



International Association
for Hydro-Environment
Engineering and Research
Hosted by
Spain Water and IWHR, China



Young
Professionals
Network
Hosted by
Spain Water and IWHR, China

IAHR Young Professionals Networks

Annual Report of Activities

2024



Table of Contents

Asia and Pacific.....	3
IAHR Australia Queensland Young Professionals Network	
IAHR Dalian University of Technology Young Professionals Network	
IAHR India Young Professionals Network	
IAHR IWHR Beijing Young Professionals Network	
IAHR Nanjing Hydraulic Research Young Professionals Network	
IAHR Southern-India Young Professionals Network	
IAHR Sichuan University Young Professionals Network	
IAHR Tianjin Young Professionals Network	
IAHR Tsinghua Young Professionals Network	
IAHR Wuhan Young Professionals Network	
IAHR Xi'an Young Professionals Network	
Europe.....	78
IAHR Rome Tre Young Professionals Network	
IAHR Italy Young Professionals Network	
IAHR Poland Young Professionals Network	
IAHR Spain Young Professionals Network	
IAHR Baden-Württemberg Young Professionals Network	
Latin America.....	98
IAHR Venezuela Young Professionals Network	

IAHR Queensland Young Professionals Network

Our vision and mission

The IAHR Queensland YPN brings together students and young water professionals in the science and engineering fields. The network has the support of Griffith University's Cities Research Institute.

Our mission is to establish a vibrant community of young professionals driven by leading practices in the water sector. Our strategy is to share knowledge, research ideas, project opportunities, and to promote young professionals' involvement in policy-making and strategic water research initiatives.

We also aim to build a shared vision between academia, industry and government, enabling young researchers to better identify and understand the most pressing water problems in Queensland and Australia. We encourage an interdisciplinary approach to water-related projects, that acknowledges and accounts for the complex interdependencies between water, energy, environment and climate systems, among others.

Our vision is to foster the next generation of water professionals in Queensland, to obtain the skills required to deal with, and find solutions for, the increased pressure on natural water resources that our society will face.

Main goals and key objectives

Since our YPN was formed just in late 2020, our main objective was still to promote the group by organizing a few networking events.

In addition to the events below, we focused on being active on our LinkedIn page, providing regular posts about interesting events and news.

Furthermore, starting in 2025, we will explore the potential for expanding, collaborating, and developing IAHR YPN in the fields of ocean science and engineering, as well as the blue sustainable economy. We will strengthen international exchanges with research organizations, industry, and social groups in these areas.

Activities during this year

- Name:** Announce of Sustainable Development Goal Implement in STEM from Griffith University
- Date:** 6/5/2024
- Venue:** Online
- Objectives:** Employment, Sustainable Development Goals
- Description:** IAHR YPN announced a new micro-credential by Griffith University (GU) for GU undergraduate/Master students by the LinkedIn page. "Earn a digital badge on "Sustainable Development Goals Implementation in STEM" and enhance your employability!"



- Name:** Sharing of Job Opportunity
- Date:** 17/8/2024
- Venue:** Online
- Objectives:** Employment
- Description:** IAHR YPN shared a graduate civil engineer job opportunity for the final year engineering students at City of Gold Coast by the LinkedIn page.



IAHR Queensland Young Professionals Network
 124 followers
 5mo •

Job alert for last year engineering students!



Edoardo Bertone • 1st
 Senior Lecturer at Griffith University
 5mo •

An opportunity for our final year engineering students at City of Gold Coast



Graduate Civil Engineer
 Job by City of Gold Coast
 Bundall, Queensland, Australia (Hybrid)

[View job](#)

Partnerships and collaboration

Partnerships

Cities Research Institute (Griffith University): providing facilities to help organize events.

Collaboration with other YPNs, associations or organizations

Being the only YPN in our region, it is difficult to collaborate with others rather than online. We will plan to establish close collaboration with other YPNs in the future through IHAR conferences and webinars.

Communication channels

Linked In | <https://www.linkedin.com/company/70490536/admin/>

Facebook | <https://www.facebook.com/groups/3307838082658592>

Website | <https://www.iahr.org/index/committe/125>

IAHR Dalian University of Technology Young Professionals Network

Our vision and mission

Welcome to the vibrant and collaborative community of the IAHR Dalian University of Technology Young Professionals Network (DLUT-YPN)! Our network is the nexus for young talents passionate about hydro-environment engineering, providing a platform for growth, innovation, and meaningful connections. We envision a future where young professionals in hydro-environment engineering thrive as leaders, driving innovation and sustainable solutions in the field. We provide a platform for exchange and sharing to promote academic exchanges among young scholars, so as to facilitate subsequent research work and form a virtuous circle. Our network is committed to nurturing talent and fostering a community that contributes significantly to the advancement of hydro-environmental sciences.

- I. Knowledge Exchange: Foster an environment for the seamless exchange of ideas, experiences, and cutting-edge knowledge among young professionals within IAHR.
- II. Professional Development: Empower our members with the skills and insights needed to excel in their careers. We offer mentorship, training, and resources to facilitate continuous professional growth.
- III. Networking: Build a robust network of young professionals, transcending geographical boundaries and institutional affiliations. We believe in the strength of connections and collaborative partnerships.
- IV. Research Collaboration: Encourage and facilitate collaborative research initiatives, emphasizing interdisciplinary cooperation to address complex hydro-environmental challenges.
- V. Community Engagement: Extend our expertise to the broader community through outreach programs, educational initiatives, and advocacy efforts. We strive to raise awareness about critical hydro-environmental issues.
- VI. Events and Conferences: Actively participate in and organize events, workshops, and conferences that not only showcase the capabilities of young professionals but also provide valuable platforms for learning and interaction.

Joining IAHR-DUT-YPN means embarking on a journey of exploration, connection, and professional enrichment. Join us in shaping the future of hydro-environment engineering. Explore the possibilities, make meaningful connections, and grow with us!

Main goals and key objectives

1. Expand Membership Base:

Objective: Increase our membership base within the year.

Action Plan: Implement targeted outreach programs, both locally and internationally, leveraging social media, webinars, and collaboration with academic institutions.

2. Enhance Knowledge Exchange:

Objective: Organize a series of webinars, seminars, and workshops covering diverse topics in hydro-environment engineering.

Action Plan: Collaborate with industry experts and academic leaders to curate engaging and informative events. Encourage active participation and knowledge sharing among members.

3. Professional Development Initiatives:

Objective: Facilitate skill development for young professionals.

Action Plan: Launch mentorship programs, skill-building workshops, and provide access to resources that aid in career advancement.

4. International Synergy Network Strengthening Program

Objective: Global Water Science Youth Organizations

Action Plan: Implementation path: Establish transnational partnerships for IAHR youth networks, promote joint research programs and cross-border academic activities, and build a global knowledge synergy and innovation community.

5. Research and Innovation:

Objective: Encourage collaborative research projects among our members.

Action Plan: Create a platform for members to propose and engage in joint research initiatives. Promote interdisciplinary research addressing contemporary hydro-environmental challenges.

6. Social Influence Expansion Action

Objective: Undertake outreach programs to engage with local communities.

Action Plan: Carry out water resources science popularization public welfare matrix action (community wisdom classroom + public participatory workshop + people's livelihood project practice), and promote the social transformation of knowledge achievements.

7. Host a Signature Event:

Objective: Organize a flagship event that showcases the capabilities of our members.

Action Plan: Plan and execute a major conference, symposium, or competition, providing a stage for young professionals to present their research and innovations.

8. Elevate Online Presence:

Objective: Improve the visibility and engagement of our network online.

Action Plan: Revamp and regularly update our website, increase social media presence, and launch a quarterly newsletter to keep members informed.

As we chart the course for 2024, these goals and objectives align with our commitment to building a dynamic and impactful community within the IAHR DLUT YPN. Together, we aim to achieve new milestones and contribute meaningfully to the field of hydro-environment engineering.

Activities during this year

- **Name:** Doctoral Forum on “Wise Men Discussing Water”
- **Date:** 2024.4.13
- **Venue:** Tsinghua University
- **Objectives:** Lake Environment
- **Description:** Chairman of IAHR-DUT, participated in the third IAHR PhD Forum at Tsinghua University and delivered a keynote speech on the topic



- **Name:** Changes in water environment during the freezing period of typical lakes in mid to high latitude regions
- **Date:** 2024.10.23
- **Venue:** Dalian University of Technology
- **Objectives:** Environmental Protection
- **Description:** Professor Lauri from the University of Helsinki in Finland visited China and discussed with Professor Li Zhijun and Associate Professor Chen Xiaoqiang from Dalian University of Technology about the changes in water quality during the freezing period of lakes in the China Finland region. IAHR-DUT members attended the meeting.



- **Name: Aquatic Winter Breeding Theme Conference**
- **Date: 2025.1.20**
- **Venue: Guanghe crab industry**
- **Objectives: Aquatic overwintering aquaculture**
- **Description: Professor Cheng Bin and Professor Jaane from the Finnish Atmospheric Research Institute visited the Panjin Guanghe Crab Industry Experimental Base and provided key suggestions on the overwintering breeding plan for river crabs. IAHR-DUT instructors and some members attended the meeting.**



- **Name: Academic report on the role of ecological environment and water quality monitoring under climate change**
- **Date: 2024.11.16**
- **Venue: Dalian University of Technology**
- **Objectives: Environmental Protection**
- **Description: Professor Lauri emphasized the importance of water quality monitoring for ecological environment protection in a vivid and interesting way in his report. He reviewed and introduced the 50 year history of inland water quality monitoring in Finland, and used charts to clearly display the monitoring and changes of water quality in various lakes and rivers in Finland over the past 50 years. Finally, Professor Lauri Arvola introduced the regulations and laws on water resource management issued by the Finnish government in recent years, and discussed the future development trends of water quality monitoring. IAHR-DUT members attended the meeting.**
- **Name: On site sea ice training course**
- **Date: 2025.1.23**



- **Venue:** Panjin
- **Objectives:** On site investigation of sea ice
- **Description:** The training course features the cultivation of hands-on abilities, innovatively conducting on-site experiments on the ice surface of Lake Hanzhang every afternoon based on morning classroom lectures, enhancing the hands-on abilities of young polar science and technology workers and graduate students, and increasing their intuitive understanding and comprehension of on-site sea ice investigations. IAHR-DUT members attend and are responsible for logistics support work



Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organisations

Communication channels

[Twitter](#) |
[Instagram](#) |
[Linked In](#) |
[Facebook](#) |

WeChat |
Website | <https://www.iahr.org/index/committe/31>

IAHR India Young Professionals Network

Our vision and mission

IAHR India YPN aims to build a strong and collaborative network of young professionals and students in hydro-environmental engineering. Our vision is to create a platform for learning, knowledge sharing, and innovation to address India's water challenges through research and practical solutions. **Our mission** is to connect young professionals, researchers, and industry experts to exchange ideas, collaborate on projects, and contribute to sustainable water management. We aim to:

- Promote knowledge sharing and research collaboration.
- Organize events, workshops, and training sessions for skill development.
- Encourage participation in global discussions on water and environment.
- Strengthen links between academia, industry, and policymakers.
- Support young professionals in career growth and leadership.

By strengthening the synergy between scientific research, technological innovation, and policy implementation, IAHR India YPN aims to contribute to a more sustainable and resilient water future for India and beyond.

Main goals and key objectives

Main Goals and Key Objectives:

1. **Networking and Collaboration**
 - Build a strong professional network across India.
 - Connect with other IAHR YPNs for knowledge exchange.
2. **Knowledge Sharing and Development**
 - Organize expert lectures, workshops, and conferences.
 - Provide mentorship and career support.
3. **Research and Innovation**
 - Encourage joint research and project collaborations.
 - Support young professionals in publishing and presenting work.
4. **Industry and Policy Engagement**
 - Connect young professionals with industry and policymakers.

- Promote research applications for real-world water challenges.

5. Outreach and Growth

- Increase membership and engagement through social media.
- Promote IAHR India YPN activities at national and international levels.

By achieving these objectives, IAHR India YPN will serve as a catalyst for the professional growth of young water professionals while contributing meaningfully to the hydro-environmental sector.

Activities during this year

- **Name:** Inaugural Meeting of IAHR India YPN.
- **Date:** May 10, 2024
- **Venue:** Online
- **Objectives:** To conduct the first official meeting of IAHR India YPN members.
- **Description:** The inaugural meeting of IAHR India YPN brought together members to introduce themselves and discuss their research areas. Our advisor offered valuable guidance on research, publishing, future activities, and potential collaborations, setting the foundation for the YPN's initiatives.



India
**Young Professionals
 Network**

- **Name:** 10th IAHR International Symposium on Hydraulic Structures
- **Date:** June 17 to 19, 2024
- **Venue:** ETH Zurich, Switzerland
- **Objectives:** To present research at a global platform, engage in networking, and exchange ideas with experts.
- **Description:** Three IAHR India YPN members participated in the 10th ISHS at ETH Zurich, presenting their research on side spillways, jet scour, and energy dissipators. The conference provided a platform to showcase innovations, engage with leading experts, exchange knowledge,



and establish collaborations, strengthening IAHR India YPN's presence in the global hydro-engineering community.

