



**ICOLD-CIGB 2025** | 28<sup>th</sup> ICOLD Congress  
93<sup>rd</sup> Annual Meeting  
International Commission on Large Dams (ICOLD)  
16<sup>th</sup>-23<sup>rd</sup> May, 2025 | Chengdu, P. R. China



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16<sup>th</sup>-23<sup>rd</sup> May, 2025 | Chengdu, P. R. China

# 28<sup>TH</sup> ICOLD CONGRESS & 93<sup>RD</sup> ANNUAL MEETING

CHENGDU, 16<sup>th</sup>-23<sup>rd</sup> MAY 2025

## FINAL BULLETIN

### ORGANIZED BY

Ministry of Water Resources of the People's Republic of China  
The People's Government of Sichuan Province  
International Commission on Large Dams (ICOLD)

### HOSTED BY

Chinese National Committee on Large Dams (CHINCOLD)

### SUPPORTED BY

National Energy Administration  
Ministry of Science and Technology of the People's Republic of China  
China Association for Science and Technology  
The People's Government of Chengdu Municipality

[www.icold-cigb2025.com](http://www.icold-cigb2025.com)

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## ORGANIZED BY

- Ministry of Water Resources of the People's Republic of China
- The People's Government of Sichuan Province
- International Commission on Large Dams (ICOLD)



## SUPPORTED BY

- National Energy Administration
- Ministry of Science and Technology of the People's Republic of China
- China Association for Science and Technology
- The People's Government of Chengdu Municipality



## HOSTED BY

- Chinese National Committee on Large Dams (CHINCOLD)

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- China Energy Engineering Co., Ltd.
- China Huaneng Group Co., Ltd.
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- Yalong River Hydropower Development Co., Ltd.
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- Guangxi Datengxia Gorge Water Conservancy Development Co., Ltd.
- Sinohydro Bureau 9 Co., Ltd.



Li Guoying  
Chairman of Organizing Committee  
Minister of MWR, PRC

Dear ICOLD members, ladies and gentlemen,

The 28<sup>th</sup> ICOLD Congress & 93<sup>rd</sup> Annual Meeting will take place from May 16<sup>th</sup> to 23<sup>rd</sup>, 2025, in Chengdu, China. On behalf of the organizing committee and the Ministry of Water Resources of the People's Republic of China, I sincerely invite colleagues and organizations from the international dam industry to participate in this academic event with the theme of "Common Challenges, Shared Future, Better Dams", to jointly promote scientific innovation, technological progress and high-quality development of the dam industry.

Reservoirs and dams are critical foundation for water security. They buttress flood control and drought relief, water resources regulation and storage, water ecosystems and environment restoration, clean energy supply, and climate change actions. Guided by China's central water governance principles of prioritizing water conservation, balancing spatial distribution, taking systematic approaches, and promoting government-market synergy, the Ministry of Water Resources of the People's Republic of China attaches great importance to the construction and operation management of reservoirs and dams. Their roles are indispensable in the basin-scale flood control engineering systems, the national water network and the ecological restoration in rivers and lakes. Therefore, China will continue to improve the scientific construction, efficient operation, intelligent management, and safety protection of reservoirs and dams so that they can generate comprehensive economic, social, ecological, and safety benefits.

The Ministry of Water Resources of the People's Republic of China remains committed to our international partners. By sharing experiences and success stories in reservoirs and dams construction and

operation, we will jointly contribute to safer, more ecologically-beneficial, and smarter reservoirs and dams, and contribute to the water-related goals under the UN 2030 Agenda for Sustainable Development.

The Congress in Chengdu promises an unforgettable memory to each delegate. You will not only have the opportunity to join fascinating tours, including the 2280-year-old Dujiangyan and the world's mega-project Three Gorges, and also be indulged in the rich history and unique culture in Chengdu.

We look forward to meeting you in Chengdu!

Li Guoying

Chair, Organizing Committee of 28<sup>th</sup> ICOLD Congress & 93<sup>rd</sup> Annual Meeting  
Minister, Ministry of Water Resources, People's Republic of China

## INVITATION FROM MINISTER, MWR, CHINA



Michel Lino  
ICOLD President

Dear colleagues and friends of ICOLD,

On behalf of the International Commission on Large Dams (ICOLD), it's my great honor to invite esteemed delegates from 106 National Committees of ICOLD, and specialists and experts working in the field of dams and reservoirs as well as their accompanying persons, to the 28<sup>th</sup> ICOLD World Congress in combination with the 93<sup>rd</sup> ICOLD Annual Meeting, to be held 16<sup>th</sup> – 23<sup>rd</sup> May 2025, in Chengdu, Sichuan Province of China.

ICOLD Congress is the most professional and influential academic conference in the international dam society, with the purpose of advocating the international community to work together to strengthen multilateral cooperation and exchanges, and jointly promoting "Better dams for a better world". Chengdu congress will provide diverse opportunities to promote the international technical cooperation in the field of dams and reservoirs to a new level, and also play a critical role in promoting dam technology in the world. With all my confidence, it will be a grand meeting for participants from all member countries to sum up the past and look forward to the future.

I believe that under the strong organization of LOC, the Chengdu congress will provide an efficient platform for participants to conduct in-depth exchanges, experience sharing, business negotiations, and project cooperation. It's also a precious opportunity for all participants to be involved in the ICOLD family, and to witness and experience the glorious history and the modern development of China.

It's my privilege to encourage all the members of ICOLD family to attend the 28<sup>th</sup> ICOLD congress and 93<sup>rd</sup> annual meeting in Chengdu, May 2025. I am looking forward to everyone's presence to the congress in person and in good health.

Yours sincerely,

Michel Lino

President, International Commission on Large Dams (ICOLD)

## INVITATION FROM ICOLD PRESIDENT



Dr. Jiao Yong  
CHINCOLD President

Dear ICOLD members, colleagues, ladies and gentlemen,

It is a great honor for me to invite delegates from the member countries and non-member countries of ICOLD to attend the 28<sup>th</sup> ICOLD Congress & 93<sup>rd</sup> Annual Meeting in Chengdu, Sichuan Province of China on behalf of the Chinese National Committee on Large Dams (CHINCOLD). The event will take place from May 16<sup>th</sup> to 23<sup>rd</sup>, 2025.

After the successful ICOLD Congress in Beijing in 2000, CHINCOLD has a pleasure to organize the ICOLD Congress & Annual Meeting again in Chengdu in 2025. It will be a great moment because we are now facing the increasing challenges like water shortage, flooding, food security, and the impacts induced by climate change. We need gathering again to strengthen the international collaboration for the common challenges, shared Future, and better dams. Over the 25 years from 2000 to 2025, apart from keeping the record as the country owning the largest number of dams and reservoirs in the world, China has constructed many new super-high dams (rockfill, concrete, RCC, CMD) with high quality and engineering innovation. These dams and reservoirs, with pumped power stations and water transfer projects, will be playing a fundamental important role for water, energy, and grain security in the process of Chinese modernization. All these projects have been benefited from the international cooperation in the domain of water engineering and now are available for all delegates to have an exciting technical visit.

I am for sure that the visit to Chengdu, the capital city of Sichuan Province with a long history of over 2,300 years, will be a wonderful experience. Chengdu combines tradition and fashion and has many historical and cultural landscapes. In particular, it is the hometown of

giant pandas where you can have a chance to closely visit the lovely creatures. Dujiangyan, a World Cultural and Natural Heritage of irrigation project, is also located in Chengdu. It has provided safe water to millions of people and irrigation for over 2,200 years and makes Chengdu known as "The Land of Abundance". There are also many famous beauty spots for prospective delegates to enjoy social activities and sightseeing.

Chengdu is also a dynamic and modern municipality with complete infrastructures. Delegates can enjoy convenient transportation, modern conference center with various kinds of meeting rooms and facilities, comfortable accommodation and excellent surroundings, which will make you an unforgettable trip.

CHINCOLD will try the best to organize conferences, meetings and other activities, and to provide high quality conditions for visits, social programs and tours.

We would like to extend a warm welcome to all colleagues from various countries to Chengdu and shall be very glad to meet you at this event.

Dr. Jiao Yong

President of the Chinese National Committee on  
Large Dams (CHINCOLD)

## INVITATION FROM CHINCOLD PRESIDENT





## Chairperson of Organizing Committee



**Li Guoying**

Minister, MWR of the People's Republic of China

## Vice Chairperson of Organizing Committee



**Li Liangsheng**

Vice Minister, MWR



**Hu Yun**

Vice Governor of Sichuan Province



**Liu Weiping**

Chairman of China Three Gorges Corporation



**Jiao Yong**

President of CHINCOLD

## Committee Members

### **Fu Xiaofeng**

Deputy Director General of Department of Frontier Technology, Ministry of Science and Technology

### **He Wei**

Deputy Director General of Department of International Affairs (Hong Kong, Macao, and Taiwan Exchange Office of China Association for Science and Technology)

### **Li Chuangjun**

Director General of Department of New and Renewable Energy, National Energy Administration

### **Tang Liang**

Director General of General Office, MWR

### **Zhang Xiangwei**

Director General of Department of Planning and Programming, MWR

### **Shang Quanmin**

Director General of Department of Water Project Construction Management, MWR

### **Zhang Wenjie**

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### **Lu Shengfang**

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### **Xu Wenhai**

Director General of Department of Supervision, MWR

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Director General of Department of Flood and Drought Disaster Prevention, MWR

### **Ruan Limin**

Director General of Department of Three Gorges Project Management, MWR

### **Li Yong**

Director General of Department of South-to-North Water Diversion Project Management, MWR

### **Jin Hai**

Director General of Department of International Cooperation, Science and Technology, MWR

### **Li Junchen**

Deputy Secretary General of the People's Government of Sichuan Province

### **Dong Li**

Director General of Sichuan Provincial Water Resources Department

### **Wu Hao**

Deputy Mayor of the People's Government of Chengdu Municipality

### **Peng Jing**

President of China Institute of Water Resources and Hydropower Research

### **Wang Xiaogang**

Vice President and Secretary General of Chinese National Committee on Large Dams

### **Li Ming**

President of MWR General Institute of Water Resources and Hydropower Planning and Design, China

### **Li Sheng**

President of China Renewable Energy Engineering Institute



**Wang Xinwei**  
Vice General Manager of China Three Gorges Corporation

**Ji Mingbin**  
Vice General Manager of State Grid Corporation of China

**Wang Xiaojun**  
Vice General Manager of Power Construction Corporation of China

**Hao Jinyu**  
Vice General Manager of China Huaneng Group Co., Ltd.

**Qu Bo**  
Vice General Manager of China Datang Co., Ltd.

**Zhao Xiaodong**  
Vice General Manager of China Huadian Co., Ltd.

**Chen Haibin**  
Vice General Manager of State Power Investment Co., Ltd.

**Fu Zhenbang**  
Vice General Manager of CHN Energy Investment Group

**He Jiansheng**  
General Counsel, Chief Compliance Officer and Chairman of Board of Supervisors of China Energy Engineering Co., Ltd.

