

## Fee & Enrollment

- (1) The fee structure:
  - Course fee: USD500.00
  - Accommodation, meals, local transportation expenses: USD700.00
- (2) Offering reduced registration fee 10% off for all IAHR members.
- (3) The plan is to recruit 80 to 100 students.
- (4) If you need financial assistance, you may
  - a. Apply for a scholarship from your supervisor, school or country;
  - b. Apply for funding from CTGU.

## Registration

- (1) Please visit the website: <https://hee.ctgu.edu.cn/info/1264/40802.htm>
- (2) Download and fill out the registration form.
- (3) Send the registration form to the following email addresses.
  - liulian@ctgu.edu.cn
  - zhou\_jianfu@ctgu.edu.cn
  - zhoujianfu2024@outlook.com

Application deadline  
July 31st, 2025



三峡大学

CHINA THREE GORGES UNIVERSITY



International Association  
for Hydro-Environment  
Engineering and Research

Hosted by  
Spain Water and IWHR, China

## Course: Advanced Hydraulic Engineering (AHE)

Jointly Organized by International Association for  
Hydro-Environment Engineering and  
Research and China Three Gorges University





The "Course: Advanced Hydraulic Engineering (AHE)" is an international 11days study program designed to provide advanced knowledge and skills for students in the fields of civil engineering and hydraulic engineering worldwide. The course will be held at China Three Gorges University (CTGU) in Yichang, Hubei Province, China, the world capital of hydropower engineering, from August 10th to August 20th 2025. The water conservancy engineering discipline of CTGU is at the forefront globally and played a significant role in the construction of the world's largest hydropower project, the Three Gorges Dam – a world–class landmark water conservancy project.

Program Highlights

- (1) Lectures are delivered by leading hydraulic engineering experts from all over the world, sharing their rich theoretical knowledge and practical experience.
- (2) The program covers hydrology, water resources management, hydraulic engineering design, environmental impact assessment, digital twin river etc., and emphasizes the combination of theory and practice.
- (3) The program includes study visits to nearby renowned key water conservancy projects, such as the Three Gorges Dam and Gezhouba Dam, where participants will learn acquire in–depth technical knowledge about these projects and discuss the engineering challenges that needed to be overcome.
- (4) The program is designed to allow ample opportunities for teacher–student interaction and exchange between students to promote international cooperation and friendship.
- (5) Students who complete the course and pass the assessment will be awarded a certificate of completion jointly issued by CTGU and IAHR.



**Prof. Martijn Booij:** Associate Professor in the Department of Water Engineering and Management at the University of Twente, the Netherlands. His research focuses on catchment hydrology, hydrological model evaluation, and the impacts of environmental change on water resources.



**Prof. Fabián A. Bombardelli:** Editor of Journal of Hydraulic Engineering, University of California, Davis.



**Prof. Mohamed S. Ghidaoui:** Named Chinese Estates Professor of Engineering, Chair Professor at the Hong Kong University of Science and Technology. Vice President of the International Association for Hydro–Environment Engineering and Research (IAHR).



**Prof. Yan Huang:** President of China Three Gorges University. President of the Flood Assessment and Dam Safety Committee of the International Commission on Large Dams.



**Prof. Joseph Lee:** President of Macao University of Science and Technology President of the International Association for Hydro–Environment Engineering and Research (IAHR).



**Prof. Vladimir Nikora:** Fellow of the Royal Academy of Engineering and Royal Society of Edinburgh, Chair of the Fluid Mechanics Technical Committee of IAHR, Chair Professor of Environmental Fluid Mechanics, School of Engineering, University of Aberdeen, UK



**Prof. Ana Maria Da Silva:** Department Head, Queen's University, Canada. Vice President of the International Association for Hydro–Environment Engineering and Research (IAHR).



Course Schedule

Date	Time	Event		Venue
August 10 <sup>th</sup>	Full day	Registration & check in		CTGU
August 11 <sup>th</sup> –16 <sup>th</sup>	9:00–12:00 AM 2:00–5:00 PM	Courses	Numerical methods for Computational Hydraulics and Fluid Mechanics	CTGU
			Hydrological Modelling and Environmental Change Impacts.	
			Conservation Laws of Mass, Momentum and Energy in Hydraulics	
			Digital Twin River – technology and applications	
			Turbulent buoyant jets – and its environmental applications	
			Turbulence in open channel flows	
			Aspects of River Morphology and Morphodynamics: Bed and Plan Forms in Rivers and Streams	
August 17 <sup>th</sup>	Whole day	Free time		
August 18 <sup>th</sup> –19 <sup>th</sup>	Full day	Visit the Three Gorges Dam, Gezhouba Dam and three hydropower plants along the Qingjiang River Basin		Yichang City
August 20 <sup>th</sup>	Full day	End		Return home