

Fee & Enrollment

(1) 1500.00 USD person, including course fee, field trip fee, accommodation, catering expenses, insurance etc. Transportation and visa fee shall be borne by the student oneself.

(2) Offering reduced registration fee 10% off for all IAHR members.

(3) The plan is to recruit 30 to 40 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

Please take three steps to make your 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:

zhou_jianfu@ctgu.edu.cn or zhoujianfu2024@outlook.com

Application deadline

May 31th, 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 14–day 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 23th 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. 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. Fabi   n A. Bombardelli:
Editor of Journal of Hydraulic Engineering, University of California, Davis.



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).



Prof. Zoran Vojinovic:
Associate Professor of Urban Water Systems at the Water Supply, Sanitation and Environmental Engineering department at IHE Delft.



Course Schedule

Date	Time	Event		Venue
August 10 th	Full day	Registration & check in		CTGU
August 11 th -16 th	9:00-12:00 AM 2:00-5:00 PM	Courses	Numerical methods for Computational Hydraulics and Fluid Mechanics.	CTGU
			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 th	Whole day	Free time		
August 18 th	Full day	Visit the Three Gorges Dam, the world's largest water conservancy project		Yichang City
August 19 th	Full day	Visit Gezhouba Dam, Yanjiang Avenue and Finless Dolphin Square to experience the Great protection of the Yangtze River in China		Yichang City
August 20 th	Full day	Experience G348, the most beautiful highway for geological science popularization in China (between two DAMS and one gorge section)		Yichang City
August 21 th	Full day	Experience the first-level tributary of the Yangtze River - Baali Qingjiang Gallery and Geheyan Hydropower Station		Yichang City
August 22 th	Full day	Visit the famous artificial fresh water lake in Asia - Weishui reservoir		Yichang City
August 23 th	Full day	End		Return home