**Sun Chang'an**  
Director of Xiaolangdi Multipurpose Dam Project Management Center, MWR

**Sun Wenliang**  
General Manager of Yalong River Hydropower Development Co., Ltd.

**Zhou Yerong**  
General Manager of Dadu River Hydropower Development Co., Ltd.

**Liu Chao**  
Vice President of Sichuan University



**Danjiangkou dam**

## 93<sup>rd</sup> Annual Meeting 16<sup>th</sup>-20<sup>th</sup>

## 28<sup>th</sup> ICOLD Congress 21<sup>st</sup>-23<sup>rd</sup>

Day	Events		
	Morning	Afternoon	Evening
13 <sup>th</sup> -15 <sup>th</sup> , May	Pre-Study Tour		
16 <sup>th</sup> , May (Friday)	Meeting of ICOLD Board Short Courses Registration	Meeting of TC Chairpersons Short Courses City Tour Registration	
17 <sup>th</sup> , May (Saturday)	ICOLD TC Workshops Registration City Tour	ICOLD TC Workshops Registration City Tour	
18 <sup>th</sup> , May (Sunday)	ICOLD TC Meetings Workshops Registration	ICOLD TC Meetings Young Professionals' Forum Regional Club Meetings Workshops French-speaking Committee Meeting Registration	Young Professionals' Night
19 <sup>th</sup> , May (Monday)	International Symposium Exhibition Opening	International Symposium Press Conference Congress questions officers meeting Exhibition	Welcome Reception
20 <sup>th</sup> , May (Tuesday)	Technical Visit General Assembly Workshops Exhibition	Technical Visit General Assembly Workshops Exhibition	Cultural Event
21 <sup>st</sup> , May (Wednesday)	28th Congress Opening Ceremony Question 108: Dams and reservoirs for climate change adaptation Question 109: Dams and levees fit for the future Exhibition	Question 108: Dams and reservoirs for climate change adaptation Question 109: Dams and levees fit for the future Exhibition	
22 <sup>nd</sup> , May (Thursday)	Question 108: Dams and reservoirs for climate change adaptation Question 109: Dams and levees fit for the future Exhibition	Question 110: Safety of dams and levees facing extreme hydrological events Question 111: Earthquake performance and safety of dams Exhibition	
23 <sup>rd</sup> , May (Friday)	Question 110: Safety of dams and levees facing extreme hydrological events Question 111: Earthquake performance and safety of dams Exhibition	Question 110: Safety of dams and levees facing extreme hydrological events Question 111: Earthquake performance and safety of dams Closing Ceremony	Farewell Dinner
24 <sup>th</sup> -27 <sup>th</sup> , May	Post-Study Tour		



The International Commission on Large Dams (ICOLD) was founded in 1928, the central office is located in Paris, to provide a forum for discussion and for the exchange of knowledge and experience in dam engineering for engineers and others concerned with the development of water resources. Its objectives are to encourage improvements in dam engineering in all its aspects, and in all phases of the planning, design, construction and operation of dams and associated works. With a present total of 106 member countries, ICOLD leads the profession in ensuring that dams are built and operated safely, efficiently, economically, and with a minimum environmental impact. For 40 years, ICOLD has been particularly concerned to enhance the profession's awareness of the social and environmental aspects of dams and reservoirs, and to broadening its perspective in such a way that these aspects receive the same attention and conscientious treatment as the technical aspects.

## ICOLD Board of Directors



**President**  
**Michel LINO** France  
lino@isl.fr 2022-2025



**Secretary General**  
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2024-2027



**106 member countries**



To date, ICOLD includes 29 Technical Committees working on current technical issues related to water resource development and management. Each Technical Committee is given a mandate by the General Assembly and works for 3 to 4 years. Its work is published in the form of a «Technical Bulletin». Technical Bulletins have been published and are therefore available for purchase on the ICOLD website. [www.icold-cigb.org](http://www.icold-cigb.org)

**A**

COMPUTATIONAL ASPECTS OF ANALYSIS AND DESIGN OF DAMS (2023-25)

**B**

SEISMIC ASPECTS OF DAM DESIGN (2023-26)

**C**

HYDRAULICS FOR DAMS (2021-25)

**D**

CONCRETE DAMS (2024-27)

**E**

EMBANKMENT DAMS (2023-27)

**F**

ENGINEERING ACTIVITIES WITH THE PLANNING PROCESS FOR WATER RESOURCES PROJECTS (2014-25)

**G**

ENVIRONMENT (2020-25)

**H**

DAM SAFETY (2024-28)

**HWS**

HISTORICAL WATER STRUCTURE (Water Heritage) (2024-27)

**I**

PUBLIC SAFETY AROUND DAMS (2022-25)

**IC**

ILDE (INTERNATIONAL LIST OF DAM EXPERTS) (AD HOC) (2024 - )

**J**

SEDIMENTATION OF RESERVOIRS (2023-26)

**K**

INTEGRATED OPERATION OF HYDROPOWER STATIONS AND RESERVOIRS (2023-27)

**L**

TAILINGS DAMS & WASTE LAGOONS (2023-27)

**LE**

LEVEES (2024-25)

**M**

OPERATION, MAINTENANCE AND REHABILITATION OF DAMS (2023-26)

**N**

PUBLIC AWARENESS AND EDUCATION (2024-25)

**O**

WORLD REGISTER OF DAMS AND DOCUMENTATION (2024-27)

**P**

CEMENTED MATERIAL DAMS (2020-25)

**Q**

DAM SURVEILLANCE (2024-25)

**RE**

RESETTLEMENT DUE TO RESERVOIRS (2021-2024)

**S**

FLOOD EVALUATION AND DAM SAFETY (2024-26)

**T**

PROSPECTIVE AND NEW CHALLENGES FOR DAMS AND RESERVOIRS IN THE 21<sup>st</sup> CENTURY (2023-27) (AD HOC Committee)

**TRS**

TROPICAL RESIDUAL SOILS (2023-26)

**U**

DAMS AND RIVER BASIN MANAGEMENT (2024-27)

**V**

HYDROMECHANICAL EQUIPMENT (2023-26)

**Y**

CLIMATE CHANGE (2024-25)

**Z**

CAPACITY BUILDING AND DAMS (2024-28)

**ZA1**

WORLD DECLARATION

**ZA2**

GENDER DIVERSITY





## ICOLD Technical Committees Meetings and Workshops

On Saturday, 17<sup>th</sup> May, the **ICOLD Technical Committees Workshops** will be held. They aim to present and discuss the content of new work for technical committees in their start-up phase or to present the results of technical committees at the end of their mission (typically the publication of a Technical Bulletin). The list of workshops has been established below in coordination with the chairs of the technical committees. Detailed information on <https://www.icold-cigb2025.com/>

### List of ICOLD Technical Committees Workshops

Theme	Duration	Organizer
Workshop on Advanced Numerical Modeling Applied to Dam Engineering	Half day	TC on Computational Aspects of Analysis and Design of Dams
Workshop on Seismic Analysis Methods for Embankment Dams	Half day	TC on Seismic Aspects of Dam Design
Workshop on Chutes, Stilling Basins, Upgrading and Surveillance of Spillways	Half day	TC on Hydraulics for Dams
Workshop on Compaction of Earthfill in Embankment Dams.	Half day	TC on Embankment Dams
Workshop on Experience and Practice of CFRD: a 40 years review	Full day	TC on Embankment Dams, <b>Chinese Society for Hydropower Engineering, China Huadian JinSha River Upstream Hydropower Development Co., Ltd.</b>
Workshop on Progress of the Bulletin on Dam Safety Risk Assessment and the Bulletin on Dam Safety Guideline	Half day	TC on Dam Safety
Workshop on Analysis and Simulation of Dam Failure Flood	Full day	TC on Dam Safety, <b>Nanjing Hydraulic Research Institute</b>
Workshop on Reliability based Preservation Concept and Challenges for Historical Dams	Half day	TC on Historical Water Structure (Water Heritage)
Workshop on Cascade Hydropower Stations and Reservoirs Forecasting and Dispatching Technology and Its Application	Half day	TC on Integrated Operation of Hydropower Stations and Reservoirs
Workshop on Safety management of Tailing Dams	Full day	TC on Tailings Dams & Waste Lagoons, <b>Yellow River Laboratory (Henan), BGRIMM Technology Group CHINCOLD TC on Coal Ash Dams</b>

Theme	Duration	Organizer
Workshop on the Future Activities of the TC Levees	Full day	TC on Levees
Workshop on Operation, Maintenance and Rehabilitation of Dams	Full day	TC on Operation, Maintenance and Rehabilitation of Dams
Workshop on Public Awareness and Education Examples of Successful Communication Strategies	Half day	TC on Public Awareness and Education
Workshop on Cemented Material Dams	Full day	TC on Cemented Material Dams, <b>CHINCOLD TC on Cemented Material Dams</b>
Workshop on High-quality Development of Resettlement due to Reservoirs	Half day	TC on Resettlement due to Reservoirs
Workshop on Flood Evaluation and Smart Operation of Water Infrastructures	Full day	TC on Flood Evaluation and Dam Safety, <b>CHINCOLD TC on Committee of Intelligent Joint Operation and Risk Control Technology for Watershed Water Projects</b>
Workshop on Floating PV on Dam Reservoirs	Half day	TC on Perspective and New Challenges for Dams and Reservoirs in the 21st Century
Workshop on Experiences of Integrated Management of Dams and Basins, for Resiliency and Sustainable	Half day	TC on Dams and River Basin Management
Workshop on Hydro mechanical Equipment	Full day	TC on Hydromechanical Equipment
Workshop on After 15 Years of Contribution: What we learned together and what can we do next?	Half day	TC on Climate Change
Workshop on Capacity Building in ICOLD	Half day	TC on Capacity Building and Dams
Workshop on Charging Forward with Gender Diversity & Inclusion	Half day	TC on Gender Diversity and Inclusion
Workshop on Dam and Water Resources Management in the Context of Energy Transition	Half day	TC on Young Engineers, <b>Power Construction Corporation of China</b>

On Sunday, 18<sup>th</sup> May, the **ICOLD Technical Committees Meetings** will be held throughout the day (08:30 am to 06:00 pm). We have several rooms available for these meetings, which will be allocated in consultation with chairpersons, depending on the expected attendance.



## CHINCOLD Workshops

On Sunday, 18<sup>th</sup> May and Tuesday, 20<sup>th</sup> May, CHINCOLD, in connection with its member and other international organizations, will organize workshops related to topics concerned, such as dam safety under climate change, energy transition, pumped storage project, intelligent technology and etc.. The detailed information is as below. All participants are welcome to attend and contribute.

