

IAHR Xi'an
University of
Technology
Young
Professionals
Network

2023 Annual Report
of Activities



Young
Professionals
Network

Hosted by
Spain Water and IWHR, China

1. Our vision and mission

<https://www.iahr.org/index/ypn>]

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.

2. Main goals and key objectives in 2023

In 2023, our work focuses on the following aspects:

1. Student Development in Hydrodynamic Numerical Simulation and Urban Stormwater Modeling:

In 2023, the IAHR-YPN organization focused on cultivating professional talents in the fields of hydrodynamic numerical simulation and urban stormwater modeling. This involved organizing relevant training courses, seminars, and

workshops to enhance the members' professional skills and knowledge. Through creating collaboration opportunities and actively participating in research projects, the organization aimed to facilitate the application of acquired knowledge by members in real-world projects, thereby strengthening their practical skills.

2. Member Learning, Experience Sharing, and Communication:

IAHR-YPN actively promoted the sharing of learning experiences and communication among its members in 2023. Through regularly organizing seminars, online forums, and similar activities, the organization aimed to facilitate communication and collaboration among members, encouraging the sharing of project experiences, solutions, and best practices. It created an open learning environment that encouraged members to pose questions, share challenges, and collaboratively address issues.

3. Inviting Renowned Experts and Scholars for Academic Presentations:

In 2023, IAHR-YPN successfully invited several renowned experts and scholars in the fields of hydrodynamics and urban stormwater to conduct academic presentations. This not only provided an opportunity for organization members to gain in-depth insights into cutting-edge technologies and research trends but also fostered communication and collaboration between members and these experts. The academic presentations aimed to broaden the members' perspectives, facilitate an understanding of industry development trends, and enhance their professional expertise.

4. Active Participation in YPN Partner Activities:

IAHR-YPN actively engaged in events jointly organized with partner organizations in 2023, including engineering project exhibitions, technical seminars, social activities, and more. This not only strengthened the organization's connections with other groups but also provided members with a broader platform for networking. Through participation in various activities, IAHR-YPN aimed to enhance its influence in the fields of hydrodynamics and urban stormwater and

provide members with additional opportunities to showcase their achievements and learning experiences.

3. Activities in 2023

Activity 1



The 2nd IAHR-YPN Doctoral Student Forum

Date/s

8-9 July 2023

Venue

Nanjing Hydraulic Research Institute

Objectives

The current cutting-edge topics in the field of water science and water environment engineering were investigated.

Description

Participants exchanged and deliberated on their individual research endeavors, enhancing their comprehension of pertinent scientific research matters, expanding their scientific research perspectives, and fostering real camaraderie.

Activity 2



The 8th International Joint Scientific Investigation of Hanzhong Tiankeng Groups

Date/s

4-8 May 2023

Venue

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| | Hanzhong, Shaanxi Province |
| | <p>Objectives</p> <p>The teams that took part in the activity acquired a more profound comprehension of the geological remnants of the Tiankeng Group in Hanzhong, particularly regarding the interplay between groundwater and karst systems.</p> |
| | <p>Description</p> <p>The scientific excursion team utilized a bus to examine the Zhenba Sanyuan Tiankeng Group, specifically focusing on the Tianxuan Tiankeng, Huanhuanya Tiankeng, Daodong, and Lixiping Depression. Prominent leaders and expert panels engaged in scholarly discourse over the "Research on the Culture, Ecology, Social Value, and Protection and Utilisation of the Hanzhong Tiankeng Group".</p> |

Activity 3

| | |
|---|--|
|  | 2022 China Water Academic Congress- Digital Twin |
| | <p>Date/s</p> <p>16-17 February 2023</p> |
| | <p>Venue</p> <p>Nanjing, Jiangsu Province</p> |
| | <p>Objectives</p> |

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|--|---|
| | <p>The cutting-edge and pressing matters of digital twin water conservancy development are being shared and addressed.</p> |
| | <p>Description</p> <p>The participants engaged in dialogue and consultation with pertinent specialists and researchers, thereby gaining a more comprehensive comprehension of the current state of progress in digital twin water conservancy and its profound interrelation with hydrodynamic models.</p> |

Activity 4

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|  | <p>2023 International Symposium on Sustainable Urban Drainage</p> |
| | <p>Date/s</p> <p>19-22 October 2023</p> |
| | <p>Venue</p> <p>Jiaxing, Zhejiang Province</p> |
| | <p>Objectives</p> <p>The conference seeks to assemble the industry's top-tier governance resources, engage in discussions on the cutting-edge trends in science and technology, and pursue sustainable growth.</p> |
| | <p>Description</p> <p>The participants engaged in comprehensive study and discourse</p> |

with pertinent specialists and scholars, so gaining profound insight into the cutting-edge and pressing matters concerning sustainable urban drainage.

Activity 5



The 7th Academic Forum on Water Environment Simulation and Prediction

Date/s

13 May 2023

Venue

Guangzhou, Guangdong Province

Objectives

The conference seeks to address the latest advancements in simulating and predicting the water environment of estuaries and coastal areas, as well as catchment-lake and reservoir water environments. It also focuses on integrated water environment simulation involving urban plant networks and rivers, as well as research and development of software and system platforms for water environment simulation.

Description

The participants engaged in a comprehensive discussion with Dr. Shi Baoshan, a distinguished former member of the team, and used the occasion to examine and deliberate with other professionals and scholars. It offers novel

concepts and fresh inspiration for future
advancements in related research.

4. Partnerships and collaborations

4.1. Partnerships

| Organization | Description of partnership |
|--|----------------------------|
| Nanjing Hydraulic Research Institute | Conduct academic exchanges |
| China Institute of Water Resources and Hydropower Research | Conduct academic exchanges |
| IAHR-TJU-YPN | Conduct academic exchanges |
| IAHR-SCU-YPN | Conduct academic exchanges |

4.2. Collaboration with other YPNs

1. Participated in the 2nd IAHR-YPN Doctoral Forum, organized by the YPN of Nanjing Hydraulic Research Institute.

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|---|---|
|  | <p>The 2nd IAHR-YPN Doctoral Forum</p> |
| | <p>Date/s 7-9 July 2023</p> |
| | <p>Venue Nanjing, China</p> |
|  | <p>Objectives To explore together the cutting-edge and hot issues in the development of water science and water environmental engineering.</p> |
| | <p>Description To promote interdisciplinary integration and strengthen learning, communication, and collaboration among sister institutions.</p> |

6. Communication channels

Website: [External website if any]

Facebook:

Twitter:

Instagram:

Linkedin:

Newsletter/s:

WeChat Official Account: 水模拟及灾害管理研究中心