- **Name:** HYDRO Hackathon 2k24
- **Date:** Dec 19, 2024
- **Venue:** CWPRS, Pune
- **Objectives:** The Hydro-Hackathon at Hydro 2024, organized by IAHR India YPN and IAHR South India YPN, aims to foster innovative, sustainable solutions for pressing water challenges. It provides a platform for young professionals to explore new methodologies in reservoir de-siltation, coastal infrastructure adaptation, and hydro-environmental management.
- **Description:** The event features expert talks on innovative reservoir de-siltation using hydro-suction and climate change impacts on coastal infrastructure. Participants gain insights into practical approaches, research methodologies, and engineering solutions. The hackathon encourages collaboration, knowledge sharing, and real-world problem-solving, contributing to advancements in hydro-environmental engineering and sustainable water management.



- **Name:** Lecture on “Numerical model studies for hydraulic structures.”
- **Date:** Sep 18, 2024
- **Venue:** ICED, IIT Roorkee
- **Objectives:** To introduce first-year M.Tech students to CFD modeling through a case study.
- **Description:** IAHR India YPN members, Hariom and Rahil, conducted a lecture at ICED, IIT Roorkee, introducing first-year M.Tech students to CFD modeling and ANSYS applications in hydraulic engineering. The session featured a case



study on the Teesta-V Tunnel Spillway, providing practical insights into numerical modeling techniques for hydraulic structures.

- **Name:** IAHR India YPN 1st General body meeting
- **Date:** Aug 22, 2024
- **Venue:** Online
- **Objectives:** To plan future activities, enhance collaboration, and strengthen IAHR India YPN's engagement and outreach.
- **Description:** The first IAHR India YPN General Body Meeting discussed the annual event schedule, upcoming webinars, workshops, and conference participation. Members strategized on increasing engagement, organizing technical sessions, and fostering collaborations, ensuring the network's active involvement in global hydro-environmental initiatives.



Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organisations

- IAHR South India YPN
- Indian Society for Hydraulics (ISH)
- Central Water and Power Research Station (CWPRS), Pune
- International Centre of Excellence for Dams (ICED), IIT Roorkee

Communication channels

Linked In | <https://www.linkedin.com/company/iahrindiaypn>

Facebook | <https://www.facebook.com/groups/iahrindiaypn/>

Website | <https://www.iahr.org/index/committe/143>

Youtube | <https://www.youtube.com/@IAHRIIndiaYPN>

Mail | iahrindiaypn@gmail.com

IAHR IWHR Beijing Young Professionals Network

Our vision and mission

IAHR IWHR YPN established was established on April 12, 2011. During the period of more than twelve years, the executive committees and members have been committed to the development of IAHR IWHR YPN. On one hand, we continue to create more learning opportunities for members, and on the other hand, we have also organized some activities to strengthen the cohesion. Currently, there are 308 members of IAHR IWHR YPN, covering master students, doctoral students and some young professionals.

IAHR IWHR YPN is committed to providing a good communication platform, enabling students to broaden horizons, increase communications and show themselves among graduate students, various universities and on the international stage. We are committed to making efforts for the majority of young professionals to improve their scientific research and keep up with the frontiers and development trends of their professional areas.

Main goals and key objectives

In order to make participants more active. So the main objective is to provide services that they are interested in, such as communication activities and academic guidance for graduate students and young professionals, combining the discipline characteristics and training goals of IWHR.

Activities during this year

- **Name:** 15th International Conference on Hydroinformatics
- **Date:** May 27-30, 2024
- **Venue:** Beijing
- **Objectives:** It shares the latest scientific research advancements in the digital twinning of water resources and other captivating hydroinformatics topics.
- **Description:** The representatives of IWHR Beijing YPN attended the English report.



- **Name:** Leadership for the future, 3rd Asia International Water Week
- **Date:** September 26, 2024
- **Venue:** Beijing
- **Objectives:** It gives young professionals a unique opportunity to share their personal journeys and practical tips on career planning, professional development, and the keys to effective leadership.
- **Description:** The representatives of IWHR Beijing YPN participated in the organisation of the activity and made a speech in English.



- **Name:** Exchange activities with Civil Engineers Association of Jalisco, Mexico
- **Date:** December 16, 2024
- **Venue:** Beijing
- **Objectives:** Discussion and exchange on water resources management, development and utilization, water ecology and water environment protection and restoration.
- **Description:** The representatives of IWHR Beijing YPN participated in the organisation of the activity and made a speech in English.



Partnerships and collaboration

Partnerships

IAHR Water System Operations Working Group

Collaboration with other YPNs, associations or organisations

IAHR Tsinghua University YPN

Attend the third IAHR University YPN Doctoral Forum



Communication channels

[Twitter](#) |
[Instagram](#) |
[Linked In](#) |
[Facebook](#) |
[WeChat](#) |
[Website](#) |

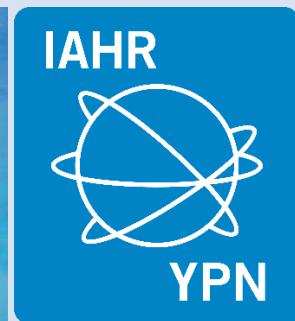
IAHR Nanjing Hydraulic Research Institute Young Professionals Network

Our vision and mission

IAHR Young Professionals Networks (YPNs) ensure that new generations of hydro-environment professionals and researchers could engage in IAHR activities, network and connect with peers and senior IAHR members, receive mentoring and support, and get access to the latest knowledge, information, and know-how in the early stage of their careers.

IAHR Nanjing Hydraulic Research Institute YPN (IAHR-NHRI-YPN) is a chapter formally established in Nanjing in May 2018 under the guidance of the IAHR China Chapter and the support of the Nanjing Hydraulic Research Institute. The number of registered members of the chapter has reached 226 by 2024. The daily activities of the IAHR-NHRI-YPN are organized and managed by the executive committee. The executive committee includes 1 president, 2 vice-president, and 6 executive members.

In 2024, YPN completed a lot of work and achieved good results. We have organized more academic activities for students and enhanced academic exchanges among members. It is the goal of the new Executive Committee to enhance everyone's knowledge and feelings by strengthening exchanges. We encourage our YPN members to participate in more domestic and international academic conferences to cultivate and improve their academic abilities. Through attending these conferences, members can expand their knowledge, gain new insights, and establish connections with scholars and professionals from different fields. This will not only enhance their academic skills but also provide opportunities for collaboration and future career development.



Nanjing Hydraulic
Research Institute
Young Professionals
Network

Main goals and key objectives

In 2024, YPN faces many new challenges. Its main tasks include (a) the production of recruitment publicity, (b) the change of the executive committee, (c) volunteer activity, (d) participating in academic competitions and (e) participating in the doctoral academic forum.

(a)&(b) In September 2024, the recruitment of new members of this year was carried out, and 28 new members were received this year through propaganda, poster posting, online publicity and other means. At present, the total number of YPN members in our institute is 226.

(c) YPN encourages our members to engage in volunteer activities that complement their academic pursuits. The aim is to foster a community of service-minded scholars who are committed to making a positive impact both within the academic community and in wider society. These volunteer opportunities not only contribute to personal and professional development but also help build a sense of camaraderie and shared purpose among student members.

(d) Active participation in academic competitions is a key endeavor for YPN, providing student members with platforms to challenge themselves and showcase their research skills. The goal is to promote a competitive yet collaborative environment where students can exchange ideas, stay updated on the latest research trends, and gain recognition for their academic achievements. Participating in these competitions serve as a valuable experience for students to refine their research methodologies and presentation skills.

(e) YPN Doctoral Academic Forum is specifically designed to support the research activities of doctoral students. The forum serves as a platform for these students to present their research, engage in scholarly discourse, and seek feedback from peers and experts alike. The purpose is to enhance the doctoral journey by offering a supportive network, fostering interdisciplinary connections, and promoting academic excellence. Through the forum, YPN aims to assist doctoral students in achieving their research goals and preparing for their future academic careers.



2024 Main goals and key objectives

Activities during this year

- Name:** Water Conservation Science Popularization
- Date:** March, 2024
- Venue:** Nan Jing, China
- Objectives:** The objective of the event is to educate and guide primary school students to cherish and protect water resources
- Description:**

During World Water Day 2024, NHRI-YPN members began to popularize science through specific data and examples, making primary school students aware of China's water shortage and the need to save water, also organized students to participate in water purification experiments and interesting water knowledge quiz activities.



水知识问答

7.下列有关自来水形成过程，排序正确的是 (D)

A. 絮凝、过滤、沉淀、消毒
B. 过滤、絮凝、沉淀、消毒
C. 过滤、沉淀、絮凝、消毒
D. 絮凝、沉淀、过滤、消毒

解析

自来水形成过程			
絮凝	沉淀	过滤	消毒
往原水中加入絮凝剂，将水中的悬浮物相互聚合成大的颗粒，方便其从水中分离、沉淀。	絮凝得到的颗粒物靠重力从水中沉降下来，沉淀后的水含有更少的杂质。	利用过滤材料对水进行逐层过滤，去除水中剩余小颗粒、杂质。	使用氯气或二氧化氯等对过滤后的水进行消毒，保证水质达到饮用标准。

- Name:** Academic report on the theme of China Water Week
- Date:** March, 2024
- Venue:** Nan Jing, China
- Objectives:** Promoting discussion and exchange on water conservancy
- Description:**

On March 21, 2024, with the theme of "Use water resources carefully and manage water resources strictly and carefully" during China Water Week, NHRI-YPN invited Senior Engineer Dai Jiangyu and doctoral students to give academic lectures and reports, which were conducted simultaneously online and offline. The reports condensed and reflected the important role played by scientific researchers in protecting and developing water resources, and reflected the important connotation of protecting and developing water resources.



- Name:** NHRI-YPN participated in Water Science Popularization Competition
- Date:** June 2024
- Venue:** Nan Jing, China
- Objectives:** The objective of the event is to enhance knowledge and awareness about the ecological aspects of water engineering projects.
- Description:**

On June 3, 2024, Nanjing Hydraulic Research Institute held the 2nd Water Science Popularization Competition. Based



on scientific theories and their practice in work, many NHRI-YPN members participated in the competition, among which Li Qinyuan and Yuan Xiaoqi won the second and third prizes respectively.



- Name:** Low Carbon Ride of China Water Week
- Date:** March, 2024
- Venue:** Nan Jing, China
- Objectives:** The activity aims to encourage postgraduates to participate in water resource protection with practical actions.
- Description:**

On March 23, 2024, during China Water Week, NHRI-YPN organized a low-carbon cycling event in Nanjing's Jiangxinzhou area under the theme "Cycling by the River." Participants cycled along the riverside route, which featured four checkpoints. The task required collecting stamps from all four checkpoints and successfully reaching the finish line. The event drew participants including students from NHRI and Hohai University, as well as cycling enthusiasts from across the community.



- **Name:** China Water Week Theme Photography Exhibition
- **Date:** March 2024
- **Venue:** Nan Jing, China
- **Objectives:** The objective of the event is to enhance public awareness of water conservation, appreciation, protection
- **Description:**

During China Water Week 2024, NHRI-YPN organised a photography exhibition on the theme of 'The Beauty of Water: Recorded and Cherished', with four sub-themes: 'Natural Water Scenery', 'Water and Life', 'Water Conservation' and 'Hydraulic Structures'. There are four sub-themes: 'Natural Water Scenery', 'Water and Life', 'Water Resource Protection' and 'Hydraulic Buildings'. The exhibition was open to all postgraduate students of the university to collect photographic works. A total of 206 submissions were received and 399 valid votes were collected. One first prize, two second prizes and three third prizes were selected according to the votes of each sub-theme.



- **Name:** The 3rd IAHR-YPN Doctoral Student Forum
- **Date:** April 2024
- **Venue:** Bei Jing, China
- **Objectives:** The objective of the event is to enhance knowledge and awareness about the ecological aspects of water engineering projects.
- **Description:**

From April 13 to 14, 2024, the 3rd IAHR-YPN Doctoral Student Forum were successfully held in Beijing. Seven members of NHRI-YPN participated in the forum and achieved excellent results, winning 2 second prizes and 2 third prizes.





- **Name:** NHRI-YPN participated in Organizing the first Badminton Competition of NHRI Graduate School
- **Date:** March 2024
- **Venue:** Nan Jing, China
- **Objectives:** The objective of the event is to enhance NHRI-YPN members' physical fitness and enrich extracurricular activities.
- **Description:**

On March 30, 2024, NHRI-YPN participated in organizing the first badminton competition of the Graduate School of Nanjing Hydraulic Research Institute, which attracted more than 60 people including NHRI-YPN members to sign up for the competition, promoting exchanges between students from different departments and majors.