### 1 Workshop on constituting river ethics and building ecological dams

**Organizer:** China Institute of Water Resources and Hydropower Research  
Xiaolangdi Multipurpose Dam Project Management Center, Ministry of Water Resources

**Date and Duration:** Half day, afternoon on 18<sup>th</sup> May  
In view of the global climate change and the impact of human activities, water resources protection and river health has become a daunting challenge for human beings. China, under such circumstances, has proactively put forward river ethics, a new concept which reflects and renovates human relations with rivers based on its water resources management practices in the past. Guided by the theories and practices of river ethics, this workshop will discuss the ecological functions of water infrastructures from sediment regulation, ecological corridor restoration, habitat protection, as well as wetland conservation, to display the water infrastructure functions of water resources development and ecological protection. We believe such thinking and practices for ecological protection should be integrated into the entire process of dams from planning, designing, construction, management to operation, to make reservoir dams more ecologically friendly.

**Contact:** Email: emilywangiwhr@foxmail.com  
Phone/Mobile: 00-86-010-68781650

### 2 Workshop on reservoir dams and novel power system

**Organizer:** State Grid Corporation of China  
China Southern Power Grid Co.,Ltd.  
China Huadian Co.,Ltd.

**Date and Duration:** Full day on 18<sup>th</sup> May  
Topic: Build dams for power generation and green future——Explore new paths for novel power system  
Focusing on the planning, design, construction, and modes of operation and management in the integrated development of reservoir dams and novel power systems, this workshop will discuss key technologies and development trends such as hybrid base planning of clean energy, complementary dispatching of hydro, wind, solar, energy storage banks and pumped storage, centralized monitor and control of regional energy, coordinated control, safety monitoring and management of hydropower and grid, intelligent pumped storage power stations, etc..Experience and achievements in the development and operation of novel power systems, hydropower and renewable energies in various countries are welcome to be shared.

**Contact:** Email: cuigang@sgepri.sgcc.com.cn  
Phone/Mobile: 00-86-13951651745

### 3 Workshop on hydro-wind-solar-PSH hybrid power base

**Organizer:** Yalong River Hydropower Development Co.,Ltd.  
China Renewable Energy Engineering Institute

**Date and Duration:** Half day, morning on 18<sup>th</sup> May  
In this workshop, the exchanges and discussions on key technologies and practices of hybrid power base development will be carried out. The main contents include precise evaluation and planning of resources, the spatial-time complementarity of renewable energies, energy storage technologies, optimal power dispatching of hybrid power base, operation and dispatching of power sources according to requirements of the power grid, etc..Global experts and engineers will exchange cases on these subjects, while the practical development experiences of Yalong River Hybrid Power Base will be shared. Moreover, the attendees will have the chance to discuss the importance and initiations of the hybrid power base with these experts.

**Contact:** Email: zhang\_yi@ylhdc.com.cn  
Phone/Mobile: 00-86-13880721072

### 4 Workshop on innovation and practice in dam engineering under complex geological conditions

**Organizer:** Sichuan Provincial Water Resources Department

**Date and Duration:** Half day, afternoon on 18<sup>th</sup> May  
Focusing on the engineering challenges of dam construction under complex geological conditions such as deep overburden layer, karst and high-intensity seismic zones, discussions in this workshop will cover the directional drilling technology in dam exploration under complex geological conditions, state-of-the-art technologies in deep underground engineering and the practices of new dam structures such as vertical reinforcement core wall for earth rock dam. Additionally, innovative processes and technologies in dam foundation exploration and treatment, new construction techniques will be shared.

**Contact:** Email: 9066983@qq.com  
Phone/Mobile: 00-86-028-86939706

### 5 Workshop on digital and intelligent technologies for dam design, construction and maintenance

**Organizer:** China Institute of Water Resources and Hydropower Research  
Dadu River Hydropower Development Co., Ltd.  
China Three Gorges Construction Engineering Corporation  
Power Construction Corporation of China  
Dam Safety Management Center of the Ministry of Water Resources  
Yellow River Guxian Water Conservancy Co., Ltd.  
International Hydropower Association

**Date and Duration:** Full day on 20<sup>th</sup> May  
To ensure the high-level safety and high-quality development of dams and align with advancements in modern information technologies such as artificial intelligence, big data, and cloud computing, this workshop will focus on the latest technologies in digital and intelligent design, smart construction, as well as intelligent operation and maintenance of reservoir dams. Key topics include intelligent dam design standards, construction techniques, self-diagnostic technologies, external monitoring methods, along with risk prediction and mitigation approaches. The goal is to enable comprehensive monitoring and perception, intelligent safety analysis and diagnostics, and precise risk prediction with feedback control throughout the entire lifecycle of dam construction and operation. Through exchange and discussion, the concepts, technologies, and practices of intelligent dam construction and maintenance will be promoted.

**Contact:** Email: zhaoyt@iwhr.com  
Phone/Mobile: 00-86-18501921170

### 6 Workshop on ancient dams and human civilization

**Organizer:** Zhejiang Provincial Department of Water Resources  
Sichuan Provincial Department of Water Resources  
National Water Museum of China  
China Institute of Water Resources and Hydropower Research  
Publicity and Education Center of the Ministry of Water Resources  
Hangzhou Liangzhu Archaeological Site Administrative District Management Committee

**Date and Duration:** Half day, afternoon on 20<sup>th</sup> May  
This workshop aims to trace the origin and development of dam projects through history from a global perspective, taking the dam system in Liangzhu Historical Site as an outstanding case study, discussions will be held to explore the comprehensive functions and technologies in ancient dam projects in the fields of flood control, transportation, and water diversion, so as to better understand the propelling role of water projects in the advancement of human civilizations.

**Contact:** Email: hxfsyl\_008@163.com  
Phone/Mobile: 00-86-0571-87826565

### 7 Workshop on the benefits of reservoirs and dams in regional economy

**Organizer:** China Three Gorges Corporation  
Changjiang River Scientific Research Institute  
China Renewable Energy Engineering Institute  
China Institute of Water Resources and Hydropower Research  
Changjiang Technology and Economy Society

**Date and Duration:** Half day, morning on 20<sup>th</sup> May  
This workshop will have in-depth discussions on the critical roles of reservoirs and dams in promoting the regional economy. The following aspects will be covered:

- generation benefits enhanced by cascade multi-reservoir dispatch;
- regional safety improvement through joint flood control of river basins;
- navigation efficiency increased by reservoirs and dams;
- regional economy boosted by resettlement of hydropower projects;
- ecological management strengthened by watershed reservoirs.

**Contact:** Email: liao\_leiqiong@ctg.com.cn  
Phone/Mobile: 00-86-18613222441

### 8 Workshop on dam design and risk management based on safety and resilience concept

**Organizer:** MWR General Institute of Water Resources and Hydropower Planning and Design (GIWP), China  
Nanjing Hydraulic Research Institute  
Yellow River Engineering Consulting Co., Ltd.  
China Water Resources Beifang Investigation, Design and Research Co., Ltd.

**Date and Duration:** Half day, morning on 20<sup>th</sup> May  
Extreme weather events and complex operating conditions caused are great challenges faced for reservoir dams in recent years. New concepts of dam resilience design and new technologies for dam safety risk prevention will be shared and discussed, including enhancing flood control capacity and emergency rescue for embankment dams, deformation control of high CFRDs, water and sand regulation of reservoirs, and so on. Additionally, smart management methods containing digital twin dam practices will be shared.

**Contact:** Email: yangcbchina@163.com  
Phone/Mobile: 00-86-18301288565



## 9 Workshop on development and prospect of pumped storage power stations

**Organizer:** Power China Beijing Engineering Co., Ltd.  
China Society for Hydropower Engineering  
International Hydropower Association

**Date and Duration:** Full day on 20<sup>th</sup> May

This workshop focuses on developing trends and new technologies for pumped storage power stations, including:

- The current status and future trends of pumped storage projects;
- New technologies of pumped storage stations, including manufacturing technologies of high-water-head and large-capacity generator-turbines, variable speed generator-turbines, reservoir seepage control technologies, TBM (Tunnel Boring Machine) application, intelligent construction technology, etc.
- The integrated development of traditional pumped storage with new energy-storage solutions.

**Contact:** Email: guy@bjy.powerchina.cn  
Phone/Mobile: 00-86-010-51977186

## 10 Workshop on termites control technologies

**Organizer:** Key Laboratory of Termite Control, MWR  
Xiaolangdi Multipurpose Dam Project Management Center  
Sichuan Provincial Water Resources Department

**Date and Duration:** Half day, afternoon on 20<sup>th</sup> May

This workshop focuses on the technologies of termite hazard inspection and monitoring, nest exploration, hazard control and safety guarantee of water projects. The new technologies and equipment for termite control in water projects will be released (manuals or videos), based on the workshop discussion.

**Contact:** Email: yanjun@iwhr.com  
Phone/Mobile: 00-86-13263198348

## 11 Workshop on challenges and countermeasures of reservoir sedimentation

**Organizer:** Yellow River Institute of Hydraulic Research  
International Research and Training Center and Erosion and Sedimentation  
China Communications Construction Company Dredging Group Co., Ltd.

**Date and Duration:** Half day, morning on 20<sup>th</sup> May

This workshop focuses on the challenges brought by reservoir sedimentation, and discusses the latest progress in reservoir sedimentation mechanism, detection technologies for sediment movement trends, sediment release measures, dredging and desilting technologies and equipment. Cases of reservoir desilting and sediment resource utilization in China and other countries also be shared to explore strategies for global reservoir siltation risks.

**Contact:** Email: 15538352232@163.com  
Phone/Mobile: 00-86-15538352232

## 12 Workshop on integrated water resources management and green hydropower development

**Organizer:** Global Water Partnership China (GWP China)  
China Institute of Water Resources and Hydropower Research  
China International Network on Small Hydro Power  
International Center on Small Hydro Power  
State Grid Sichuan Electric Power Company Electric Power Research Institute  
Nanjing Nari Water Resources and Hydropower Technology Co., Ltd.  
Power China Chengdu Engineering Co., Ltd.

**Date and Duration:** Half day, afternoon on 20<sup>th</sup> May

This workshop focuses on the better integration of Integrated Water Resources Management (IWRM) and hydropower development, especially the ecological security of rivers in water resource and hydropower development. The global experiences in water resources management and hydropower development are exchanged to initiate better ideas and explore more implementation ways to realize green and low-carbon development. Moreover, through this workshop, the more efficient and reasonable ways to deploy and utilize water resources can be inspired to boost the economy of countryside and promote river recovery. More ideas are welcome for green development in this workshop.

