling and Forecasting of Urban Flood Risks (2025)

In 2025, IAHR-YPN will successfully conduct the Sino-German Workshop on High-Resolution Numerical Simulation and Forecasting Methods for Urban Flooding, held on September 10. This event aims to discuss the latest advances in flood modeling methods and sustainable ecological strategies to reduce disaster risk, enhance resilience, and promote sustainable water resources management. The workshop brought together researchers from Germany and China, providing a dynamic platform for academic exchange and collaboration. Graduate members also delivered flash presentations, engaging with scholars and improving both their understanding of international cutting-edge research and their English communication skills.

4. Active Participation in YPN Online and Offline Activities

Throughout 2025, IAHR-YPN will remain actively engaged in various online meetings and offline exchanges organized by the global YPN network. These activities will enable members to stay informed about the latest trends and challenges in water resources worldwide, while facilitating cross-regional experience sharing and collaborative problem-solving. This ongoing involvement will strengthen ties with other YPN chapters and promote continuous knowledge exchange and professional networking among members.



Activities during this year

- **Name:** The Second Forum on Hydrological Process Variability Simulation and Regulation.
- **Date:** 18-21 April 2025
- **Venue:** Guangzhou, Guangdong, China
- **Objectives:** In response to extreme weather events caused by climate change, observing, simulating, and attributing changes in hydrological and related surface processes, along with implementing regulation measures, has become an urgent task and a cutting-edge research focus both domestically and internationally.
- **Description:** To address extreme weather events caused by climate change, it is crucial to observe, simulate, and analyze changes in hydrological and surface processes. Developing regulation measures has become an urgent task. This issue is a key focus of both domestic and international research.



- **Name:** The 28th Congress and the 93rd Annual Meeting of the International Commission on Large Dams (ICOLD)
- **Date:** 16-23 May 2025
- **Venue:** Chengdu, Sichuan, China
- **Objectives:** To promote international exchange and cooperation on dam engineering, safety management, technological innovation, and sustainable water resources management, and to facilitate the sharing of advanced theories, engineering practices, and policy experiences among the global dam engineering community.
- **Description:** An international forum organized by International Commission on Large Dams (ICOLD), bringing together experts, researchers, practitioners, and



decision-makers to address key technical, scientific, and managerial issues related to large dams through congress sessions, technical discussions, and annual committee meetings.

- **Name:** The 9th Forum on Water Environment Simulation and Prediction
- **Date:** 17-18 May 2025
- **Venue:** Nanning, Guangxi, China
- **Objectives:** To promote academic exchange on water environment simulation and prediction technologies, and to advance their innovative applications in ecological protection projects such as Beautiful Rivers and Lakes and Beautiful Bays.
- **Description:** To facilitate discussions and exchanges on the development and application of hydrological, hydrodynamic, water quality, and aquatic ecological simulation and prediction technologies, as well as modeling systems and integrated platforms, in areas including water resources scheduling and impacts of large-scale hydraulic (canal) projects, river and lake management and ecological restoration, pollution control in estuarine and nearshore marine areas, and emergency response to sudden water pollution incidents.



- **Name:** 2025 China Conference on Natural Resources Science
- **Date:** July 18-21, 2025
- **Venue:** Harbin, Heilongjiang
- **Objectives:** To further focus on new productive forces and innovations in resource science and technology, strengthen research on cutting-edge theories and methods, management practices, and experiential models in the field of natural resources, promote the development of natural resource disciplines and ecological civilization construction, and contribute to the comprehensive revitalization of Northeast China and the new chapter of Chinese-style modernization.
- **Description:** More than 1,300 representatives, including academicians, experts, scholars, and graduate students from across the country in the field of natural resource science, gathered in Harbin to engage in discussions and exchanges, closely focusing on the theme 'New Forces Leading Resource Science and Technology Innovation: Empowering Northeast Revitalization and Chinese-style Modernization.'



- **Name:** The 22nd China Water Forum
- **Date:** September 12-14, 2025
- **Venue:** Shaanxi, Xi'an
- **Objectives:** To better discuss and address the water resources and water environment issues faced by China, the Water Resources Professional Committee of the Chinese Society for Natural Resources and other organizations, in collaboration with Northwestern University, will hold the 22nd China Water Forum in Xi'an.



- **Description:** This conference, themed 'Human-Water Relationship and Beautiful China,' will focus on the forefront of water science research. It will cover topics such as sustainable utilization and management of water resources, water disaster prevention and risk management, water ecological health and restoration, smart water management and technological innovation, eco-hydrology and environmental protection, water resource conservation and intensive use, pollution reduction and carbon emission reduction synergistic effectiveness, human-water relationship and river ethics, ecological civilization and Beautiful China, among others, showcasing the latest achievements of scholars in the field of water science research in the new era of China.

- **Name:** The 9th Annual Forum on Urban Safety and Disaster Prevention Planning
- **Date:** October 24-26, 2025
- **Venue:** Beijing.
- **Objectives:** To promote scientific research and academic exchange in the field of resilient city construction and sustainable development.
- **Description:** This forum will be themed 'Smart Empowerment, Livable Coexistence: Resilience and Renewal of Urban and Rural Areas for the Future,' focusing on the forefront of research in urban renewal. It will address the shift in urban renewal from 'incremental expansion' to 'stock enhancement.' Numerous experts and scholars from both domestic and international backgrounds



will participate in this forum and actively engage in discussions and exchanges.

Partnerships and collaboration

Partnerships

| Organisation | Description of partnership |
|---|----------------------------|
| IAHR China Chapter | Conduct academic exchanges |
| Technische Universität Berlin | Conduct academic exchanges |
| Sun Yat-sen University | Conduct academic exchanges |
| International Commission on Large Dams | Conduct academic exchanges |
| Water Resources Professional Committee of the Chinese Society for Natural Resources | Conduct academic exchanges |
| Dalian University of Technology | Conduct academic exchanges |

Collaboration with other YPNs, associations or organisations

Participate in the "4th IAHR-YPN Doctoral Academic Forum" hosted by the National Key Laboratory of Coastal and Ocean Engineering at Dalian University of Technology in 2025.

- **Name:** 4th IAHR-YPN Doctoral Academic Forum
- **Date:** September 26-28, 2025
- **Venue:** Dalian University of Technology
- **Objectives:** Strengthen academic exchange and communication cooperation between sister institutions in the fields of hydraulic and environmental engineering, promote interdisciplinary integration, enhance graduate students' awareness of



innovation, and improve their innovation capabilities.

- **Description:** This forum provided a platform for participants to exchange academic ideas, share research experiences, and strengthen mutual friendships, while exploring cutting-edge issues in the development of water science and water environmental engineering. The event offered a rich and rewarding experience for all attendees.

Communication channels

Twitter |

Instagram |

Linked In |

Facebook |

WeChat | 水模拟及灾害管理研究中心

Website |