- **Name:** NHRI-YPN participated in Organizing the first Table Tennis Competition of NHRI Graduate School
- **Date:** May 2024
- **Venue:** Nan Jing, China
- **Objectives:** The objective of the event is to enhance NHRI-YPN members' physical fitness and enrich extracurricular activities.
- **Description:**



From May 25 to 26, 2024, NHRI-YPN participated in organizing the first table tennis competition of the Graduate School of Nanjing Hydraulic Research Institute. The competition was divided into four events: men's singles, women's singles, men's doubles, and women's doubles. It attracted more than 50 people including NHRI-YPN members to sign up for the competition, promoting the physical health of members and enriching their spare time.



- Name:** Membership Recruitment Campaign
- Date:** September, 2024
- Venue:** Nan Jing, China
- Objectives:** The purpose of this activity is to expand the membership base of YPN, enhance the influence and participation in academic activities of the organization.
- Description:**

In March 2024, the recruitment of new members of this year was carried out. Through publicity, posters and online publicity, a total of 40 new members were received this year. At present, the number of YPN members is 226. At the same time, the executive committee has been replaced.



- **Name:** NHRI-YPN participated in the 6th Yangtze River Delta Region Civil Engineering Graduate Academic Forum
- **Date:** November 2024
- **Venue:** Hang Zhou, China
- **Objectives:** The objective of the event is to provide a platform for civil engineering graduate students in universities in the Yangtze River Delta region to display their academic achievements and exchange academic ideas
- **Description:**
 From November 9 to 10, 2024, the 6th Academic Forum and Student Work Salon of Civil Engineering Graduates of Universities in the Yangtze River Delta Region was held at Zhejiang University of Technology. The forum is themed "Forty-five Years of Hard Work, Charting a New Future" and organizes expert academic reports, thematic seminars and student work salons, the current chairman of NHRI-YPN Lu Hongning gave a wonderful report on his research topic.



- **Name:** NHRI-YPN participated in the Taihu International Conference on Water Management
- **Date:** November 2024
- **Venue:** Wu Xi, China
- **Objectives:** This conference is of great significance for promoting scientific and technological research and the transformation of achievements in Taihu Lake governance, popularizing new technologies and products for water management in the basin, and facilitating the development of new quality productivity in the Taihu Lake region.
- **Description:**
 NHRI-YPN played a significant role in the volunteer service during this event, undertaking important tasks such as preparing conference materials, receiving and signing in international guests, and guiding participants around the venue. Their outstanding contributions ensured the event's success. The YPN members performed exceptionally well in all their tasks, earning unanimous praise from Academician Hu Ya'an and Professor Philippe, the President of IAHR. Their professional skills and dedication not only guaranteed the smooth running of the event but also enhanced the international reputation of the Nanjing Hydraulic Research Institute, fully demonstrating the charm of young scholars.



Partnerships and collaboration

Partnerships

- 1.Graduate School of Nanjing Hydraulic Research Institute
- 2.Hohai University (Cooperative project)
- 3.Wuhan University (Cooperative project)
- 4.Sichuan University (Cooperative project)
- 5.Tianjin University (Cooperative project)

Collaboration with other YPNs, associations or organisations

1. Hohai University YPN (Event cooperation)

Communication channels

[Twitter](#) |

[Instagram](#) |

[Linked In](#) |

[Facebook](#) |

WeChat | Official Accounts:南京水利科学研究院研究生院

Website | https://yjs.nhri.cn/art/2023/10/31/art_3883_73255.html

IAHR Southern-India Young Professionals Network (IAHR SI YPN)

Our vision and mission

The vision of the IAHR Southern-India Young Professional Network (IAHR SI YPN) is to establish a dynamic, inclusive, and forward-thinking platform that empowers young professionals and students to address critical global challenges in water resources and environmental sustainability through innovation, collaboration, and impactful practices. The network seeks to promote interdisciplinary collaboration by creating avenues for professionals from diverse fields, such as hydrology, ocean engineering, and environmental sciences, to come together, share knowledge, and develop integrated solutions for sustainable water management and environmental stewardship. Recognising the importance of continuous growth, IAHR SI YPN is dedicated to supporting professional development through the organisation of workshops, training sessions, webinars, and technical competitions aimed at enhancing technical expertise, leadership capabilities, and career readiness among its members.

In addition, the network prioritises fostering a culture of knowledge sharing by providing a platform for members to present their research findings, engage in meaningful discussions, and gain valuable feedback from seasoned experts, thereby encouraging continuous learning and improvement. IAHR SI YPN is committed to build a robust and supportive network by connecting young professionals with peers, mentors, industry leaders, and academicians, cultivating opportunities for

collaboration, mentorship, and long-term professional relationships. By inspiring innovation and promoting research excellence, the network encourages its members to engage in groundbreaking research, adopt best practices, and contribute significantly to advancements in hydro-environmental sciences and related fields.

Furthermore, IAHR SI YPN actively raises awareness about the importance of sustainability by advocating for environmentally responsible practices, sustainable water management solutions, and the preservation of ecosystems through outreach programs, public engagement initiatives, and awareness campaigns. Through its collective efforts, the network envisions empowering the next generation of professionals and leaders to make meaningful contributions to address pressing water-related and environmental challenges while promoting a sustainable and resilient future for global communities.

Main goals and key objectives

1. Promote Interdisciplinary Collaboration

Facilitate the exchange of ideas and knowledge among professionals from diverse fields such as hydrology, ocean engineering, environmental and data sciences to develop integrated solutions for sustainable water and environmental management.

2. Support Professional Development

Organise workshops, training sessions, webinars, and technical competitions to enhance the technical and professional skills of young professionals and students.

3. Encourage Knowledge Sharing

Provide opportunities for members to present their research, participate in discussions, and receive feedback from experts to foster continuous learning and improvement.

4. Build a Strong Network

Connect young professionals with peers, mentors, industry leaders, and academicians to promote collaboration and mentorship opportunities.

5. Foster Innovation and Research Excellence

Encourage members to engage in cutting-edge research, share best practices, and contribute to advancements in hydro-environmental sciences.

6. Raise Awareness for Sustainability

Promote public awareness and advocacy for sustainable water management and environmental practices through outreach programs and campaigns

Activities during this year

- Name:** IAHR SI YPN Panel Discussion: ICSOS 2024
- Date:** September 11, 2024.
- Venue:** IIT Madras, Chennai, India.
- Objectives/Theme:** “Bridging the Gap between Ocean Engineering, Hydrology, Water Resources, and Environmental Engineering for a Sustainable Future”
- Description:**

The IAHR Southern-India Young Professionals Network (IAHR SI YPN) successfully hosted its inaugural panel discussion, "Bridging the Gap between Ocean Engineering, Hydrology, Water Resources, and Environmental Engineering for a Sustainable Future," on 11th September 2024 as



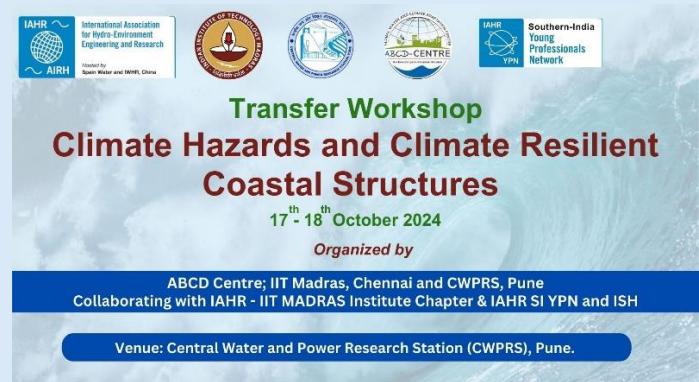
part of ICSOS 2024 at IIT Madras. Chaired by Dr. Sreeparvathy Vijay, the session featured esteemed panellists: Dr. Murali Kunasekaran (Danfoss), Mr. Satya Kiran Raju Alluri (NCCR), Ms. Kasthuri Nallayarasu (COWI), and Mr. Sanjeev Kumar K (CWC). The discussion emphasized interdisciplinary collaboration to address climate change and resource management challenges while exploring innovative solutions like nature-based coastal protection and sustainable water strategies. This landmark event attended in-person and virtually, marked the beginning of a movement fostering cross-sector dialogue and solutions for global environmental challenges.

- **Event Budget:** € 500.



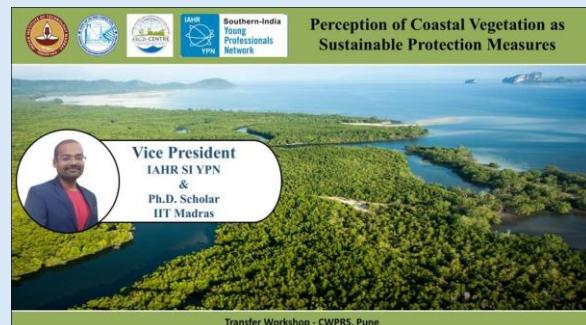
- **Name:** Transfer Workshop
- **Date:** October 17-18, 2024.
- **Venue:** CWPRS Pune, India.
- **Objectives/Theme:** “Climate Hazards and Climate Resilient Coastal Structures”
- **Description:**

The IAHR Southern-India Young Professionals Network (IAHR SI YPN) successfully hosted a Technical Transfer Workshop on "Climate Hazards and Climate Resilient Coastal Structures" on October 17-18, 2024, to address climate change impacts on coastal infrastructure



and explore innovative resilience solutions. Organised in collaboration with IAHR, IIT Madras, ABCD Centre, and CWPRS, the workshop featured distinguished speakers, including Dr. R S Kankara (CWPRS), Prof. S. A. Sannasiraj (IIT Madras), Prof. Dr.-Ing. Holger Schüttrumpf (RWTH Aachen University), Prof. Dr.-Ing. Vallam Sundar (IIT Madras) and Mr. Hari Ram N (Vice President, IAHR SI YPN), shared insights on eco-based solutions, machine learning applications, and engineered strategies for coastal resilience. The event fostered cross-disciplinary dialogue and emphasised collaborative approaches to enhance climate adaptation, leaving participants inspired to implement sustainable and innovative practices in coastal infrastructure development.

Event Budget: € 1000.



- Name:** IAHR SI YPN Field Visit

- Date:** October 19, 2024.

- Venue:** Maharashtra, India.

Objectives/Theme: To provide young professionals with valuable insights into the region's hydrological networks and the engineering solutions that sustain them, while



offering hands-on experience in water resource management and infrastructure.

- **Description:**

On October 19, 2024, the IAHR IIT Madras Institute Chapter, IAHR SI YPN, and ABCD Centre organised a technical visit to Maharashtra, providing young professionals with hands-on exposure to water resource management and hydrological engineering. The visit included exploring the Panchaganga region, highlighting watershed management practices sustaining five key rivers, and the Khadakwasla Dam, showcasing its vital role in water distribution and resilience after the 1961 Panshet Dam disaster.

The event emphasised integrating sustainable engineering with traditional strategies, equipping participants with practical insights to address climate, urbanisation, and resource challenges, and fostering future leaders in hydro-environment engineering.

Event Budget: € 500.



- **Name:** IAHR SI YPN Young Professionals Lecture Series
- **Date:** November 15, 2024.



- **Venue:** Alagappa Chettiar Government College of Engineering & Technology (ACGCET), Karaikudi, India.

• **Objectives/Theme:** The **IAHR SI YPN Lecture Series** aimed to inspire young minds and foster interest in research, engineering, and coding. This initiative highlighted the importance of engaging students at the grassroots level to nurture the next generation of innovators and leaders in hydro-environmental engineering. Encouraged by its success, **IAHR SI YPN** remains committed to organizing similar events in the future to continue empowering and inspiring young professionals.

• **Description:**

On 15th November 2024, the IAHR Southern-India Young Professionals Network (SI YPN) organised the Young Professionals Lecture Series at Alagappa Chettiar Government College of Engineering & Technology, Karaikudi, to inspire students and foster interest in research, ocean engineering, and interdisciplinary skills. The event featured insightful sessions by IAHR SI YPN leaders—Mr. Sridhar Krishnamoorthy, President, IAHR SI YPN on research methodologies, Mr. Rushikesh Kamble, Secretary, IAHR SI YPN on opportunities in ocean engineering, and Mr. Hari Ram N, Vice President, IAHR SI YPN on the importance of





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coding—along with a career development talk by Dr. Selva Ganesa Moorthi A. Supported by faculty from the host institution and guided by Prof. S. A. Sannasiraj, the initiative successfully motivated students to explore academic and professional opportunities in hydro-environmental engineering, reinforcing IAHR SI YPN's mission to empower the next generation of innovators and leaders.

Event Budget: € 300.



