

# **Second Bulletin**

## **Hydropower 2013 and The 3<sup>rd</sup> International Symposium on Rockfill Dams**



### **Sponsors:**

Chinese National Committee on Large Dams  
China Society for Hydropower Engineering

### **Organizers:**

Huaneng Lancang River Hydropower Co., Ltd  
HydroChina Kunming Engineering Corporation  
China Institute of Water Resources and Hydropower Research

### **Co-Sponsors:**

Brazilian Committee on Large Dams  
International Hydropower Association  
International Society for Soil Mechanics and Geotechnical Engineering  
Concrete Faced Rockfill Dams Committee, CSHE  
Others to be decided

## Invitation

Investment in hydropower is investment in the green economy. The key issue is to develop dams and hydropower in a sustainable way. Advanced technologies, new equipments and materials for dam construction have been achieved in different countries. It is necessary for engineers from all over the world to share the new progress. After a series of successful and fruitful conferences such as Hydropower 1996, Hydropower 1998, Hydropower 2004 and Hydropower 2006, Hydropower 2013 jointly sponsored by Chinese National Committee on Large Dams (CHINCOLD) and China Society for Hydropower Engineering (CSHE) will provide a forum for strengthening the international communication and cooperation in hydropower and promote future development of hydropower in a safe, economic, and eco-friendly way.

In recent years, rockfill dams, a popular and competitive dam type, have gained vigorous development due to its advantages in economy and safety. During the Wenchuan Earthquake in 2008 in Sichuan, China, Zipingpu concrete faced rockfill dam (H=156m) has demonstrated the good performance of rockfill dams in seismic resistance. With increasing of the height of rockfill dams and facing more complicated geographic and geologic conditions, many challenging problems have arisen. To provide a platform for professionals to exchange their experiences in rockfill dams, Chinese National Committee on Large dams (CHINCOLD) and Brazilian Committee on Large Dams (CBDB) have jointly sponsored the 1st and the 2nd International Symposiums on Rockfill Dams in 2009 in Chengdu, China and in 2011 in Rio de Janeiro, Brazil, respectively.

Hydropower 2013 and the 3<sup>rd</sup> International Symposium on Rockfill Dams will be held on 1-3 November 2013 in Kunming, the Capital City of Yunnan Province, China.

It is great honor for the Organizing Committee to invite you to join Hydropower 2013 and the 3<sup>rd</sup> International Symposium on Rockfill Dams. We sincerely hope that this conference will contribute significantly to promote the worldwide successful experience in sustainable development of hydropower and dams. We believe the conference will provide a broader communication space and more opportunities for various specialists involved in the field of hydropower and dams.

We are looking forward to welcoming you in Kunming, China in November 2013.

## Venue and Date

Hydropower 2013 and the 3<sup>rd</sup> International Symposium on Rockfill Dams will be held on 1-3 November 2013, in Kunming, Yunnan Province, located at the southwest of China.

Yunnan Province is very rich in water and hydropower resources. It is one of the most important hydropower energy bases in China. There are many large dams and hydropower projects completed or under construction in this area.

Kunming is the ideal venue for leisure traveler, which is located in the south of China. As the capital of Yunnan Province, Kunming, also known as the "city of eternal spring," is one of the most pleasant and relaxed cities in China. It boasts pleasant climate all the year round and ample sunshine and rainfall, turning plants green and flowers in bloom in all seasons. Being the center of science and technology, finance and commerce in Yunnan province, people from all over the world will easily find their sense of belonging in this city.

Kunming is the focal point of Yunnan minority culture. Some 26 ethnic



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minorities such as Yi, Bai, Miao, Dai, Hani and more inhabit the region. Each group has its own featured festivals such as the Torch festival of Yi people, the Golden Temple Fair and so on. The hugely successful 1999 International Horticultural Exposition enhanced the city's influence in the world resulting in a snowball effect upon tourism as more and more foreigners come to discover this enchanting part of the country.

Its alluring highland scenery, bewitching karst landform, varied and exotic habitats and customs and places of historical interest can be found at major scenic spots such as Dianchi Lake, Stone Forest, the Village of Ethnic Culture, Grand View Park, etc.

With its convenient transport links in and out of the city, Kunming welcomes and sees off tens of thousands of visitors every day.



## GENERAL PROGRAM

Date	Time	Activity
Oct. 31 (Thursday)	Full day	Registration
Nov. 1 (Friday)	Morning	Opening Ceremony Invited lectures
	Afternoon	General Assembly
	Evening	Welcome Reception
Nov. 2 (Saturday)	Morning	General Assembly
	Afternoon	General Assembly
Nov. 3 (Sunday)	Morning	Technical sessions
	Afternoon	Technical sessions
Nov. 4-7	Post study tours	

## Main Topics

- I Topics for Hydropower 2013
  - 1 Design Construction & Monitoring of High Dams
  - 2 Safety Assessment and Rehabilitation Technology of Dams
  - 3 Sustainable Development of Hydropower & Dams
    - ★ Environment-friendly Technologies for Dam Construction
    - ★ Integrated Operation of Hydropower Stations and Reservoirs
    - ★ Practice in Reservoir Resettlement
    - ★ Others
- II Topics for the 3<sup>rd</sup> International Symposium on Rockfill Dams
  - 1 General (project introduction, history, cases and experiences of Rockfill Dams)
  - 2 Design and analysis
  - 3 Construction materials and methods
  - 4 Operation, performance and safety monitoring
  - 5 Super-high CFRD dams and earth-core Rockfill dams ( $H \geq 200$  m)
  - 6 Seismic safety of Rockfill dams
  - 7 Others

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## III Evaluation and Award of International Mile Stone Projects to Rockfill Dams

Evaluation and Award of International Mile Stone Projects to Rockfill Dams have been done during the first and second symposiums. Similar Evaluation and Award will be organized during the 3rd symposium.