**Contact:** Email: zhangdaidi@126.com  
Phone/Mobile: 00-86-13810208028

## Question 108: Dams and reservoirs for climate change adaptation

1. Dams for Pumped Storage: specific features, design, examples of implementation
2. Off-river dams for water storage and flood protection
3. Offshore dams and tidal power plants
4. Dams for recharge of aquifers and other new concepts
5. Floating solar on dam reservoirs - opportunities and risks

### Question Officers

President

Vice-President

General Reporter

Secretary



**Jia Jinsheng**  
(China)



**Emma Hagner**  
(Sweden)



**Luc Deroo**  
(France)



**Wang Xinhuai**  
(China)

## Question 109: Dams and levees fit for the future

1. Management of an aging portfolio of dams in terms of operation, maintenance and rehabilitation, including risk-based approaches
2. Safety during construction and rehabilitation
3. Special case for small dams and levees
4. Impact of contracting practices on dam safety (e.g. private sector involvement, EPC contracts)
5. Increasingly difficult sites - dams and their new challenges
6. Need for global capacity building

### Question Officers

President

Vice-President

General Reporter

Secretary



**Jean-Pierre Tournier**  
(Canada)



**Danie Badenhorst**  
(South-Africa)



**Li Shuguang**  
(China)



**Xiao Te**  
(China)

## Question 110: Safety of dams and levees facing extreme hydrological events

1. Assessment of extreme events (e.g. floods, droughts, typhoons/hurricanes, glacial lake outburst floods) in the context of climate change, accounting for uncertainty
2. Assessment for the safety of structures for extreme floods; management options (e.g. increasing dam height, spillway capacity, reservoir operation)
3. Flood forecasting, hydraulic management of multiple projects within river systems
4. Reassessment of the flood data and mitigation e.g. fuse devices, overflow resistance, controlled breach formation, warning and evacuation, crisis and emergency management

### Question Officers

President

Vice-President

General Reporter

Secretary



**Lisa Bensasson**  
(Greece)



**Xu Zeping**  
(China)



**Enrique Cifres**  
(Spain)



**Wang Jinting**  
(China)

## Question 111: Earthquake performance and safety of dams

1. Static, seismic and post-seismic monitoring of dams
2. Feedback from earthquake failures, including tailings dams and levees
3. Importance of multiple features of earthquake hazard (e.g. ground shaking, surface fault movements, mass movements)
4. Seismic design and performance criteria for dam structure, reservoir rim and impacted area
5. Earthquake safety evaluation of all types of dams and safety-critical elements (e.g. spillways, low-level outlets)

### Question Officers

President

Vice-President

General Reporter

Secretary



**Martin Wieland**  
(Switzerland)



**Chen Guanfu**  
(China)



**Trevor Matuschka**  
(New Zealand)



**Wang Haibo**  
(China)

The symposium will be arranged by Chinese National Committee on Large Dams to accompany the congress. Its theme is: **Common Challenges, Shared Future, Better Dams**. With the focus on issues related to the safety, ecology and intelligence of dams, the construction, operation and intelligent maintenance of dams will be discussed. Global experience on safety, multifunctional development, ecological restoration, carbon reduction and intelligent maintenance of dams will be shared.

### TOPIC 1: Precautionary management of dams and river basin under climate change

Considering the changes in hydrological conditions due to climate change and the increasing frequency of extreme weather events, the following aspects related to safety of dams and river basin will be discussed:

- Evaluation of the flood control standards and improvement of structural design for reservoir dams
- Real-time hydrological monitoring and forecasting warning technologies
- New requirements and adjustment of operation and dispatching
- Risk assessment and emergency plan
- Innovation and state-of-the-art technologies for small dams and small reservoirs

### TOPIC 2: Multifunctional development of dams and reservoirs

Regarding the new requirements for reservoir dams, such as regional economic development and ecological environment improvement, the following aspects will be discussed:

- The ecological compensation of reservoir dams, including downstream river channel shaping and ecological restoration through reservoir dispatching
- The multifunction of downstream urban water supply, shipping, leisure tourism, and etc.
- The technologies for new functional changes and engineering renovations of built reservoirs and dams.
- Changes in operation and upgrading technologies for existing reservoir dams
- Decision tools and technological innovations for the multifunctional operation and dispatching

### TOPIC 3: Technologies for dam design and construction under complex (extreme) conditions

Focus on dam design and construction techniques under complex geological conditions, strong earthquake zones or high-altitude conditions, the following aspects will be discussed:

- The technologies for geological exploration, foundation or high slope treatment
- Research on dam materials
- Innovation in dam structure design
- Construction technologies and new equipment in complex conditions

### TOPIC 4: Digital technology applied in dams and digital river basins

Focus on the digital technology application in design, construction, operation and maintenance of dams, the following aspects will be discussed:

- Digital design technologies, including BIM design
- Intelligent construction control system and self-driven equipment
- Intelligent operation, detection, maintenance technologies
- Remote sensing prediction and forecasting of rainfall-flood, simulation of flood scenarios, and their application in intelligent dispatching of river basins
- Digital twin dam or river basin: applications and typical cases

### TOPIC 5: The role of dams in achieving the goal of reducing carbon dioxide emissions

Focus on the role of dams in energy transition and achieving the goal of reducing carbon dioxide emissions, case experience and study results sharing will be included with following aspects:

- Function of hydropower in new power systems
- The regulatory role of hydropower to wind/solar energy volatility
- Spatial time complementarity of different renewable energies
- Changes of reservoir dispatching modes and technological innovation
- Pumped Storage Power Stations and development prospect



Short courses will be given on the side-lines of the ICOLD Congress in Chengdu, providing technologies of BIM design, rock-filled concrete dam and Hydropower station dispatching based on rich practical experiences. Moreover, the hydrological research of mountain rivers will be shared. Most of themes are combined with site visits or laboratory visit to enhance the trainees' understanding of each course.

## COURSE FORMAT AND ORGANIZATIONAL ASPECTS

- The date: Friday 16<sup>th</sup> May 2025.
- The place: Chengdu Century City New International Convention and Exhibition Center.
- The number of trainees per course is limited to 40 persons to promote interaction.
- Language: English
- Course materials are provided in **hard copy**.
- **Training certificates** are given to trainees at the end of the session.

### Course No.1: BIM Design of reservoir dams

**Organizer:** Power Construction Corporation of China

**Duration:** Full day

This course offers introduction to the system architecture of HydroBIM focusing on pumped storage hydropower stations: systematic explanation from the planning, feasibility study, to construction drawing design stages. The training content specifically includes:

1. HydroBIM System: This includes the technical system, standard system, and system platform;
2. Introduction to the HydroBIM Design Platform: Based on the HydroBIM GIS+BIM collaborative design platform, taking pumped storage hydropower stations as an example, this section will cover the site planning and design of pumped storage hydropower stations, layout scheme design of project, design of the water conveyance system, and underground powerhouse design, as well as the generation of construction drawings from modeling, design reports, and CAE analysis.

**Price:** USD 100 VAT INC, and including fees of the lunch and course materials.



### Course No.2: Hydropower stations and reservoirs dispatching and control

**Organizer:** Three Gorges Cascade Dispatch and Communication Center  
Beijing IWHR Technology Co., Ltd.  
CSHE Cascade Dispatch and Control Technical Committee

**Duration:** Full day

This course offers training on technologies and system construction related to the dispatching and control of hydropower stations and reservoirs, aiming to provide professionals working at management agencies or power generation enterprises with knowledge of better remote centralized control and optimizing multi-objective dispatching to enhance efficiency and increase the level of intelligence. It presents the advanced approach to hydropower stations and reservoirs dispatching and control, and shares CTG's technical exploration and practical experience in the dispatching and control of cascade hydropower stations along the main stream of the Yangtze River. The course includes an introduction to operation control centers and related systems, main technologies, such as forecasting technology, dispatching technology, related systems, and CTG's practical applications. It also provides an on-site visit to Three Gorges Cascade Dispatch and Communication Center (Chengdu), offering participants the opportunity for face-to-face interaction with engineers.

**Site visit** to cascade control center of Three Gorges Hydropower Station

**Price:** USD 150 VAT INC, and including fees of the site visit, lunch and transportation.

### Course No.3: New hydraulic challenges of water projects at mountainous river

**Organizer:** State Key Laboratory of Hydraulics and Mountain River Engineering of Sichuan University

**Duration:** Full day

This course offers researches concerning safety issues of flood discharge and energy dissipation in large-scale water projects in mountainous rivers, ecological hydraulic problems and solutions, and early warning and prevention of mountain flood disaster.

**Laboratory visit** to State Key Laboratory of Hydraulics and Mountain River Engineering, detailed info refers to: <http://skhl.scu.edu.cn/index.htm>

**Price:** USD 50 VAT INC, and including fees of the lab visit, and transportation.

### Course No.4: Design and Construction of Rock-Filled Concrete Dam

**Organizer:** Technical Committee on Rock-Filled Concrete Dam of China Society for Hydropower Engineering

**Duration:** Full day

The rock-filled concrete is a new mass concrete technology, which uses high performance self-compacting concrete to fully fill the voids among pre-placed large rocks. This technology significantly reduces the amount of cement consumption, lowers the hydration heat and shrinkage of the concrete, eliminates the need for cooling pipes and vibrating or roller compacting, thus simplifies the construction process. To date, China has constructed more than 100 rock-filled concrete dams. The comprehensive unit cost is more than 10% lower than that of traditional concrete dams. This course will present the design and construction technologies on site.

**Site visit** to RFCD under construction near Chengdu City.

**Price:** USD 150 VAT INC, and including fees of the site visit, lunch and transportation.



## Introduction

The ICOLD Young Professionals Forum (YPF) aims to inspire and guide the next generation to actively engage and shape the future of ICOLD. Focusing on young professionals, embarking on the early stages of their careers.

[https://www.icold-cigb.org/GB/icold/icold\\_young\\_professionals\\_forum.asp](https://www.icold-cigb.org/GB/icold/icold_young_professionals_forum.asp)

## 33 National YPFs Established

To date (2024) 33 national committees have created their own group of young professionals (in alphabetical order): Albania, Argentina, Australia, Austria, Brazil, Burkina Faso, Canada, China, Czech Republic, France, Germany, Greece, India, Indonesia, Iran, Italy, Japan, Korea, Mozambique, New Zealand, Norway, Poland, Romania, Russia, Slovenia, South Africa, Spain, Sweden, Switzerland, Uganda, United Kingdom, United States of America.