- Name:** IAHR SI YPN Webinar
- Date:** November 25, 2024.
- Venue:** Online.
- Objectives/Theme:** “Sustainable and Eco-Friendly Engineering Towards Future” (see Towards Future”)
- Description:**

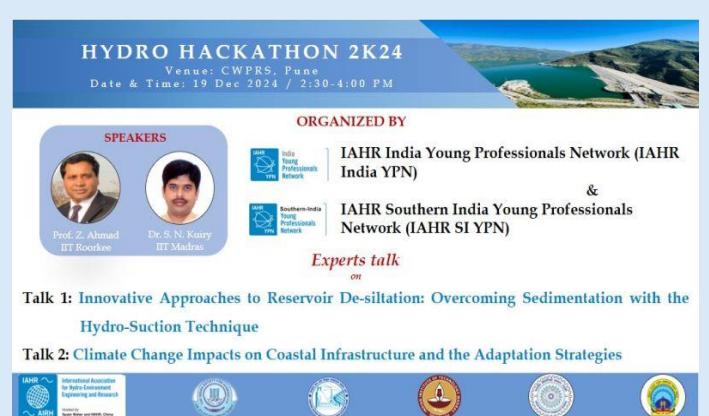
On November 25, 2024, the IAHR Southern-India Young Professionals Network (SI YPN) and the Department of Ocean Engineering, IIT Madras, hosted the webinar “Sustainable and Eco-Friendly Engineering Towards Future” (SEE Towards Future), focusing on innovative and sustainable engineering solutions for climate



resilience. Esteemed speakers included Prof. M. A. Atmanand, who emphasised the Blue Economy's potential; Prof. Manasa Ranjan Behera, on designing climate-resilient coastal structures; Dr. Sherlin Prem Nishold S, on eco-friendly use of copper slag in coastal defences; and Dr. Arnold van Rooijen, on nature-based solutions for mitigating coastal erosion. Moderated by Mr. Sridhar Krishnamoorthy, President, IAHR SI YPN, the event highlighted actionable strategies for addressing climate change impacts, balancing economic growth with marine conservation, and leveraging sustainable technologies in coastal engineering. The webinar fostered knowledge sharing and inspired attendees to adopt eco-conscious practices, contributing to global sustainability efforts.

- **Event Budget:** Nil.

- **Name:** Hydro Hackthon 2024
- **Date:** December 19, 2024.
- **Venue:** CWPRS, Pune, India.
- **Objectives/Theme:** The Hydro-Hackathon aimed to bring together young professionals, researchers, and students from diverse disciplines to collaboratively address critical water-related challenges through innovation and technical expertise. By fostering problem-



solving, leadership, and teamwork, the event sought to enhance participants' skills in hydraulics, water resources, and coastal engineering.

- **Description:**

The Hydro-Hackathon, organized on December 19, 2024, by the IAHR Southern-India Young Professionals Network (IAHR SI YPN) in collaboration with IAHR India YPN, the Indian Society for Hydraulics, and CWPRS, was a transformative initiative aimed at addressing critical water-related challenges through innovation and collaboration. Held during the prestigious 29th International Conference on Hydraulics, Water Resources, River, and Coastal Engineering (Hydro 2024), the hackathon brought together young professionals, researchers, and students from diverse disciplines to foster sustainable solutions. The event featured impactful technical talks by Prof. Ahmed from IIT Roorkee, who presented on "Innovative Approaches to Reservoir De-siltation Using Hydro-Suction Technique," and Dr. Soumendra Nath Kuiry from IIT Madras, who discussed "Climate Change Impacts on Coastal Infrastructure and Adaptation Strategies." Spearheaded by visionary leaders such as Mr. Hari Ram N, Vice President of IAHR SI YPN, the hackathon showcased the potential of young



professionals to combine technical expertise, creativity, and teamwork to address real-world water resource challenges. With a focus on enhancing technical skills, leadership, and problem-solving abilities, the event successfully promoted innovation, knowledge sharing, and collaboration, empowering the next generation of leaders in water resources and coastal engineering.

Event Budget: € 1000.

- **Name:** IAHR SI YPN Plenary Talk at SCORE 2024
- **Date:** December 24, 2024.
- **Venue:** IIT Madras, India.
- **Objectives/Theme:** “The Importance of Students and Scholars Engagement in International Societies for Enhancing Academic and Professional Growth”
- **Description:**

The *Research Scholars In-house Symposium 2024*, hosted by the Scholars' Communion of Ocean Research and Engineering (SCORE) at IIT Madras on December 26, 2024, highlighted the importance of collaboration and professional development among students, scholars, and international societies. The event featured a plenary talk by the president, IAHR Southern-



India Young Professionals Network (SI YPN), who is also founder and former chair of SCORE. The talk "The Importance of Students and Scholars Engagement in International Societies for Enhancing Academic and Professional Growth" emphasized how active participation in societies like IAHR SI YPN, Marine Technology Society (MTS), and IEEE can elevate academic and professional trajectories. It also showcased global opportunities, including prestigious scholarships such as the IAHR Research Awards, and the MTS Charles H. Bussmann Graduate Scholarship, alongside major upcoming events like the 41st IAHR World Congress, and MTS AI for Oceans 2025. Faculty advisors and mentors, including Dr. K. Narendran, Prof. S. Nallayarasu, Prof. S. A. Sannasiraj, and Dr. M. A. Atmanand, provided invaluable guidance, reinforcing the event's goal of inspiring young professionals to make meaningful contributions to ocean engineering and hydro-environmental sciences

- **Event Budget:** Nil.



Partnerships and collaboration

The IAHR Southern-India Young Professionals Network (IAHR SI YPN) collaborated and partnered with the following organisations for various impactful events:

- Indian Institute of Technology Madras (IIT Madras), India.
- IAHR IIT Madras Institute Chapter.
- IAHR India YPN.
- The Global Water and Climate Adaptation Centre - ABCD Centre, IIT Madras.
- National Institute of Ocean Technology (NIOT), India.
- National Centre for Coastal Research (NCCR), India.
- Anna University, Chennai, India.
- The Central Water and Power Research Station (CWPRS), Pune, India.
- The Indian Society for Hydraulics (ISH), India.
- Indian Institute of Technology, Roorkee (IIT Roorkee), India.
- Indian Institute of Technology, Kharagpur (IIT Kharagpur), India.
- Indian Institute of Technology, Bombay (IIT Bombay), India.
- Maulana Azad National Institute of Technology (MANIT), India.
- National Institute of Technology Tiruchirappalli (NITT), India.
- Marine Technology Society (MTS) IIT Madras Student Section.
- Marine Technology Society (MTS) India Section.
- IEEE Oceanic Engineering Society (OES) Madras Chapter.
- IEEE Oceanic Engineering Society (OES) IIT Madras Student Branch Chapter.
- IEEE IIT Madras Student Branch.
- Scholars Communion of Ocean Research (SCORE), IIT Madras, India.



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Communication channels

Linked In | [IAHR Southern-India Young Professionals Network \(IAHR SI YPN\)](#)

Website | <https://www.iahr.org/index/committe/146>

Email ID | iahrsiypn@doe.iitm.ac.in

IAHR Sichuan University Young Professionals Network

Our vision and mission

Established in 2003, IAHR Sichuan University Chapter is one of the student chapters of IAHR Association, aiming to provide teachers and students of Sichuan University with cutting-edge information in the specialised fields of river and ocean dynamics, water resources development, ecological hydraulics, ice engineering, and water informatics.

IAHR Sichuan University Chapter attracts new members every year by carrying out orientation activities, with the aim of encouraging postgraduates to devote themselves to the activities of the society in addition to completing their own scientific research tasks, and encouraging and supporting members to participate in international academic activities in the fields of hydraulics, water environment and other fields, and expanding their professional knowledge of water conservancy. The group will do a good job of communicating meetings, international conferences live notification and other information to enhance the international perspective of students.

Main goals and key objectives

- ① Encourage and support members to participate in international academic activities in the fields of hydraulics, water environment, etc., to expand their professional knowledge of water resources.
- ② Promote contacts with other water resources institutions and international water resources organisations to broaden members' horizons. Actively discuss and exchange ideas with other schools in the PhD Forum, and make progress together for the purpose of boosting the development of the association.
- ③ Provide an international platform for members. Encourage members to actively participate in the side meetings of the 24th Asia-Pacific Regional Conference to improve personal writing skills and expand communication to enhance professionalism.
- ④ Help members' future career development. By joining Chuan University IAHR Youth Chapter, you can get timely information about the industry's frontiers, get in touch with relevant conference notices, and participate in a wide range of professional development.

Activities during this year

Activity 1

- Name: The 3rd International Symposium of Water Disaster Mitigation and Water Environment Regulation, WDWE2023**
- Date: 15-17, December 2023**
- Venue: Chengdu, Sichuan Province**
- Objectives: The Association assisted in organising the Third International Conference on Water Hazard Prevention and Control and Water Environment Regulation, in which delegates, teachers and students carried out extensive exchanges on the evolution and functional protection of rivers, ecological restoration and governance of river basins, water hazard prevention and risk prevention and control, and advances in the frontiers of water science and technology.**
- Description: Members of the association actively participated in the organisation and arrangement of the conference site, while listening to the conference report and understanding the professional academic front. For the students of the Association to create a good academic atmosphere, providing many opportunities to contact the academic frontier.**



Activity 2

- **Name:** The 2nd IAHR International Workshop on Scour around Hydraulic and Coastal Structures
- **Date:** 20-23, May 2024
- **Venue:** Chengdu, Sichuan Province
- **Objectives:** The conference aims to strengthen the international exchange and cooperation between universities and research institutes at home and abroad in the research of scour theory and engineering application, and to promote the high-quality innovation and development in the field of global water conservancy and coastal engineering.
- **Description:** The opening ceremony of the conference was presided over by the executive chairman of the conference, vice-chairman of IAHR Scour Research Working Group and researcher Wang Lu of Sichuan University, while the conference chairman and vice president of Sichuan University, Liu Chao, delivered a welcome speech, and the president of IAHR, Prof Philippe Gourbesville, delivered an opening speech via video. In his speech, Vice President Liu Chao said that foundation scour is an important factor affecting the structural stability of water conservancy and coastal engineering, and related research can provide scientific basis and technical support for the safe design, construction, operation and maintenance of water conservancy and coastal engineering. More than 120 scholars from 45 universities and research institutes in 10 countries and regions, including China, the United States, the United Kingdom, New Zealand, Denmark, Switzerland,



Singapore and Turkey, participated in the conference.

Activity 3

- **Name:** 24th IAHR-APD Congress
- **Date:** 14-17, October 2024
- **Venue:** Wuhan, Hubei Province
- **Objectives:** The YPN of Sichuan University and the General Assembly jointly organised the Youth Section of the 24th Asia-Pacific Congress: How to Write a Good Journal Paper.
- **Description:** The event was characterised by a non-traditional lecture mode, but was more focused and interactive, with young people elaborating on their articles on the day of the conference, after which the editorial board critiqued them from the perspective of journal publication, to enhance international perspectives and overall personal competence.



Activity 4

- **Name:** The 3rd IAHR-YPN Doctoral Forum
- **Date:** 13-14, April 2024
- **Venue:** Beijing, China
- **Objectives:** The forum aims to provide a space and platform for postgraduate groups of water science related majors to exchange academic ideas, transfer scientific research experience, and enhance mutual friendship. It is mainly based on postgraduate academic reports, supplemented by guest reports, career development counseling lectures, and interviews and dialogues with water scholars, so as to broaden postgraduates' academic horizons,



cultivate their innovative abilities, and stimulate their academic passions. At the same time, it demonstrates the current frontier progress in the field of water conservancy engineering and promotes cross-discipline.

- **Description:** The forum was hosted by the Graduate School of Tsinghua University, the Department of Water Resources and the Graduate Students' Association of Tsinghua University, undertaken by the Graduate Students' Branch of the Department of Water Resources of Tsinghua University, and co-sponsored by Guolian Securities. With the theme of 'Water as a Ruler - Starting a New Chapter of High-Quality Development', the forum set up one main venue and six sub-venues with 12 thematic directions, and set up employment micro-salons and poster forums to promote academic exchanges. Postgraduate students from 43 universities and research institutes, including 10 Young People's Programmes (YPN) units in China, were invited to participate in this forum.

Partnerships and collaboration

Partnerships

Organisation	Description of partnership
China Institute of Water Resources and Hydropower Research	Conduct academic exchanges
IAHR-THU-YPN	Conduct academic exchanges
IAHR-XUT-YPN	Conduct academic exchanges

Collaboration with other YPNs

Participated in the 3rd IAHR-YPN Doctoral Forum, organized by the YPN of Qinghua University.

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Communication channels

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IAHR Tianjin University Young Professionals Network

Our vision and mission

IAHR Tianjin University Student Branch was established in 2011. It is a platform for academic exchanges among postgraduates majoring in hydraulic engineering and one of the important channels for the integration of hydraulic engineering at Tianjin University with international exchanges. Branch activities are divided into internal communication and intercollegiate interactions. Internal communication mainly includes new and old member exchange meetings, scientific and technological writing exchange meetings, special reports of domestic and foreign experts, and the doctoral forum of the IAHR Tianjin University Student Branch. Intercollegiate interactions mainly include the Hydraulics and Hydraulic Informatics Conference, the Tsinghua University doctoral academic forum, the IAHR China branch executive committee meeting, the IAHR Chinese Academy of Hydraulic Sciences student branch meeting and general assembly, and the international hydraulic conference.

Main goals and key objectives

The Third IAHR-YPN Doctoral Student Forum can be successfully held and recruit new YPN members at Tianjin University.

