

IAHR Name... 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 School of Engineering and Built Environment.

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

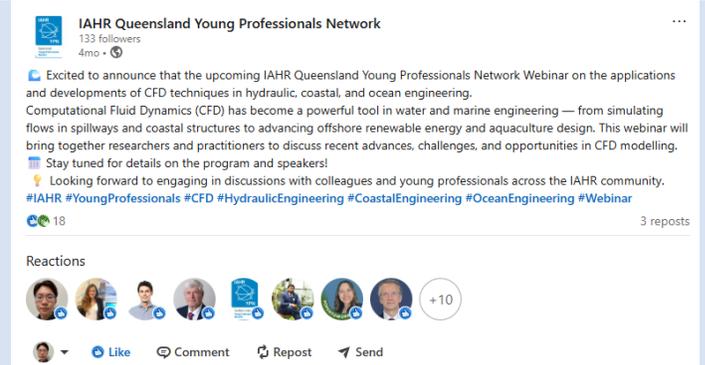
Since our YPN was formed just in late 2020, our main objective was still to promote the group by organizing a few networking events.

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

Building on the goals set for 2025, in 2026 we will continue to 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:** IAHR QLD YPN Webinar on CFD in hydraulic, coastal and ocean engineering
- **Date:** Sep 29, 2025
- **Venue:** Online Webinar
- **Objectives:** Sharing knowledge of CFD with students and early-career professionals in hydraulics-related engineering fields.
- **Description:** Computational Fluid Dynamics (CFD) has become a vital tool in hydraulic, coastal, and ocean engineering, enabling detailed investigation of complex flow phenomena that are challenging to capture experimentally. IAHR Queensland Young Professionals Network is organising a webinar to introduce the fundamental principles of CFD and highlight its practical applications and developments in water-related engineering problems. Examples include applications in spillways, coastal wave transformation, and offshore structures such as breakwaters, aquaculture cages, and renewable energy devices. Coupled with experiments and field data, CFD enhances predictions of hydraulic performance, structural safety, and environmental impacts. The webinar will also address current modelling



challenges and explore future opportunities such as integration with artificial intelligence and large-scale monitoring, offering insights into innovative and sustainable solutions for water and marine engineering.

- **Name:** GC Coastal Oceanography Hackdays
- **Date:** Nov 27-28, 2025
- **Venue:** Online webinar
- **Objectives:** IAHR encourages students and young professionals to actively participate in the workshop to share and exchange professional knowledge.
- **Description:** Griffith University and Nortek are excited to announce our upcoming 2-day event series in the Gold Coast, dedicated to advancing oceanographic data analysis and collaboration within our research community. IAHR actively encourages students and young professionals to actively participate in the workshop to share and exchange professional knowledge.



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Griffith University and Nortek are excited to announce our upcoming 2-day event series in the Gold Coast, dedicated to advancing oceanographic data analysis and collaboration within our research community. Do you use ADCPs or other ...more



GC Coastal Oceanography Hackdays

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Partnerships and collaboration

Partnerships

School of Engineering and Built Environment, Griffith University
Department of Mechanical and Structural Engineering and Materials Science, University of Stavanger

Collaboration with other YPNs, associations or organisations

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.



International Association
for Hydro-Environment
Engineering and Research

Hosted by
Spain Water and IWHR, China



Young
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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>