## YPF Board Members

Chair		Board Members				
						
<b>Mateja Klun</b> 2022-2025	<b>Amit Gautam</b> 2022-2025	<b>Giulia Buffi</b> 2023-2026	<b>Yang Guang</b> 2023-2026	<b>Yulia Zakrevskaya</b> 2023-2025	<b>Brandon Pearce</b> 2024-2027	<b>Lara Gehrman</b> 2024-2027

## YPF Events in ICOLD 2025

- 📅 YPF Workshop - Saturday Morning 17 May
- 🗣️ Dam and Water Resources Management in the Context of Energy Transition (Keynote Speeches, Presentations, Panel Discussion ...)
- 📅 Mentoring Session - Lunch Time Saturday 17 May and Sunday 18 May
- 🗣️ Attending young professionals will have the possibility to register for a mentorship session. More information is available on the following link: [www.icold-cigb2025.com/web/content/m1009](https://www.icold-cigb2025.com/web/content/m1009)
- 📅 YPF Meeting - Sunday Afternoon 18 May
- 🗣️ Young Professionals' Annual Meeting (Experience Sharing, Election, Group Discussion ...)

- 📅 Young Professionals' Night - Sunday Evening 18 May
- 🗣️ Social Event for Young Professionals

[And more >>>](#)

## Call for Candidates

Call for the candidates will be open soon.

Requirements:

- YPF board members serve a three-year term.
- Candidates must be endorsed by the National Committee they represent.
- Each National Committee can endorse a maximum of one candidate.
- It is preferred that each ICOLD region is represented on the YPF board to ensure diversity.
- Candidates are expected to attend the ICOLD annual meeting in person for the duration of their term.
- Please note that you need to be under 40 years old for the entire duration of the term.

## A Presence on Social Networks to Keep You Informed

You can follow the activities and news of the Young Professionals Forum on the LinkedIn page. To access it, just click on the following link: [www.linkedin.com/groups/4679910/](https://www.linkedin.com/groups/4679910/)

## For More Information

Please feel free to contact us at [icold2025ypf@foxmail.com](mailto:icold2025ypf@foxmail.com)



During the annual meeting and congress week, technical visits are planned on Tuesday, 20 May, lasting all day. One of the two technical visit routes can be chosen by the delegates and by the accompanying persons. Two routes are as follows:

**Price: USD 100 of each trip, tax INC, including traffic and the lunch.**

### Route No.1: Dujiangyan Project and Mount Qingcheng

Dujiangyan, the World Cultural Heritage, World Natural Heritage and World Irrigation Project Heritage, is located in Chengdu, which has provided safe water to millions of people for over 2,200 years and makes Chengdu known as “the land of abundance”.

Mount Qingcheng is a Taoist sanctuary. Mount Qingcheng and the Dujiangyan Project are both listed as a Cultural and Natural World Heritage Site by UNESCO.



### Route No.2: Zipingpu Dam and Lijiayan Dam

Zipingpu Dam, located at the upstream of Min River, is a large and irreplaceable water conservancy hub project mainly for agricultural irrigation in Dujiangyan and water delivery in Chengdu urban, as well as electricity generation, flood control, environmental protection, and other comprehensive benefits. The project has a concrete-faced rockfill dam (CFRD) with a maximum height of 156m, a reservoir with capacity of 1112 MCM, and a generation system with total installed capacity of 760MW, which was completed in 2006. On 12<sup>th</sup> May 2008 the dam withstood the severe earthquake of magnitude 8.

Lijiayan Dam, is located in Chengdu, Sichuan Province, with a main task of urban and rural water supply. The total reservoir capacity is 173.46 MCM with a normal water storage level of 763m, the main structures of the project include the dam, flood discharge and energy dissipation structures, water conveyance system for power generation and water supply structures. The concrete faced rockfill dam of Lijiayan Reservoir has a maximum dam height of 123m, with crest width of 12m, and crest length of 373m. The upstream dam slope is 1:1.5, and the downstream dam slope is 1:1.6~1:1.5. In view of the complex tectonic background of the project area, combined with the relevant situation of the Wenchuan Earthquake in 2008, the seismic design of the dam is carried out with an exceedance probability of 2% in 100-year return period and a corresponding peak ground acceleration of 363cm/s<sup>2</sup>. The seismic design of the flood discharge and water supply buildings is carried out with an exceedance probability of 5% in 50-year return period and a corresponding peak ground acceleration of 206cm/s<sup>2</sup>. Seismic network monitoring systems will be installed in the dam and reservoir area.



Study tours are provided before and after the congress with program combining technical visits of dams and cultural and tourist activities. 2 Pre-study and 5 Post-study tours will be arranged to visit various projects within 3 days in China. On the invitation of JCOLD, a post-study tour to Japan will be arranged within 4 days. Participants who are interested in post-study tour to Japan (No.6) need to send email to [secretariat@jcold.or.jp](mailto:secretariat@jcold.or.jp) for further information and payment of the tour. In case of a too low number of registrants, we reserve the right to cancel a trip; registered people can then choose another planned tour.

Routes Plan	Price/person Single room	Price/person Double room
Pre-Study tour No 1	\$850	\$800
Pre-Study tour No 2	\$750	\$700
Post-Study tour No 1	\$900	\$850
Post-Study tour No 2	\$750	\$700
Post-Study tour No 3	\$770	\$720
Post-Study tour No 4	\$820	\$770
Post-Study tour No 5	\$890	\$840
Post-Study tour No 6	JPY 250000 (without flights) JPY 330000 (with flights)	JPY 245000 (without flights) JPY 325000 (with flights)

## Pre-study tours

### Tour No.1:

**Along Yangtze River :From Gezhouba Project to Shuibuya Project and Three Gorges Project**

#### Day1 (Thursday 13<sup>th</sup> May):

Check in and gather at Yichang Junyao International Hotel (No.51, Xiling Yi Road, Yichang) in the morning. After lunch, take the bus to Three Gorges Cascade Dispatch & Communication Center, which is responsible for the joint optimal operation for six cascade hydropower stations in the main stream of the Yangtze River, including Wudongde, Baihetan, Xiluodu, Xiangjiaba, Three Gorges and Gezhouba. After the visit, take the bus to Gezhouba Project. It was completed in 1988, which has a concrete gravity dam with maximum height of 53.8m, a total storage capacity of 741 MCM, and a total installed capacity of 2.735 GW. Evening and night in Yichang.



#### Day2 (Wednesday 14<sup>th</sup> May):

Visit to Shuibuya Hydropower Station by bus and have lunch there. Shuibuya Dam was completed in 2008, it has a maximum dam height of 233.2 m, a total storage capacity of 4580 MCM, and a total installed capacity of 1.84 GW. Return to the hotel in Yichang.





### Day3 (Thursday 15<sup>th</sup> May):

Visit to Three Gorges Project by bus and have lunch there. As the most attractive dam project in China, the Three Gorges Dam is a concrete gravity dam with dam height of 185m and crest length of 2335m. The total storage capacity is 39,300 MCM, the total installed power generation capacity is 22.5 GW, and the annual power generation exceeds 100 TWh. We also visit the double-line five-grade ship locks, Three Gorges Ship Lift known as "super elevator", Three Gorges Project Museum, Yangtze River Rare Plant Research Institute and Yangtze River Rare Fish Conservation Center. Return to Chengdu from Yichang Sanxia International Airport by plane.



### Tour No.2:

**Along Dadu River** **From Shuangjiangkou Dam to Houziyan Dam**

#### Day1 (Thursday 13<sup>th</sup> May):

Gather at hotel in Chengdu in the morning. Go to Barkam City, Aba Prefecture, and visit to Shuangjiangkou Hydropower Station, with a core rockfill dam of 314m height, a storage capacity of 2,897 MCM and an installed capacity of 2 GW. The average annual power generation is 7.71TWh. Return to Jinchuan County to have dinner and stay the night.



#### Day2 (Wednesday 14<sup>th</sup> May):

Visit Houziyan CFRD with maximum height of 223.5m, which located in a highly seismic region. The total storage capacity is 706 MCM, and the installed capacity is 1700 MW, with an annual power generation of 7.36 TWh. After lunch, go to Jinluding County, Ganzi Prefecture to have dinner and stay the night.



#### Day3 (Thursday 15<sup>th</sup> May):

Return to hotel in Chengdu and have lunch.



## Pre-study tours

## Post-study tours

### Tour No.1:

**Along Yangtze River: From Gezhouba Project to Three Gorges Project and Danjiangkou Project**

#### Day1 (Saturday 24<sup>th</sup> May)

Departure from Chengdu to Yichang by plane. Check in at the hotel in Yichang. After lunch, take the bus to Three Gorges Cascade Dispatch & Communication Center, which is responsible for the joint optimal operation for six cascade hydropower stations in the main stream of the Yangtze River, including Wudongde, Baihetan, Xiluodu, Xiangjiaba, Three Gorges and Gezhouba. After the visit, take the bus to Gezhouba Project. It was completed in 1988, which has a concrete gravity dam with maximum height of 53.8m, a total storage capacity of 741 MCM, and a total installed capacity of 2.74 GW. Evening and night in Yichang.



#### Day2 (Sunday 25<sup>th</sup> May):

Visit to Three Gorges Project by bus and have lunch there. As the most attractive dam project in China, the Three Gorges Dam is a concrete gravity dam with dam height of 185m and crest length of 2335m. The total storage capacity is 39300 MCM, the total installed power generation capacity is 22.5 GW, and the annual power generation exceeds 100 TWh. We also visit the double-line five-grade ship locks, Three Gorges Ship Lift known as "super elevator", Three Gorges Project Museum, Yangtze River Rare Plant Research Institute and Yangtze River Rare Fish Conservation Center. Evening and night in Yichang.

#### Day3 (Monday 26<sup>th</sup> May):

Departure from Yichang to Shiyan by bus and have lunch there. Visit Danjiangkou Project, the key project for the development and management of the Han River. It is a concrete gravity dam was completed in 1973, and the dam heightening project was started in 2005 and completed in 2013. After 8 years' construction, the dam crest has been heightened from 162m to 176.6m, the total storage capacity is 31950MCM, and the total installed capacity is 900 MW. It is the second largest reservoir in China. Return to Shiyan to have dinner and stay at night for the end of the tour.





**Tour No.2:**  
**Along Dadu River ☞ From Shuangjiangkou Dam to Houziyan Dam**

**Day1 (Saturday 24<sup>th</sup> May):**  
Gather at hotel in Chengdu in the morning. Go to Barkam City, Aba Prefecture, and visit to Shuangjiangkou Hydropower Station, with a core rockfill dam of 314m height, a storage capacity of 2,897 MCM and an installed capacity of 2 GW. The average annual power generation is 7.71 TWh. Return to Jinchuan County to have dinner and stay the night.



**Day2 (Sunday 25<sup>th</sup> May):**  
Visit Houziyan CFRD with maximum height of 223.5m, which located in a highly seismic region. The total storage capacity is 706 MCM, and the installed capacity is 1700 MW, with an annual power generation of 7.36 TWh. After lunch, go to Jinluding County, Ganzi Prefecture to have dinner and stay the night.