Activities during this year

- **Name:** Spring Tea Party Activity
- **Date:** 2024.03.28
- **Venue:** Tianjin University
- **Objectives:** New member meet - and - greet and discussion on how to write a paper
- **Description:** TJU-YPN held a Spring Tea Party activity. The participants discussed the topic of "How to Write a Good Scientific and Technological Paper" and shared their experiences in scientific research.



- **Name:** The Third IAHR-YPN Doctoral Student Forum
- **Date:** 2024.04.13-14
- **Venue:** Tsinghua University
- **Objectives:** YPN doctoral student forum
- **Description:** The forum alternates between academic talks and discussions to create a lively exchange atmosphere. Delegates from TJU - YPN attended and performed well. Their talks sparked immediate, heated discussions, inspiring young water conservancy scholars to actively participate and engage in in-depth exchanges.



- **Name:** The 8th Academic Forum on Water Environment Simulation and Prediction
- **Date:** 2024.5.18-19
- **Venue:** Tianjin, China
- **Objectives:** Assist in hosting an academic forum as a volunteer team
- **Description:** This forum was hosted by the Organizing Committee of the Water Environment Simulation and Prediction, with the assistance of IAHR TJU - YPN as volunteers. Experts and scholars from different organizations gave wonderful reports on various topics. On - site representatives had heated discussions with the reporting experts.



- **Name:** Presentation of the 13th IAHR TJU-YPN
- **Date:** 2024.10.25
- **Venue:** Tianjin University
- **Objectives:** Recruit New Members
- **Description:** The president and vice-president of TJU-YPN carried out the promotion activity of the 12th Student Branch of IAHR in Tianjin University, and 44 new members joined TJU-YPN.



Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organisations

IAHR Hohai University Young Professionals Network

IAHR Dalian University of Technology Young Professionals Network

IAHR Nanjing Hydraulic Research Institute Young Professionals Network (IAHR NHRI YPN)

IAHR Wuhan University Young Professionals Network

IAHR Sichuan University Young Professionals Network

IAHR Xi'an University of Technology Young Professionals Network (IAHR-XUT-YPN)

IAHR IWHR Beijing Young Professionals Network

IAHR Northwest A&F University Young Professionals Network

IAHR Tsinghua University Young Professionals Network

Communication channels

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IAHR Tsinghua University Young Professionals Network

Our vision and mission

The IAHR Tsinghua University YPN was established in 2015 and is an organization of students and young professors from Tsinghua University working in fields related to hydro-environmental sciences. Our goal is to provide a platform for members to communicate with other researchers worldwide and help our members get access to more academic resources.

Main goals and key objectives

The main goal of the Tsinghua YPN is to provide a variety of online and offline communication opportunities to excellent scholars for our members, and carry out some offline activities under an appropriate condition.

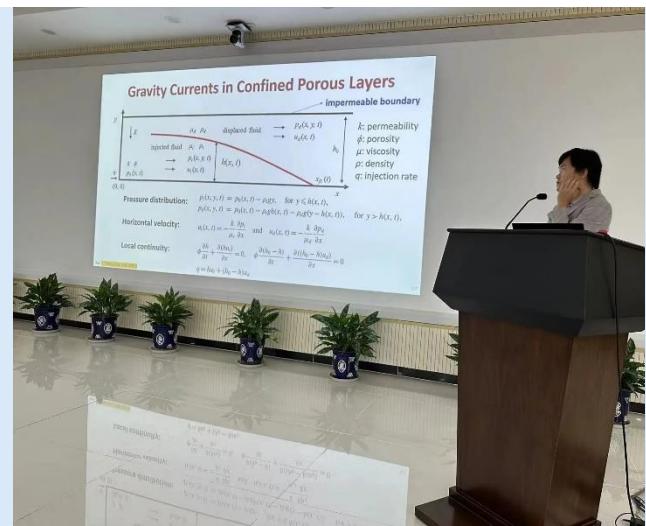
Activities during this year

Category 1: academic lectures and salons

- Name: Atmospheric rivers and natural hazards under climate change**
- Date: 2024.10.18**
- Venue: Beijing, China. Accessible online.**
- Objectives: Advances in hydroscience**
- Description:** Atmospheric Rivers (ARs) are filamentary regions conveying water vapor and their volumetric flow can be many times that of the Amazon River. This presentation will provide an overview of the links between the atmospheric rivers and the hydrological cycle worldwide. Using a New Zealand case study, the presentation will discuss a framework for linking atmospheric rivers to natural hazards. The presentation will discuss the occurrence of atmospheric rivers in different parts of the world and their impacts on natural hazards. The presentation will also discuss the impact of climate change on atmospheric rivers.



- Name: Some aspects on energy and environmental fluid mechanics: Gravity current, unsaturated flow, and hydraulic fracturing**
- Date: 2024.09.28**
- Venue: Beijing, China**
- Objectives: Advances in hydroscience**
- Description:** In the first half of this talk, we introduce recent efforts towards a unified theory of gravity current, interfacial and unsaturated flows in a porous layer: The influence of viscosity ratio is first clarified, which leads to three solution branches (shock, rarefaction, traveling wave) at intermediate times for the self-similar evolution of the fluid-fluid interfaces. The influence of wetting and capillary forces is then clarified under the assumption of vertical gravitational-capillary equilibrium.

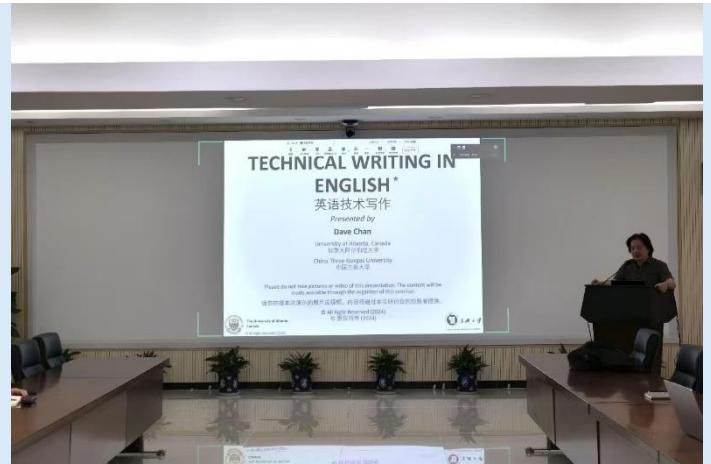


The wetting and non-wetting fluids now distribute gradually cross the sharp fluid-fluid interfaces, leading to two more basic flow patterns (capillary film, compound wave) for the profile shape evolution. In the second half of this talk, we introduce recent efforts on hydraulic fracturing of elastic solids: We first introduce the surprising appearance of cusp-shaped hydraulic fractures in a Hele-Shaw cell, whose development does not exhibit pressure singularity at the fracture's tip, which is fundamentally different from our previous understandings of hydraulic fracturing of elastic solids. We then discuss an ongoing exploration on the fixed-radius, dipole-flow and tip-receding regimes of fracture deflation, when the fracturing fluid flows back from a narrow conduit at the centre.

- **Name:** The Yellow River and management of modern China
- **Date:** 2024.10.31
- **Venue:** Beijing, China
- **Objectives:** Raising awareness about water issues
- **Description:** Professor Hou Xiaojia's review of the thoughts of important figures and the historical changes of the Yellow River leads to her thoughts on the management of the Yellow River in modern China. Afterwards, taking "Pingyuan Province," "Weishan Lake," and "Sanmenxia Dam" as specific examples, she shared her understanding, viewpoints, and thoughts on the management of the Yellow River from the perspective of a historian.



- **Name:** Technical Writing in English
- **Date:** 2024.05.20
- **Venue:** Beijing, China
- **Objectives:** Sharing experiences of English writing
- **Description:** The seminar provides an overview of technical writing in English. It will address common issues of the English language in technical writing. Examples of writing will be given to point out some common issues/mistakes. This discussion will cover the journal impact factor (JIF) and a typical structure of a journal paper and how to present the results in a story. A brief discussion on the use of artificial intelligence (AI), such as ChatGPT, to write technical paper will be given in the seminar.



Category 2: peer sharing of academic experience and professional development

- **Name:** Sharing of academic experience and skills
- **Date:** 2024.15.25
- **Venue:** Beijing, China
- **Objectives:** Delivering opportunities for learning skills
- **Description:** The student Han shared his research studies and his experience and suggestions on how to do research.



- **Name:** Sharing of experience about professional development
- **Date:** 2024.05.19
- **Venue:** Beijing, China. Accessible online.
- **Objectives:** Delivering opportunities for professional development
- **Description:** Three graduated students shared their experience and suggestions on professional development.



Category 3: academic conferences

- **Name:** The 3rd doctoral student forum of IAHR-YPN in China
- **Date:** 2024.04.13-2024.04.14
- **Venue:** Beijing, China.
- **Objectives:** providing opportunities for young researchers to communicate with each other
- **Description:** We hold this conference to provide opportunities for young researchers to communicate with each other and learn the advances in hydroscience. The conference was divided into six sub-forums, in specific, they were about the hydraulics, oceanic science, hydrology, climate change, etc.



Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organizations

In April 13th, 2024, we communicate with other YPNs in China to explore approaches on how to provide better services for our members.

Communication channels

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Website |<https://www.iahr.org/index/committe/48>

IAHR Wuhan University Young Professionals Network

Our vision and mission

IAHR Wuhan University YPN was established in 2011 and is an organisation of students and young professors working in fields related to hydro-environmental sciences from Wuhan University. Our goal is to provide a platform for members to communicate with other researchers worldwide. Our slogan is Incentive, Assistance, Horizon, and Responsibility

Main goals and key objectives

Enriching the way of activities and expanding the influence of the IAHR.

Activities during this year

- **Name:** Academic English Writing Seminar series
- **Date:** 18 December 2024, 20 December 2024
- **Venue:** Wuhan, China
- **Objectives:** To improve academic English writing skills and promote academic exchanges.
- **Description:** Invite postgraduate national scholarship recipients to share their English academic paper writing experience.



- **Name:** Questionnaire survey for events
- **Date:** 20 December 2024
- **Venue:** Wuhan, China
- **Objectives:** To better understand students' research needs, collect suggestions for IAHR activities, and enrich the content of student chapter activities.
- **Description:** The "IAHR Activity Survey" questionnaire was distributed to different groups of students at different grade levels. A total of 86 valid questionnaires were collected. It was found that there was a high demand for model learning (WRF, Pycharm, mudflow, etc.), literature reading, and sharing of scientific research tools.



- **Name:** Seminar on International Conference
- **Date:** 5 June 2024
- **Venue:** Wuhan, China
- **Objectives:** Enhance graduate students' academic communication skills and international perspective.
- **Description:** Information acquisition channels for international academic conferences, introduction to academic conferences in Water Resources, tips for academic presentations, experience and feelings of attending academic conferences



- **Name:** English Academic Poster Contest
- **Date:** 28 April 2024
- **Venue:** Wuhan, China
- **Description:** To improve students' ability to present research contents to others by Poster, and to improve their English writing and speaking skills. Description The "English Poster Contest" imitates international academic conferences to provide members with a platform to present scientific research results and promote academic exchanges. It creates a strong academic atmosphere in the college.



Partnerships and collaboration

Officers President Yuhe Zheng IAHR Wuhan University Young Professionals Network,
China Vice Presidents Yuyu Yang IAHR Wuhan University Young Professionals Network,
China Pai Peng IAHR Wuhan University Young Professionals Network,
China Mengyue Wang IAHR Wuhan University Young Professionals Network,
China Advisors Zhonghua Yang Professor of Wuhan University,
China Yuhong Zeng Professor of Wuhan University,
China Yongguang Cheng Professor of Wuhan University,
China Executive Members Yang Zhou IAHR Wuhan University Young Professionals Network,
China Yuezhi Wang IAHR Wuhan University Young Professionals Network,
China Xunuo Huang IAHR Wuhan University Young Professionals Network,
China Qingbo Wang IAHR Wuhan University Young Professionals Network,
China Yancheng Han IAHR Wuhan University Young Professionals Network,
China lanyu Qin IAHR Wuhan University Young Professionals Network,
China Mingdi Li IAHR Wuhan University Young Professionals Network,
China Duoduo Zhao IAHR Wuhan University Young Professionals Network,
China Qin Zhao IAHR Wuhan University Young Professionals Network,
China Zimeng Li IAHR Wuhan University Young Professionals Network,

Communication channels

Website / Other: WeChat subscription (水研珞珈)

IAHR Xi'an University of Technology Young Professionals Network

2024 Annual Report
of Activities



**Young
Professionals
Network**
Hosted by
Spain Water and IWHR, China

1. Our vision and mission

[A brief text about the YPN, its vision and main objectives. This text will be included in your YPN webpage. Check your page at:

<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 2024

1. Active Involvement in Guiding Undergraduate Students

In 2024, the IAHR-YPN organization continued to strengthen its engagement with undergraduate students, particularly in areas such as undergraduate thesis guidance and professional knowledge training. By organizing specialized

lectures, academic exchanges, and practical guidance, we aimed to enhance undergraduates' professional skills, foster their interest in the field of hydrodynamics and water resources engineering, and encourage innovative thinking. Through guiding undergraduate theses, we improved students' practical abilities and provided them with real-world project experience.

2. Organizing Professional Skills Training Sessions

In 2024, IAHR-YPN hosted several professional skills training sessions targeted at graduate students. Experienced PhD candidates were invited to share their expertise in using various professional software, including SWMM, GIS, Paraview, and more, with a focus on hydrodynamic and urban stormwater modeling. Additionally, training on academic paper search, download, and management was conducted to help graduate students improve their efficiency in utilizing academic resources and enhance their research capabilities.

3. Hosting the 7th China-Japan-Korea Water Science Forum - 2024 Seminar on Flood Simulation and Management

In 2024, IAHR-YPN successfully hosted the 7th China-Japan-Korea Water Science Forum - 2024 Seminar on Flood Simulation and Management. The seminar invited numerous domestic and international experts and scholars in the field of water resources to present their research on the latest advancements in flood simulation and management. By organizing this international academic event, we not only increased the organization's academic influence but also provided an excellent opportunity for members to engage in academic exchanges with leading professionals in the field.

4. Active Participation in YPN's Online and Offline Activities

In 2024, IAHR-YPN actively participated in various online meetings and offline exchange events organized by YPN. These platforms allowed members to stay updated on the latest developments in the global water resources field and provided a space for cross-regional experience sharing and problem-solving discussions. These activities strengthened our collaboration with other YPN

organizations and promoted knowledge sharing and technical exchange among members.

3. Activities in 2024

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Activity 1

	<p>The 2024 Tsinghua University "Theory of Governance and Water" and the Third International Young Scholars Forum of the International Association for Hydro-Environment Engineering.</p>
	<p>Date/s 13-14 April 2024</p>
	<p>Venue Tsinghua University</p> <p>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.</p>
	<p>Description This forum provided a platform for participants to exchange academic ideas, share research experiences, and strengthen mutual friendships,</p>

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.

Activity 2

 	<p>The First Forum on Hydrological Process Variability Simulation and Regulation</p> <p>Date/s 26-29 April 2024</p> <p>Venue Shenzhen</p> <p>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.</p> <p>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.</p>
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This issue is a key focus of both domestic and international research.

Activity 3

 	<p>15th International Conference on Hydroinformatics</p> <p>Date/s 27-30 May 2024</p> <p>Venue Beijing</p> <p>Objectives "From Natural to Digital Water: Challenges and Opportunities" covers six subtopics, including monitoring, modeling, big data, digital twins, climate adaptation, and digital water management. The goal is to advance water information technology and its practical applications.</p> <p>Description Experts and scholars from around the world gathered to discuss digital twin water infrastructure and water information technology through talks, exhibitions, and field visits, promoting technology development and application. They engaged in learning and discussions with other experts and scholars at the conference.</p>
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Activity 4

	<p>Seminar on Flood Modelling and Environmental Flows</p> <p>Date/s 15-21 August 2024</p> <p>Venue Berlin, Germany</p> <p>Objectives To discuss the latest developments in flood modeling methods and sustainable development strategies for the ecological environment, in order to reduce disaster risks, enhance disaster resilience, and improve sustainable water resource management levels.</p> <p>Description The attendees had academic exchanges with relevant experts and researchers, comprehensively exploring the latest developments in flood modeling methods and sustainable development strategies for the ecological environment.</p>
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Activity 5

	<p>The 11th National Conference on Hydraulics and Hydraulic Informatics</p> <p>Date/s 7-9 November 2024</p> <p>Venue Guangzhou, Guangdong Province</p> <p>Objectives</p>
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The conference will exchange and discuss key and difficult issues, industry development plans, project application requirements, advanced hot technologies, etc. in the field of hydraulics and water conservancy informatics.

Description

The attendees had academic exchanges with relevant experts and researchers, comprehensively exploring the latest technological products and technologies in the fields of hydraulics and hydraulic informatics.

Activity 6



The 7th China-Japan-Korea Water Science Forum - Flood Simulation and Management 2024

Date/s

22 November 2024

Venue

Xi'an, Shaanxi Province

Objectives

The meeting will discuss key research and application challenges in simulating urban and river flooding processes and disaster management, exchange experiences and ideas, and seek future cooperation opportunities

Description

The attendees discussed various aspects of flood modeling and management with other experts and researchers, including modeling, prediction, and warning technologies; The application of artificial intelligence in flood modeling and management; The impact of constantly changing global risks on floods; Composite flood disaster; Sustainable methods for flood risk management; Lessons learned from recent flood disasters, etc.

4. Partnerships and collaborations

4.1. Partnerships

Organisation	Description of partnership
Tsinghua University	Conduct academic exchanges
Sun Yat-sen University	Conduct academic exchanges
IAHR	Conduct academic exchanges
Technische Universität Berlin	Conduct academic exchanges
China Society for Hydropower Engineering; IAHR China Chapter	Conduct academic exchanges
Xi'an University of technology; Jilin University; Japan Kumamoto University	Conduct academic exchanges

4.2. Collaboration with other YPNs

Participated in the 2024 Tsinghua University "Governance and Water Theory" and the 3rd International Young Scholars Forum of the International Water Environment Engineering Association.



The 2024 Tsinghua University "Theory of Governance and Water" and the Third International Young Scholars Forum of the International Association for Hydro-Environment Engineering.

Date/s

13-14 April 2024

Venue

Tsinghua University

Objectives

Strengthen academic exchange and communication cooperation between sister institutions in the fields of hydraulic and environmental engineering,

	<p>promote interdisciplinary integration, enhance graduate students' awareness of innovation, and improve their innovation capabilities.</p>
	<p>Description</p> <p>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.</p>

5. 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

IAHR Roma Tre Young Professionals Network

Our vision and mission

The International Association for Hydro-Environment Engineering and Research (IAHR) is dedicated to connecting professionals and students in the hydro-environmental field worldwide, fostering collaboration, knowledge exchange, and innovation in an international environment.

Since 2020, the Young Professional Network (YPN) Roma Tre has proudly contributed to this mission, bringing together a dynamic team of early-career researchers and professionals. The IAHR Roma Tre YPN is composed of PhD students and young professionals with backgrounds in engineering and physics from Roma Tre University in Rome, Italy.

Our network serves as a platform for interdisciplinary collaboration, enabling members to engage in scientific discussions, develop technical skills, and participate in international initiatives aimed at addressing key challenges in hydro-environmental research. To achieve these objectives, we actively participate in national and international conferences, workshops, and collaborative projects, strengthening connections with other Young Professional Networks and research groups worldwide. Moreover, we are committed to the dissemination of knowledge not only among university students but also to the general public. Through presentations, seminars, and interactive workshops, we strive to share scientific research with citizens and curious minds of all ages. Dedicated "research days" offer hands-on experiences and educational activities, reinforcing our goal of making hydro-environmental science accessible and engaging for a broader audience.

Main goals and key objectives

Our primary goal is to promote the exchange of experiences, research advancements, and technical skills across different domains, with a particular focus on experimental, theoretical, and computational fluid mechanics. Through our initiatives, we seek to inspire curiosity, encourage innovation, and contribute to the advancement of hydro-environmental sciences, fostering a new generation of professionals equipped with the skills and vision to address global water-related challenges.

Activities during this year

- **Name:** 8th IAHR Europe Congress
- **Date:** 4-7 June 2024
- **Venue:** Lisbon, Portugal
- **Description:** This congress is a prestigious gathering of experts and professionals from around the world and presents an unmissable opportunity for collaboration, given the relevance of our chosen main theme, Water - Across Boundaries, as well as the high quality of technical visits and sessions, the advances in



hydro-environment worldwide, to be showcased

- **Name:** RESEARCHERS' NIGHT
- **Date:** 27 sept. 2024
- **Venue:** Rome, Italy
- **Objectives:** To bring science and researchers among citizens, young people and students.
- **Description:** we seek to inspire curiosity, encourage innovation, and contribute to the advancement of hydro-environmental sciences, fostering a new generation of professionals equipped with the skills and vision to address global water-related challenges.

- **Name:** PHD Life
- **Date:** 10 dec. 2024
- **Venue:** Roma Tre University, Rome, Italy
- **Objectives:** to promote interactions/ collaborations that help improve the ecosystem of research in our department.
- **Description:** Social event that aims to strengthen interactions between PhD students. Three PhD students and one senior expert propose brief presentations to inspire the whole group on multiple research topics.



Partnerships and collaboration

Some of our members collaborate with the following organizations in order to conduct their researches:

- Marine science institute CNR-ISMAR
- Laboratory of Geophysical and Industrial Flows CNRS-LEGI
- University of Lisbon

Communication channels

Linked In | <https://www.linkedin.com/company/iahr-roma-tre-ypn>

IAHR Italy Young Professionals Network

Our vision and mission

The Italian YPN aims to connect researchers, professionals and PhD students who carry out professional and research activities in the water sector, working in Italy or living abroad but having some connections with Italy. Currently, the Italian YPN hosts people from Switzerland, Finland, Croatia, Switzerland, Brazil, Ecuador, Tunisia, Palestine, the United Kingdom, Vietnam, and India.

Main goals and key objectives

The mission of this YPN is to enhance networking and sharing between young researchers at the national and, possibly, international level.

For this purpose, the newly established Italy YPN leadership team proposed a rich calendar of activities, mainly webinars, in the first semester of 2023. However, the participation of YPN members dramatically diminished over time, with no speakers volunteering for webinars in the second half of the year.

For this reason, the leadership team set a dialogue with members to understand their interests and potentially adapt the 2024 calendar to their requests. Due to missing response, no other activities were organized in 2024.

Activities during this year

- **Name:** Annual meeting with the YPN members
- **Date:** 23 January 2024
- **Venue:** Online
- **Objectives:** Define objectives and activities for the year
- **Description:** Discussion with participants of potential activities, due to the decreasing interest in the proposed webinars. Conclusions led to considering webinars still the most interesting activities but without volunteers to present any topics except for the leadership team members.

Partnerships and collaboration

Partnerships

[ECoENet – Early Careers on Ecohydraulics Network](#) | Mutual advertising of events on social media and communication channels.

Collaboration with other YPNs, associations or organisations

[IAHR Roma Tre Young Professionals Network](#) | Potential twinning between the two Italian YPN networks. Mutual advertising of events on social media and communication channels. Possibility to co-organise events in the future.

Communication channels

Facebook | <https://www.facebook.com/groups/471877636270342>

Linkedin | <https://www.linkedin.com/groups/8477897/>

Twitter | <https://twitter.com/lahrlItaly>

Youtube | [IAHR ITALY YPN - YouTube](#)

IAHR Poland Young Professionals Network

Our vision and mission

The mission of the IAHR Poland YPN is to integrate the community of water-environmental scientists and practitioners, and in particular early-career researchers in Poland. The Poland YPN also aims to promote awareness on hydro-environmental issues and create a roundtable for ideas and innovation, knowledge-exchange and collaboration.

Main goals and key objectives

Our mission is to offer a sustainable perspective on water-related issues, with the focus on the Polish environment. Our aim is to promote awareness of hydroenvironmental issues and create a roundtable for ideas and innovation, knowledge exchange and collaboration involving the youth in the process.

- Recruit new members and involve Polish young academics and professionals in IAHR.
- Get involved in IAHR events and promote them among our members and polish institutes.
- Organize new webinars for promotion of IAHR and current hydro-environmental knowledge.

Activities during this year

- **Webinar on the World Water Day 2024 – Water for Peace and Prosperity**
- **Date:** 22nd March 2024
- **Venue:** online meeting
- **Objectives:** Promoting the World Water Day 2024 theme: Water for Peace and Prosperity
- **Description:** During the webinar, two distinguished guests shared their perspectives on water, peace, and prosperity: Andrew Allan, Senior Lecturer at the UNESCO Centre for Water Law, Policy, and Science at the University of Dundee, Scotland, and Wajkira Takala Dibaba, Assistant Professor at the Jimma Institute of Technology in Ethiopia. The event was attended by 96 participants from 39 countries.

- **River Flow 2024. 12th International Conference on Fluvial Hydraulics**
- **Date:** 2 to 6 September 2024
- **Venue:** Liverpool John Moores University, UK
- **Objectives:** present and interact with the latest experimental, theoretical and computational findings on fundamental river flow and transport processes, river morphology and morphodynamics.
- **Description:** Michael Nones (YPN advisor), Arianna Varrani (treasurer), and Yiwei Guo (secretary) attended and all of them presented their research.



- **24th IAHR Asia and Pacific Division Congress**
- **Date: 14 to 17 October 2024**
- **Venue:** Wuhan, China
- **Objectives:** Dedicating to the latest water issues in the Asia-Pacific region and beyond.
- **Description:** Yiwei Guo presented the progress of her PhD project, giving a presentation entitled 'Effects of extreme flooding on river morphology and riparian vegetation', which received positive feedback from the audience and sparked interest in the future results of her research. Michael Nones chaired and participated in an event for young professionals entitled 'A mentoring course in scientific article writing', where former and current IAHR editors (including Michael) discussed articles written by six young researchers, giving them feedback and tips to facilitate their future publications. Additionally, Michael Nones co-chaired a Special Session entitled 'Sustainable Sediment Management in Reservoirs' with Zhongwu Jin from the Changjiang River Scientific Research Institute (CRSRI). During this session, five speakers presented examples of monitoring, modelling and sediment management in reservoirs, showcasing examples from China and Japan.