**Day3 (Monday 26<sup>th</sup> May):**  
Return to hotel in Chengdu for the end of the tour.



**Tour No.3:**  
**Along Yalong River ☞ From Jinping I Hydropower Station to Kala Hydropower Station**

**Day1 (Saturday 24<sup>th</sup> May):**  
Departure from Chengdu to Xichang by train. After lunch, go to Jinping Town. Evening and night in Jinping Town.



**Day2 (Sunday 25<sup>th</sup> May):**  
Visit to Jinping I Hydropower Station in the morning. Jinping I Dam with the height of 305m is the highest concrete double-curvature arch dam in the world recognized by Guinness World Record. It has a total installed capacity of 3600MW and a multi-year average annual power generation of 16.62 TWh. After lunch, go to Kala Hydropower Station. with a concrete gravity dam of 123m height. The annual power generation is approximately 4.6 TWh. Return to Jinping Town to have dinner and stay the night.

**Day3 (Monday 26<sup>th</sup> May):**  
Visit Fish Restocking Station in Jinping I Hydropower Station. Take bus to Xichang and have lunch. Return to Chengdu by train for the end of the tour.



**Tour No.4:**  
**Along Yellow River(middle) ⑤ From Yellow River Museum to Xiaolangdi Project to Sanmenxia Project**

**Day1 (Saturday 24<sup>th</sup> May):**

Departure from Chengdu to Zhengzhou by plane. Check in at the hotel and have lunch. Visit Yellow River Museum, a natural science and technology museum with a focus on the Yellow River. It show cases and introduces to the audience the natural overview of the Yellow River, including its geography, topography, climate, and the Yellow River culture generated by human activities, as well as water and drought disasters, river hazard control, water resource development and utilization. After the visit, go to Luoyang to have dinner and stay the night.



**Day2 (Sunday 25<sup>th</sup> May):**

Visit Xiaolangdi Project, located on the main stream of the Yellow River. It is a key project for Yellow River sediment management. The dam is a rockfill dam with a maximum height of 160m, a total storage capacity of 12,650 MCM, and a total installed capacity of 1.8 GW. After lunch, take bus to Sanmenxia Project, the first large-scale water conservancy project on the Yellow River. The installed capacity of the power station is 1160MW. The average annual power generation is 6 TWh, and the dam is a concrete gravity dam with a maximum height of 106m. Evening and night in Luoyang.



**Day3 (Monday 26<sup>th</sup> May):**

Take bus to Zhengzhou Xinzheng International Airport or Luoyang Beijiao Airport for the end of the tour.



**Tour No.5:**  
**East China ⑤ From Liyang pumped-storage power station to Liangzhu Archeological Site , Xinanjiang Hydropower Station and National Water Museum of China**

**Day1 (Saturday 24<sup>th</sup> May):**

Arrival at Nanjing Lukou International Airport. Visit Liyang Project in Jiangsu Province. The total installed capacity of the Liyang Pumped Storage Power Station is 1500MW, with an annual power generation of over 2 TWh. It plays an important role in Jiangsu and East China power grids, meeting the growth demand of East China power, and achieve great performance in peak-valley regulation. Evening and night in Hangzhou.



**Day2 (Sunday 25<sup>th</sup> May):**

Visit of Liangzhu Archeological Site, located in the lower reaches of the Yangtze River in China around the Taihu Lake basin, dates from 3300 BC to 2300 BC, and has been developing for about 1000 years. It belongs to the late Neolithic cultural site group. After the visit, return to Hangzhou to have dinner and stay the night.



**Day3 (Monday 26<sup>th</sup> May):**

Visit Xinanjiang Gravity Dam with dam height of 105m. The total storage capacity is 21,626 MCM and installed capacity is 850 MW. It is the first large-scale concrete gravity dam hydropower station in China to be designed, equipped, and constructed independently after 1949. After lunch, take bus to National Water Museum of China, located on the south bank of the Qiantang River in Hangzhou, covering an area of 36500m<sup>2</sup>. The design of the museum adopts the style of a tower, adding a traditional flavor to a modern architecture. Appreciated from afar, the building is like a crystal pagoda floating on the water. After the visit, return to Hangzhou to have dinner and stay the night.



**Tour No.6:**  
**Japan route** ② **From Kurobe Dam to Asuwagawa Dam and Keage hydropower station.**

**Day1 (Saturday 24<sup>th</sup> May):**

Departure from Chengdu to Narita by plane in the morning. As we arrive in Narita in the afternoon, we will drive to Nagano Pref. by bus to settle at the hotel.



**Day2 (Sunday 25<sup>th</sup> May):**

Visit the Kurobe arch dam. Kurobe dam is the iconic arch dam of 186 m high completed in 1963 for the hydropower station of 337 MW. We will have the tour looking around the dam including the rock shear test apparatus used at the time for the design of the dam. After lunch, we will drive to a historical city of Kanazawa and stay the night.



**Day3 (Monday 26<sup>th</sup> May):**

Visit Asuwagawa dam. Asuwagawa dam is a flood mitigation dam (also referred to as a dry dam) with 96m high concrete gravity dam under construction by RCD method. We will have the presentation of the overview of the dam including the design concept and visit the dam site under construction. We will stay in the hotel in Kyoto with strolling famous area at the night.



**Day4 (Tuesday 27<sup>th</sup> May):**

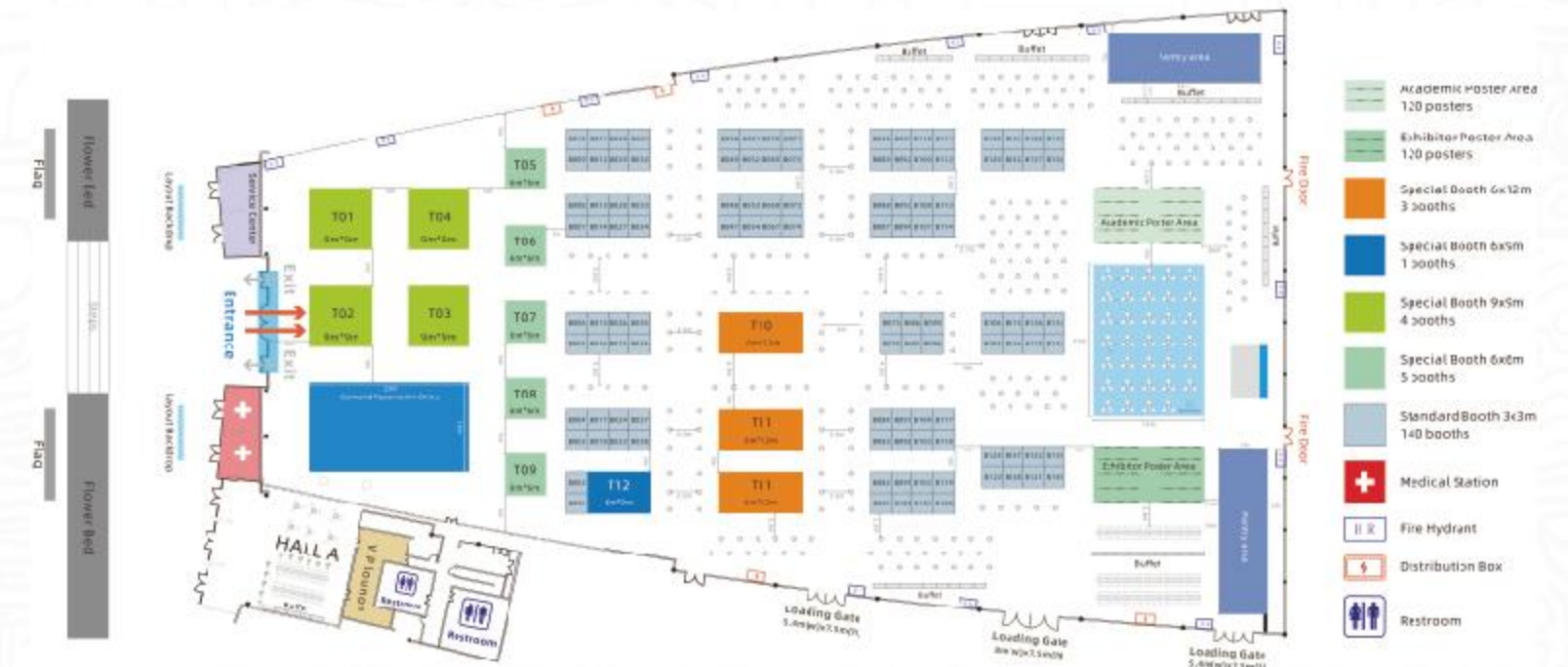
Visit the Keage hydropower station. The power station commenced in 1891 utilizes the discharge from the Biwako Sosui (Diversion project) originating from the Japanese largest natural lake of Lake Biwa. Biwako Sosui has contributed to the development of Kyoto area by providing the transportation by water, and has been registered as Japanese Heritage. In the afternoon the tour will finish at the hotel after free strolling in Kyoto city.



The exhibition will be held in an exhibition hall, with an area of 11,000 m<sup>2</sup>, of the Chengdu Century City New International Convention and Exhibition Center. Products, technical solutions, and practical cases, etc. related to dams, reservoirs and hydropower stations will be exhibited. Delegates will visit the exhibition, poster displays, and enjoy networking and refreshments, etc. Complimentary food & beverages will be provided for delegates.

Please see details at <https://www.icold-cigb2025.com>

## EXHIBITION FLOOR PLAN





## Welcome Reception

Join us for a warm welcome reception. A selection of beverages and local delicacies will be provided to enjoy while you mingle and network in a relaxed setting. The evening will feature light music, engaging conversations, and a chance to experience our region's unique flavors.

- 📅 Date: Monday night 19<sup>th</sup> May
- 📍 Venue: Crystal Hall of Chengdu Century City New International Convention and Exhibition Center

## Farewell Dinner

For farewell dinner, a memorable dinner infused with cultural performances will be presented. The evening will be highlighted by performances that showcase Chinese traditions. Enjoy a meal while being entertained by local artists, creating an atmosphere to cherish the moments we've shared.