- **5th IAHR Young Professionals Congress**
- **Date: 27-29 November 2024**
- **Venue:** Online meeting
- **Objectives:** Giving young professionals, researchers and students the opportunity to present their work, access mentoring from leading global experts and network



with other young professionals and experts.

- **Description:** Michael Nones is the chair of the Organising Committee of the 5th IAHR Young Professionals Congress and Yiwei Guo gave a presentation.

Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organisations

Collaboration with the UNESCO Ecohydrology Youth Network

Communication channels

Facebook: <https://www.facebook.com/IAHRPolandYPN>

LinkedIn: <https://www.linkedin.com/in/iahr-poland-young-professionals-network/>

IAHR Spain Young Professionals Network

Our vision and mission

The IAHR Spain Young Professional Network is aimed at young researchers and technical profiles in companies and industry, linked to water engineering in Spain. Currently, the Spain YPN has more than 40 members and representation in 9 Spanish Universities. The main objectives of the Spain YPN are to promote interaction and collaboration among the members of the YPN itself, as well as to cooperate with other national and international networks; to actively participate in the technical committees and working groups of the IAHR; and to foster dissemination activities and promote projects and research related to water engineering.

The IAHR Spain Young Professional Network has been recognised with the award to the most active Young Professional Network in the European division in 2020 and 2022.

Main goals and key objectives

The IAHR Spain Young Professional Network was consolidating its position as a national network this 2024, organizing activities by YPN members from different institutions and involving non-active and potential members. The YPN has also initiated solid relations with the IAHR Spanish chapter to collaborate in activities at a national level and reach a higher number of institutions. Promoting YPN activities, job opportunities, and projects and works developed by YPN members was also a key objective set for this year, focusing efforts through the YPN Twitter account, which has grown to more than 420 followers in four years. In 2025, the main goal will be to strengthen collaboration with the IAHR Spanish Chapter and other institutions, expand outreach efforts through social media and professional networks, and further promote YPN activities to ensure its continued growth and impact as a reference platform for young professionals in the water sector.

Activities during this year

- **Name:** Spain YPN Meeting
- **Date:** 15 April 2024
- **Venue:** Online
- **Objectives:** Networking among YPN members
- **Description:** Annual meeting of YPN members where the management team renewal and the organization of the INTERJIA seminar were decided.



Spain
Young
Professionals
Network

- **Name:** INTERJIA seminar organization
- **Date:** 23-24 October 2024
- **Venue:** Madrid. Open for registration with fees.
- **Objectives:** Scientific dissemination
- **Description:** Open scientific seminar for young water professionals.



- **Name:** Publication of the book of abstracts of the 1st INTERJIA Seminar
- **Date:** 23-24 October 2024
- **Venue:** Online
- **Objectives:** Scientific dissemination
- **Description:** Abstracts of the presentations made at the seminar. ISBN: 978-90-834302-4-9



- **Name:** Guided visit to the Studies and Experimentation Center for Civil Engineering (CEDEX)
- **Date:** 23 October 2024
- **Venue:** Madrid
- **Objectives:** Technical visit
- **Description:** Explanation of the main lines of work in physical and numerical models being carried out in Spain.



- **Name:** Guided visit to the Arroyofresno stormwater tank
- **Date:** 24 October 2024
- **Venue:** Madrid
- **Objectives:** Technical visit
- **Description:** Guided tour of the largest storm tank in Europe and among the largest in the world.



- **Name:** YPN Night
- **Date:** 23 October 2024
- **Venue:** Madrid
- **Objectives:** Networking among YPN members
- **Description:** Networking evening for all seminar participants who were young professionals in which a dinner was held with various recreational activities, such as a kahoot, related to water.



Partnerships and collaboration

Partnerships

- Collaboration with the IAHR Spanish chapter has been renewed. Permanent organization committee of the Spanish Water Engineering Days (Jornadas de Ingeniería del Agua, JIA): It was decided that a representant of the Spain YPN will be member and will participate in the organization committee meetings for the organization of the following conferences.
- Collaboration with the Centro de Estudios y Experimentación de Obras Públicas (CEDEX) has been renewed.
- A collaboration with the company Canal de Isabel II has been initiated. This is the company that supplies drinking water to the city of Madrid.
- IAHR: Members of the IAHR Spain YPN were helping organizing the IAHR YPN online conference and participating as co-editor and reviewers for the YPN journal 'Revista hidrolatinoamericana de jóvenes investigadores'.
- Co-UDlabs project: The YPN has been disseminate project activities as the call for transnational access, hackathon and training opportunities.

- RedSUDS: The YPN has been disseminating RedSUDS events (Spanish professional network on SUDS)

Collaboration with other YPNs, associations or organisations

In contact with iberoamerican YPNs through whatsapp group.
Help in sharing IAHR and YPN activities by twitter.

Communication channels

Twitter | <https://twitter.com/spainypn>

Email | SpainYPN@upct.es

IAHR Baden-Württemberg Young Professionals Network

Our vision and mission

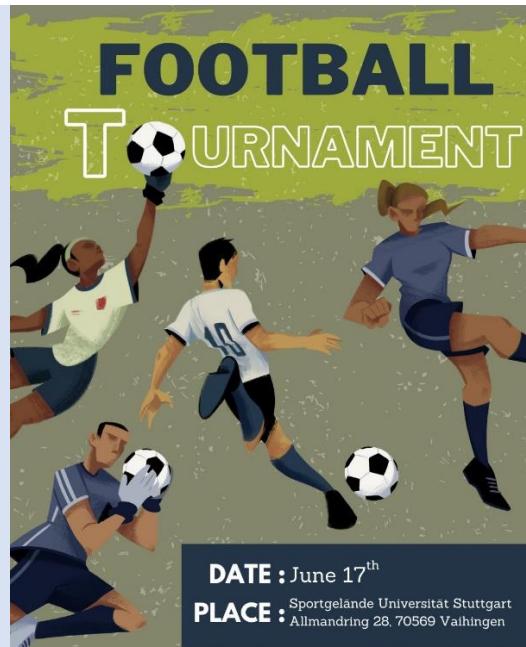
IAHR Baden-Württemberg is committed to promoting student activities and facilitating communication among young water professionals and internationally renowned researchers. Through collaboration and knowledge exchange, we aim to foster innovation and excellence in the field of hydro-environment engineering.

Main goals and key objectives

The main goals of our committee were to enhance networking opportunities, facilitate knowledge exchange, and promote professional development among young water professionals. Key objectives included organizing regular networking events, workshops and seminars, fostering collaboration with related programs and organizations, and actively engaging with local communities to raise awareness about water-related issues and promote sustainability practices.

Activities during this year

- **Name:** Football Tournament
- **Date:** 17.06.2023
- **Venue:** Stuttgart, Germany
- **Objectives:** Involving companies and students to foster networking opportunities.
- **Description:** It was a football tournament where companies and students connected in a relaxed atmosphere, fostering valuable connections. The event also served as a fund-raising opportunity, generating funds to support upcoming activities.



- **Name:** BBQ GRILL
- **Date:** 17.06.2023
- **Venue:** Stuttgart, Germany
- **Objectives:** To facilitate networking and socialization among IAHR-YPN BW members, friends, and WAREM students through a post-tournament BBQ GRILL event.
- **Description:** After the tournament, IAHR-YPN BW committee organized BBQ GRILL, extending warm invitations to members and

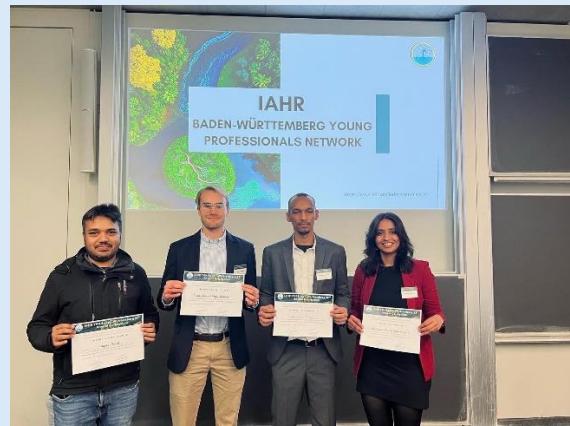


their connections. With mouthwatering snacks, chilled drinks, and a grill sizzling with perfection, the scene was set for chill chats and genuine connections.



- Name:** IAHR YPN Baden-Wurtemberg 22nd Annual Colloquium: Addressing sustainable water management in light of Hydrological Connectivity and Ecohydraulics.
- Date:** 24.11.2023
- Venue:** Stuttgart, Germany
- Objectives:** To provide insights on sustainable water management and Ecohydraulics.
 To facilitate networking among attendees.
 To promote IAHR-YPN BW membership.
- Description:** The event provided a unique opportunity for participants to gather expert insights and appearing leadership perspectives on critical topics impacting the water sector. Attendees also capitalized on networking prospects, forging valuable connections, and contributing to vibrant discussions with peers and industry experts alike. Concurrently, the colloquium served as a channel for membership engagement and recruitment, showcasing the manifold benefits of affiliating with IAHR-YPN BW, from exclusive event access to tailored professional development initiatives. Through targeted outreach and interactive engagement strategies, participants were encouraged to consider membership, thereby enriching their involvement in the hydro-environmental community and unlocking the myriad opportunities inherent in association with the organization.





- **Name:** Movie night “Home”
- **Date:** 07.12.2023
- **Venue:** Stuttgart, Germany
- **Objectives:** Raising awareness about the importance of water conservation.
- **Description:** IAHR members, environmental engineering students, and WAREM students gathered for a movie to raise environmental awareness. Post-viewing discussions focused on water impacts and broader environmental challenges.





- **Name:** BAW Bundesanstalt für Wasserbau Lab Tour
- **Date:** 15.12.2023
- **Venue:** Karlsruhe, Germany
- **Objectives:** Providing IAHR YPN Baden-Württemberg members with an exclusive opportunity to gain insights into current projects at the Federal Waterways Engineering and Research Institute.
- **Description:** Participants had the unique opportunity to explore the institute's facilities and gain insights into cutting-edge research and developments in water engineering. This members-only event provided valuable networking opportunities and showcased the benefits of association membership.



Partnerships and collaboration

Partnerships

We worked together with the Bachelor's Program in Environmental Engineering and the international WAREM Master's Program of the University of Stuttgart.

Collaboration with other YPNs, associations or organisations

None

Communication channels

Instagram | <https://www.instagram.com/iahrbw/>

Linked In | <https://www.linkedin.com/company/iahr-bw/>

Facebook | <https://www.facebook.com/iahrbw/>

Website | <https://iahrbw.wordpress.com/>

IAHR Venezuela Young Professionals Network

Our vision and mission

Mission:

The mission of a YPN (Young Professionals Network) is to bring together young professionals from various disciplines to foster knowledge exchange, create collaborative networks, and develop professional skills. Through events, courses, and educational activities, it aims to support the professional and personal growth of its members, promoting innovation, leadership, and active participation in the sector.

Vision:

The vision of a YPN is to become a global reference in the development of young leaders in its field, contributing to the continuous improvement of engineering and other disciplines by integrating new ideas and approaches. It envisions itself as a dynamic and accessible network that drives sector transformation through continuous education, teamwork, and international collaboration.

Main goals and key objectives

- Promote collaboration and knowledge exchange with young professionals in the fields of hydraulic and environmental engineering.
- Continue organizing educational events and activities.
- Create the first YPN course.
- Participate in international conferences and activities, expanding knowledge and networking on a global scale.

Activities during this year

- **Name:** Interactive Webinar "Fluid Conversations" - "From the Heart of Argentina's Sewers to the Royal British Waters".
- **Date:** Monday, February 5, 2024
- **Venue:** Universidad Católica Andrés Bello (UCAB) - School of Civil Engineering (Online Event)

- **Objectives:**

- Analyze the differences in water management between the United Kingdom and Argentina.
- Understand the challenges and opportunities in the water industry in both countries.
- Foster knowledge exchange among professionals in the hydro-environmental sector.
- Promote learning and discussion about policies and technologies in water management.

- **Description:**

This interactive webinar, organized by the Venezuela Young Professionals Network (YPN Venezuela) and the Venezuelan Society of Hydraulic Engineering in collaboration with Universidad Católica Andrés Bello (UCAB), features Ana Rappoport, M.Sc. in Environmental Engineering. The session will explore key differences in water management between the United Kingdom and Argentina, covering essential topics such as regulation, infrastructure, and sustainability in both countries. This event is aimed at students, professionals, and experts interested in the water industry and environmental issues.