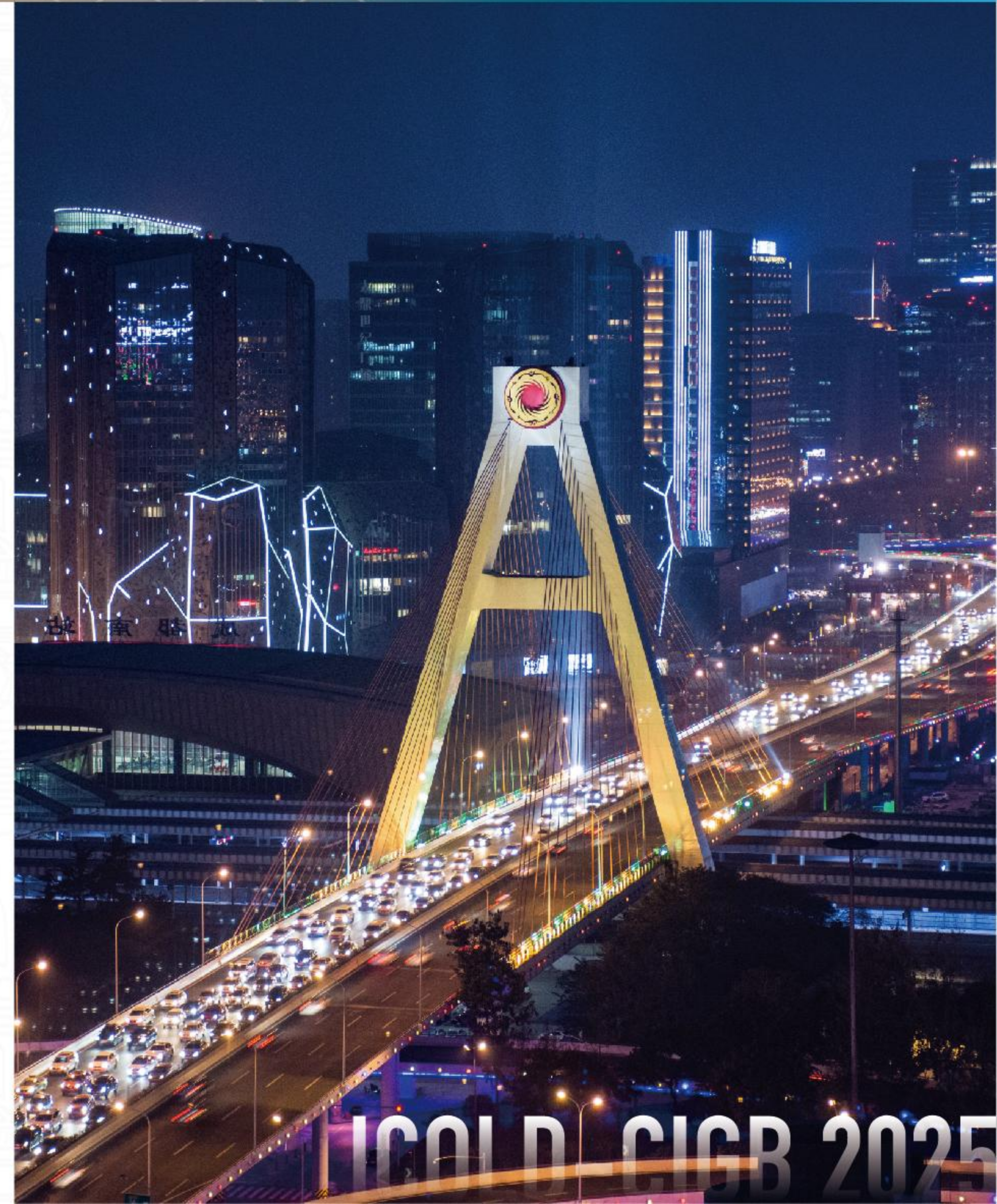
- 📅 Date: Friday night 23<sup>rd</sup> May
- 📍 Venue: Crystal Hall of Chengdu Century City New International Convention and Exhibition Center

## Cultural Event

Join us for an enriching cultural event at the Jinsha Site Museum, where you'll embark on a museum tour showcasing ancient artifacts, enjoy local performances, and indulge in a showcase of Sichuan's finest cuisine.

Jinsha site is the urban center of the ancient Shu Kingdom, the center of the ancient civilization of the upper reaches of the Yangtze River, from the 12th century BC to the 7th century BC (approximately 3,200-2,600 years ago). Its civilization, along with the Sanxingdui civilization, was two of the peaks of development in ancient Shu history. As the first major archaeological discovery in 21st century China, Jinsha site has excavated the densest collection of ivory, the most abundant gold and jade artifacts of any site dating back to the same period globally. The most famous Sun and Immortal Birds Gold Ornament, has been determined as the main pattern of China cultural heritage and the symbol of Chengdu's urban image. The discovery of Jinsha site proves that Chengdu has an urban history of more than 3,000 years, thus being regarded as the starting point of Chengdu's urban history.

- 📅 Date: Tuesday night 20<sup>th</sup> May
- 📍 Venue: Chengdu Jinsha Site Museum.
- ⌚ Time Duration: 60 min
- 👤 No. of participants: 1500





## 📖 Afternoon , 16<sup>th</sup> May, (Half day)

### Route No.1:



#### 📍 Chengdu Museum

Chengdu Museum stands out for its personalized approach to history and culture. Professional insights into the artifacts and sites will be enjoyed, much like having a knowledgeable friend explain a book's content.



#### 📍 Kuanzhai Alley

Kuanzhai Alley are actually two separate street-one wide, the other narrow but next to each other. It is very similar to the Hutong in Beijing with a typical Sichuan character. On a "low-season" time, these streets were still full of visitors. Some of the buildings here are more than 200 years old. It had every type of goods, souvenirs, foods that you can think of.



### Route No.2:



#### 📍 Research Base of Giant Panda Breeding Center

On arrival, embark on a tour of the research facility and witness giant pandas in every stage of development; gain insight into their physiology and behaviors from the expert staff members who care for them and capture photographs of the majestic creatures as they nibble bamboo.

## 📅 17th May, (Full day)

### Route No.3:



#### 📍 Dujiangyan Project

Dujiangyan, the World Cultural Heritage, World Natural Heritage and World Irrigation Project Heritage, is also located in Chengdu, which has provided safe water to millions of people for over 2,200 years and makes Chengdu known as "the land of abundance".

#### 📍 Qingcheng Mountain

Escape the metropolitan madness of the city and experience the natural splendor of the Sichuan region on an immersive full-day excursion from Chengdu. Marvel at the sacred temples and impressive halls cradled by dense layers of bamboo trees at Qingcheng Mountain.



Note: In case of a too small number of participants of the city tour, we reserve the right to cancel a trip; registered people can then attend the meetings or choose another trip.

## 📅 19th May, (Half day)



#### 📍 Wuhou Memorial Temple

It is an ancient temple or shrine to memorize Zhugeliang and Liubei of Three Kingdoms period in ancient China.

#### 📍 Jinli Pedestrian Street

Jinli Pedestrian street is near to the Wuhou Memorial Temple, there's tranquil areas, ponds, birds, teahouses to see and the shrine / temple as the highlight.



#### 📍 Iron Buddha Street

Iron Buddha Street: Enjoy intangible cultural heritage performances (tea ceremony, Sichuan opera, etc.), boat performances, Hanfu fashion shows, prayer lanterns, Hanfu parades, etc.

**21<sup>st</sup> May, (Full day)**



**Research Base of  
Giant Panda Breeding Center**

Research Base of Giant Panda Breeding. On arrival, embark on a tour of the research facility and witness giant pandas in every stage of development; gain insight into their physiology and behaviors from the expert staff members who care for them and capture photographs of the majestic creatures as they nibble bamboo.



**Chengdu Museum**

Chengdu Museum stands out for its personalized approach to history and culture. You'll gain professional insights into the artifacts and sites, much like having a knowledgeable friend explain a book's content.



**Kuanzhai Alley**

Kuanzhai Alley are actually two separate street-one wide, the other narrow but next to each other. As other reviewers had observed, it is very similar to the Hutong in Beijing. On a "low-season" time, these streets were still full of visitors. Some of the buildings here are more than 200 years old. It had every type of goods, souvenirs, foods, that you can think of.

**22<sup>nd</sup> May, (Full day)**

**Jiaozi Park/Financialcity twin tower/Tianfu Square/IFS/Taikoo Li/HeJiang Pavilion**

Enjoy ecological view of Jiaozi Park and visit of twin tower.

View the beautiful scenery of Chengdu city by vehicles. Understand the cultural history and urban style of Chengdu.





## 23<sup>rd</sup> May, (Full day)

### Wangjianglou Park

Huge swaths of bamboo tower over you providing welcome shade on a sunny day. Throughout the park there are numerous statues and formally planted areas. There are various pavilions and pagoda. Also, bamboo forest, small ponds and some exhibitions.



### Dongmen Market

Dongmen Market: Visit cultural districts, watch folk performances, showcase intangible cultural heritage in a lively manner, immerse yourself in traditional crafts and food products of Chengdu handmade intangible cultural heritage.



Note: In case of a too small number of participants of the city tour, we reserve the right to cancel a trip; registered people can then attend the meetings or choose another trip.





- 1** INTERCONTINENTAL CENTURY CITY CHENGDU
- 2** HOLIDAY INN CHENGDU CENTURY CITY-WEST TOWER
- 3** CONVENTION
- 4** HOLIDAY INN CHENGDU CENTURY CITY-EAST TOWER
- 5** EXHIBITION HALL

## Floor plan

### 6F

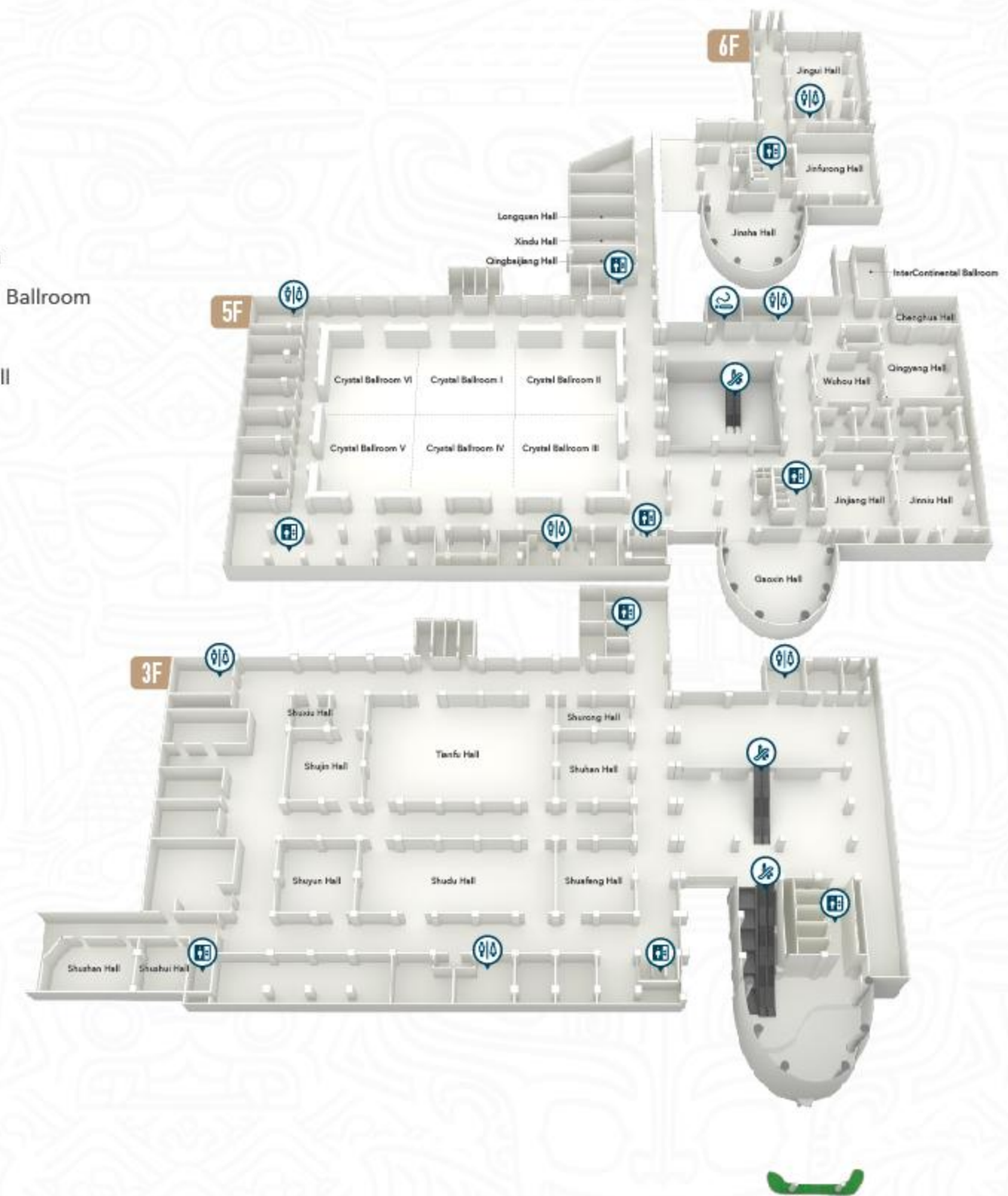
- Jinsha Hall
- Jinfurong Hall
- Jingui Hall

### 5F

- Crystal Ballroom
- InterContinental Ballroom
- Gaoxin Hall
- Qingbaijiang Hall
- Xindu Hall
- Longquan Hall
- Jinjiang Hall
- Jinniu Hall
- Wuhou Hall
- Qingyang Hall
- Chenghua Hall

### 3F

- Tianfu Hall
- Shujin Hall
- Shuxiu Hall
- Shuhan Hall
- Shurong Hall
- Shushan Hall
- Shushui Hall
- Shuyun Hall
- Shudu Hall
- Shuafeng Hall



## Chengdu

A well-known transportation hub and tourist city, is famous for its extensive transportation system. Being the communication junction of southwest China and the gateway to Tibet, Chengdu is accessible from and to almost all the major countries in the world, which conveniently connected to over 100 domestic and international airports. When you plan a Chengdu tour, surely many ways of transportation will help you reach this ideal destination.



Chengdu Sichuan Map

## Railway Stations and Airport in Chengdu



### ✈ By Flight

Located about 18km from Chengdu city center, Chengdu Shuangliu International Airport (CTU) is the current only one airport serving tourists entering and leaving Chengdu. It has more than 210 domestic airlines from/to major cities in China, like Beijing, Shanghai, Xi'an, Lhasa, Guilin, Kunming, Lijiang, Zhangjiajie and main destinations in Sichuan like Jiuzhaigou, Daocheng, and Aba Hongyuan. Meanwhile, there are over 120 international & regional airlines connecting Chengdu with Hong Kong, Macau, Los Angeles, Chicago, San Francisco, Frankfurt, Paris, Sydney, Melbourne, Singapore, Tokyo, Seoul, Moscow, etc.

### 🚆 By Train

Chengdu can be reached by normal train as well as high speed trains. And taking high speed train is the fastest and most convenient way to visit Chengdu in a short distance travel. The high-speed train trip from Chongqing to Chengdu takes about 1.5-2 hours, Xi'an to Chengdu about 4 hours, Chengdu to Guiyang about 4 hours, Beijing to Chengdu nearly 8 hours, etc. There are also intercity bullet trains from Chengdu to Dujiangyan (about 20 mins), Leshan (1h), Emeishan (1.5 hrs), Ya'an (within 1.5 hrs) Yibin (1.5 hrs). From Chengdu, you can also take overnight trains to get to Lhasa, Zhangjiajie. Please figure out which station you are going to use after booking your ticket, because Chengdu has several stations in use.

### 🚌 By Bus

Long-distance coach is also popular used to get to surrounding destinations of Chengdu, such as Leshan, Emeishan, Jiuzhaigou, Mt. Siguniang and places in western Sichuan.



InterContinental Century City Chengdu Complex and Holiday Inn Chengdu Century City are reserved for the Congress. Hotel Information about the hotel descriptions, amenities, accommodation price and conditions and terms refer to following websites.



### Intercontinental Century City Chengdu

- 📍 Location: No.88, shijicheng Road, High-tech Zone, Chengdu
- 🌐 Reservation available at:  
<https://www.icold-cigb2025.com/>
- 📏 Distance: 500 meters from the Chengdu Century City New International Convention and Exhibition Center, about 3.1km to Global Center, 20.9km to Chengdu Panda Base, 10.7km to Chunxi Road, 10.9km to Renmin Park



### Holiday Inn Chengdu Century City West Tower

- 📍 Location: No.208 West Tower, Century City Boulevard Chengdu.
- 🌐 Reservation available at:  
<https://www.icold-cigb2025.com/>
- 📏 Distance: 300 meters from the Chengdu Century City New International Convention and Exhibition Center, about 3.1km to Global Center, 20.9km to Chengdu Panda Base, 10.7km to Chunxi Road, 10.9km to Renmin Park

The hotel charges include tax and breakfast

### Registration Fee Standards (USD)

	Early bird registration	Web and On-site registration	Notes
Congress and Annual Meeting	\$1400	\$1560	ICOLD member countries
	\$1680	\$1880	Non ICOLD member countries
Symposium only	\$490	\$545	
Student or Young Engineer (under 35 years old)	\$700	\$780	
Accompanying Person	\$520	\$620	Activities for 5 days, other activities offered with additional charges

★ Supporting documents to be provided at the time of registration  
The registration fee includes taxes

#### Registration fees for the entire event include:

- Admission to the ICOLD World Congress and Annual Meeting, and Symposium.
- ICOLD Congress and soft copy of Symposium Proceedings
- Technical Exhibition Access
- Coffee breaks, lunches from 18<sup>th</sup> to 23<sup>rd</sup> May, reception of 19<sup>th</sup>, supper of 20<sup>th</sup> and farewell dinner of 23<sup>rd</sup>.
- Social and cultural program and city tour
- Book «the Dam Construction in China-A Seventy-Year Review»
- Delegate bag including, among others, the name badge and buffet tickets

#### The Symposium registration fees include:

- Admission to the Symposium
- Technical Exhibition Access
- Coffee breaks and lunches for 19<sup>th</sup> and 20<sup>th</sup> May
- Welcome reception on Monday, 19<sup>th</sup> May
- Delegate bag including the name badge and the soft copy Symposium Proceedings

#### Registration fees for accompanying persons include:

- Access to the opening ceremonies of the Symposium and the Congress
- Coffee breaks and lunches from 18<sup>th</sup> to 23<sup>rd</sup> May, reception of 19<sup>th</sup>, supper of 20<sup>th</sup> and farewell dinner of 23<sup>rd</sup>.
- Social and cultural program and city tour
- Delegate bag including the name badge and buffet tickets



## Methods of Payment

Registration fees must be paid in US Dollars by one of the following methods:

- Credit card: For payment by credit card please use the on-line payment system
- Bank Transfer: The registrant needs to submit registration form, and an invoice with number (ICOLD-XX) is generated automatically, then the registrant makes payment by bank transfer. Please do indicate the registrant's name, the Registration ID number and email address in transfer notes. This method of payment does not allow for automatic online registration. Once we receive and verify your payment, we will update your payment status in the register system and you can check online.

The bank account number of the host is as follows:

 **Bank** Industrial and Commercial Bank of China, Shijitan Branch

 **Account No.** 0200 0963 2900 0193 808

 **Swift Code** ICBKCNBJBJM

**Any loss caused by registrants' personal mistakes will be borne on your own. Any bank charges applied by the bank are at the expense of the registrant.**

## The Terms of Cancellation

Any request must be made by email to: [icoldcigb2025@iwhr.com](mailto:icoldcigb2025@iwhr.com)

If there are special circumstances that require cancellation of participation and application for a refund, please send your refund request to the organizer by email to [icoldcigb2025@iwhr.com](mailto:icoldcigb2025@iwhr.com), stating the registration number, name of the registrant, mobile phone number or email address of the registrant, the copy of payment voucher and the reason why the application for a refund. The organizer will reply via email to confirm the cancellation of participation and refund matters.

From 1 February to 31 March 2025, 50% of registration fees will be charged.

From 1 April 2025, China Standard Time (UTC+8), the organizer will no longer accept refund applications and the registration fees already paid will not be refunded.

In the event of cancellation of the event due to reasons of the organizer, we will refund the full registration fees less a USD 50 administrative fees.

## Name Change

Any request for name changes should be made by email to: [icoldcigb2025@iwhr.com](mailto:icoldcigb2025@iwhr.com)

## Liability

The congress organizers shall be held liable in the framework of a duty of care as a respectable business partner according to statutory provisions. The liability of the congress organizer – for whatever legal reason – shall be limited to intent and gross negligence. The liability of commissioned service providers shall remain unaffected by this. The attendee shall take part in the congress at his/her own risk. Oral agreements shall not be binding if these have not been confirmed in writing by the congress organizers.

## User Agreement

The delegate agrees that the data, photos, audio and video can be used by ICOLD and CHINCOLD, the host of ICOLD 2025 Event for further steps (Social Media or future congresses).

The delegate agrees that the registration data will be recorded electronically and will be used in the future for sending information per email by ICOLD and CHINCOLD, the host of ICOLD 2025 Event. The delegate agrees that name / company / country will be printed in the official delegate list of the congress. No data will be transferred to further third party.

## Visa

Check with a Chinese high commission, embassy, consulate or travel agency to find out what documents are required to enter China. A website: [www.visaforchina.org](http://www.visaforchina.org) is provided for requiring a visa to enter China as visitors. This website serves as a reference only. For specific and new visa requirements, please refer to the Chinese embassies or consulates in the relevant countries.

## Language

Chinese (Mandarin) is the national language of China, and English is widely spoken in educated circle.

## Weather

The weather in May can range from a low temperature of 17 Celsius degrees, to a high one of 26 Celsius degrees; average rainfall is 104-115mm.

## Currency

Chinese Yuan (RMB)

## Electricity

China's electrical supply and outlets (sockets, wall plugs) are different from those found in the United States and Europe. The electrical supply is 220 Volts and 50 Hertz (cycles per second).