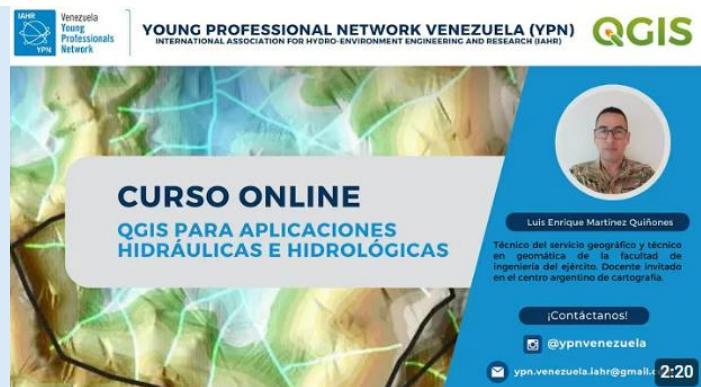


- **Name:** Free Workshop - "QGIS for Hydraulic and Hydrological Applications"
- **Date:** Tuesday, May 7, 2024
- **Venue:** Online event organized by Venezuela Young Professionals Network (YPN Venezuela)
- **Objectives:**
 - Introduce participants to the use of QGIS for hydraulic and hydrological analysis.
 - Demonstrate practical applications of QGIS in water resource management.
 - Provide tools and techniques for professionals and students in the hydro-environmental sector.
 - Encourage the use of open-source GIS software for hydrological modeling.
- **Description:**

This free workshop, led by Luis Enrique Martínez Quiñones and organized by YPN Venezuela, focuses on the application of QGIS for hydraulic and hydrological studies. Participants will learn key concepts, workflows, and practical examples to enhance their skills in using GIS for water-related projects. This event is ideal for students, professionals, and researchers in hydrology, engineering, and environmental sciences.



- **Name:** Online Course - "QGIS for Hydraulic and Hydrological Applications"
- **Venue:** Online event organized by Young Professional Network Venezuela (YPN Venezuela)
- **Duration:** 10 classes of 2 hours each
- **Objectives:**
 - Train participants in the use of QGIS for hydraulic and hydrological analysis.
 - Provide practical knowledge on geographic data management for water resources.
 - Demonstrate real-world applications of QGIS in hydro-environmental studies.



- Promote the use of open-source GIS software in engineering and research.

- **Description:**

This online course, consisting of 10 classes of 2 hours each, was led by Luis Enrique Martínez Quiñones, a specialist in geospatial analysis and geomatics. The course provided an in-depth look at how QGIS can be used for hydraulic and hydrological applications. Participants explored essential tools, workflows, and case studies relevant to water resources management. This course was designed for engineers, students, researchers, and professionals in hydrology, environmental science, and geographic information systems.

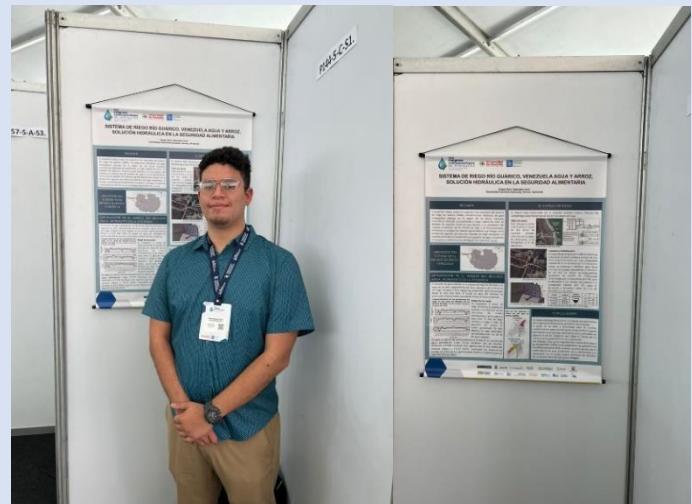
- **Name:** Participation in XXXI Latin American Hydraulic Congress.
- **Date:** October 1-4, 2024.
- **Venue:** Medellín, Colombia.
- **Objectives:**

- To present the paper “*Río Guarico Irrigation System, Venezuela: Water and Rice, A Hydraulic Solution for Food Security*”.
- To connect with other professionals in the field of hydraulic engineering.

- **Description:**

YPN Venezuela member Sebastián Cova participated in the *XXXI Latin American Hydraulic Congress* with his paper titled “*Río Guarico Irrigation System, Venezuela: Water and Rice, A Hydraulic Solution for Food Security*”, in collaboration with Prof. Eng. Sergio Silva from Universidad Central de Venezuela. The paper explored the critical role of hydraulic infrastructure in ensuring food production and food security in the region.

In addition to the conference sessions, Sebastián had the opportunity to visit two impressive projects in Colombia:



- *Hidroituango Dam*: A massive hydroelectric project showcasing the power of engineering to harness natural resources for sustainable energy production.
- *Aguas Claras Wastewater Treatment Plant*: A state-of-the-art facility that manages and treats wastewater, demonstrating innovative solutions in water management and environmental protection.



As well as this presentation, two other articles were accepted for the congress but were not presented due to economic costs. These articles were:

- “Calibración del Modelo Hidráulico en HEC-RAS 2D de un Segmento del Río Rojo en Louisiana, USA” by Dayana Pita.
- “Propuesta de un Sistema de Control para una Planta Depuradora Piloto” by Manuel Hernández.

Notificación de aceptación de resumen   Recibidos x

Comité Científico Congreso Latinoamericano de Hidráulica 2024 <contacto@xxxi.congresolatinoamericanohidraulicamedellin.com>
 para mí

29 abr 2024, 10:58 p.m.



Estimado: Dayana Catherin Pita Ramírez, Vanja Hatic, Eaden Olio Olandiya

Nos complace anunciarle que su trabajo titulado:

Autores:

Dayana Catherin Pita Ramírez, Vanja Hatic, Eaden Olio Olandiya

- **Name:** EXPO CIVIL.
- **Place:** Sanitary Engineering Building, Central University of Venezuela, (UCV).
- **Date:** October 31, 2024
- **Objectives:**

- To present the activities carried out by the YPN network to students and professionals in the field of civil engineering.
- To recruit new members for the YPN network.

- **Description:**

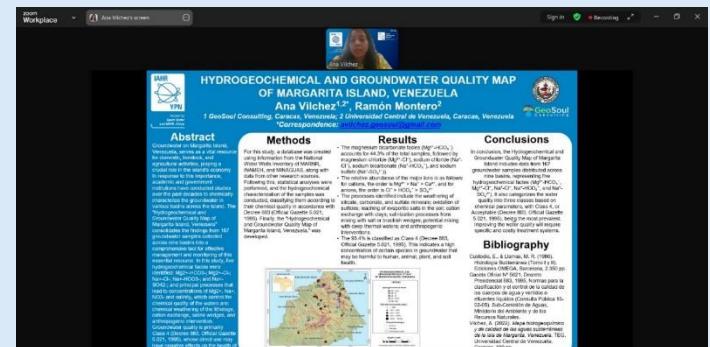
YPN Venezuela was part of the first Civil Expo organized by the School of Sanitary Engineering at the Universidad Central de Venezuela. The event provided an opportunity to showcase the activities of the YPN network, allowing students and professionals in the civil engineering field to learn more about the organization and its initiatives, as well as to attract new members interested in joining the network.



- **Name:** 5th IAHR Young Professionals Congress Online.
- **Date:** November 27-29, 2024
- **Objectives:**
 - To present research on hydrogeochemistry and groundwater quality.
 - To share knowledge and foster collaboration among young professionals in the field of hydraulic and environmental engineering.

- **Description:**

YPN Venezuela member Lic. Ana Vilchez participated in the 5th IAHR Young Professionals Congress Online, where she presented her research paper titled **"HYDROGEOCHEMICAL AND GROUNDWATER QUALITY MAP OF MARGARITA ISLAND, VENEZUELA"**, alongside Prof. Dr. Ramón Montero. The presentation focused on the groundwater quality and hydrogeochemical mapping of Margarita Island, Venezuela, providing valuable insights into the region's water resources and environmental conditions.



- **Name:** Interactive Webinar "Fluid Conversations" - " Managing water, an urban challenge".
- **Date:** Tuesday, November 12, 2024.
- **Venue:** Online
 - **Objectives:** Discuss and address the challenges of water management in urban areas.
- **Description:** A session titled **"Gestionando el agua: un reto urbano"** led by M.Sc. Nicola Ceci, focusing on urban water management challenges. Organized by the Venezuela Young Professionals Network (IAHR YPN) and the Sociedad Venezolana de Ingeniería Hidráulica,



- **Name:** Guárico Irrigation System Forum | Series: From the Venezuela of progress to the possible Venezuela - The Academy visits Calabozo.
- **Date:** Tuesday, February 20, 2024.
- **Venue:** Central University of Venezuela (UCV).
 - **Objectives:** Discuss the Guárico irrigation system and its significance in the context of Venezuela's progress and possibilities.
- **Description:** A forum that brings together academia, local organizations, and civil engineering professionals (*Civil en Terreno*) to explore opportunities and advancements in irrigation and development in the region of Calabozo.



Partnerships and collaboration

Partnerships

Collaboration with other YPNs, associations or organizations

Webinar: The Role of Hydraulic Modelling in the Design and Safety of Hydroelectric Powerplants

Organized in collaboration with YPN Portugal and Venezuela. To explore the role of hydraulic modeling in enhancing the design and ensuring the safety of hydroelectric powerplants.

The Role of Hydraulic Modelling in the Design and Safety of Hydroelectric Powerplants



Prof. Arturo Marcano
 Hydraulic Consultant, Edelca



Emilio Martinez
 Civil engineer, MSc, Edelca



Dr. Sílvia Amaral
 Assistant Researcher, LNEC



Antônio Muralha
 PhD Candidate LNEC



Lourenço Mendes
 Assistant Researcher, LNEC

Moderators:

PhD candidate, Solange Mendes
 PhD, Ingrid Silva



DAY 1 - 18/6/2024 - 12PM (GMT-4)

DAY 2 - 19/6/2024 - 12PM (GMT-4)

Day 1:

- Lower Caroni Hydroelectric Development: a Modelling Case Study - **Arturo Marcano**.
- The role of physical modelling in studying large hydraulic structures and deepening phenomenological knowledge in scientific studies - **Sílvia Amaral + Antônio Muralha**.

Day 2:

- Integrating physical and CFD models to study large hydraulic structures at LNEC - **Lourenço Mendes**
- Contribution of Hydraulic Modeling to the Dam Safety Program of the Caroni River Hydropower System – 2010s - **Emilio Martínez**.



Portugal
 Young
 Professionals
 Network



Venezuela
 Young
 Professionals
 Network

Participation in the organization of Latin American Congress of Hydraulics

The YPN actively participated in organizing events for young professionals at the Latin American Congress of Hydraulics. The program spanned three days and focused on professional development and technical insights. The three events were:

1. **Conference: Roles and Perspectives in Hydraulic Engineering and Hydrology - Keys to a Successful Career**
 - **Speaker:** José Manuel Adriasola Velasco (AIDH Education and Professional Development Committee)
 - Focused on career development strategies and insights for emerging engineers and hydrologists.

2. Conference: Recommendations on How to Write a Good Scientific Article

- **Speaker:** Dr. Fabián Bombardelli (Chief Editor of *Ribgua Magazine*)
- Provided practical advice on writing and publishing impactful scientific articles.

3. Conference: Challenge Your Models: The Importance of Knowledge Mobilization for Emerging Researchers and Professionals

- **Speaker:** Inés Sánchez Rodríguez (University of Saskatchewan)
- Discussed the significance of knowledge sharing and innovative approaches in hydraulic and hydrological modeling.



3rd Edition BEING AN ENGINEER Forum

- **Date:** Monday, 28 October 2024.
- **Venue:** Auditorium of the Faculty of Engineering, Central University of Venezuela. (UCV).
 - **Objectives:** Celebrate Engineer's Day and explore the future of engineering with special guests.
- **Description:** This forum, held on Engineer's Day, was organized by the Global Initiative Engineering of the Future (IMIF) and supported by multiple organizations, including YPN Venezuela. The event provided an opportunity to delve into the world of engineering with insights from prominent figures and special guests.

Communication channels

Twitter | @YPNVenezuela

Instagram | @ypnvenezuela

Linked In | <https://www.linkedin.com/company/iahr-ypn-venezuela>

Website | <https://www.iahr.org/index/committe/77>

Youtube channel | https://www.youtube.com/channel/UC3r7l98XZCecdA_1smVjr_Q



International Association
for Hydro-Environment
Engineering and Research
Hosted by,
Spain Water and IWHR, China



Young
Professionals
Network
Hosted by
Spain Water and IWHR, China

IAHR Young Professionals Networks (YPNs) ensure that new generations of future hydroenvironment professionals and researchers have the opportunity to engage in IAHR activities, network and connect with peers and senior IAHR members, receive mentoring and support, and get access to the latest knowledge, information and know-how in the early stage of their careers. YPN members represent the backbone of the future IAHR and play an important role within the association through their activities and initiatives.

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