## Call for papers

Full papers related to above themes are now invited. Please email your full papers in word format to the correspondence address of the meeting. A short CV of each author such as authors' name, affiliation, mailing address, phone number, fax number and e-mail address should be included. Deadline for receipt of full papers is August 31, 2013.

Up to July 1, 2013, more than 100 abstracts have been received. For details, please visit the web: [www.chincold.org.cn](http://www.chincold.org.cn)

The acceptance will be sent to all authors whose papers are accepted. The proceedings of the conference based on the selected papers will be formally published before November 1, 2013.

## Language

The official languages of the Conference are English and Chinese. Simultaneous interpretation will be provided for the assembly meetings.

## Technical Exhibition

During the Conference, a technical exhibition related to the themes of the Conference will be organized. Organizations and companies are welcomed to display their supplies and services to delegations from all over the world.

Companies or organizations interested in the exhibition are kindly invited to contact the secretariat for further details.

## Post technical Tours

There are many large water resources and hydropower projects completed or under construction in China. 4 technical tours will be arranged within 3~4 days after the Conference to some typical dams. Those who will take part in the study tours will not only visit the dams, but also enjoy the beautiful scenes of Yunnan Province and other places. A minimum number of 10 participants are necessary for the tour to take place.

### Tour 1: Kunming--Xiaowan Arch Dam—Dali—Lijiang

Price per person: \$545 double /\$650 single (Includes all meals, accommodations and travel expenses from Nov. 4 through 6)

Participants taking part in this tour will have an opportunity to visit Xiaowan Arch Dam. Xiaowan Arch Dam is 294.5m high with installed capacity of 4200MW. It is the highest arch dam completed in the world.

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The water level has reached the normal water level of 1240m in 2012.

During the tour, participants can also enjoy the beautiful scenery of Dali and Lijiang

The Dali Scenic Region lies in Dali Bai Autonomous Prefecture located in the northwest of Yunnan Province, covering an area of 11,380 square miles with a total population of 3,063,000, of which minority nationalities make up 1,553,000. The Bai people make up 33.2 percent of the total population and the Yi, Hui, Naxi, Miao and other minority nationalities account for a total of 16 percent. Three Pagodas are located about a half-mile northwest of Dali Old Town. They are historical witnesses of the prevailing Buddhism in those days.

The Lijiang old town has a history going back more than 800 years and was once a confluence for trade along the old tea horse road. The Lijiang old town is famous for its orderly system of waterways and bridges. It has been called the “Venice of the East”. It was registered on the UNESCO World Heritage List in December 4, 1997. Each year travelers from all over the world come here to enjoy its special beauty.

D1: Nov.4, driving from Kunming to Xiaowan arch dam, taking a visit on Xiaowan arch dam, then driving to Dali Old Town.

D1: Nov.5, City Tour in Dali Old Town, then driving to Lijiang, lodging in hotel in Lijiang Old Town.

D3: Nov.6, City Tour in Lijiang Old Town, tour will be ended in the hotel in Lijiang Old Town after dinner.



Xiaowan Arch Dam



Lijiang Old Town Tourism

### Tour 2: Kunming—Nuozhadu rockfill dam—Xishuangbanna

Price per person: \$550 double /\$650 single (Includes all meals, accommodations and travel expenses from Nov. 4 through 6)

Nuozhadu Hydropower Project is the 5th hydropower station of the middle and lower reach of Lanchangjiang River. The main dam of the project is an earth core rockfill dam (ECRD) with the dam height of 261.5m. It is the highest ECRD in China and the third highest ECRD in the world. The construction of Nuozhadu ECRD has employed many state of the art technologies, which include the using of mixed gravelly soil for earth core, digital dam technology for construction quality control, etc.

During the tour, participants can also enjoy the beautiful scenery of Xishuangbanna. Xishuangbanna is the southernmost prefecture of Yunnan Province. The prefecture is nicknamed "Aerial Garden" for its luxuriant and multi-layered primitive woods and tropical rain forests, which are teeming with nearly 1000 species of animals and 5,000 kinds of plants.



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Nuozhadu Core Rockfill Dam



Xishuangbanna scenic spot



D1: Nov.4, Driving from Kunming to Pu'er City, taking a tour in the city. Lodging in Pu'er City.

D1: Nov.5, Driving to Nuozhadu Dam, taking a visit on the project, then return to the hotel in Xishuangbanna.

D3: Nov.6, City Tour in Xishuangbanna, tour will be ended in the hotel in Xishuangbanna after dinner.

### Tour 3: Kunming--Three Gorges Project -- Shuibuya Hydropower Project

Price per person: \$950 double /\$1100 single (Includes all meals, accommodations and travel expenses from Nov. 3 through 6)

Three Gorges Project is the largest hydropower project in the world with install capacity of 22500MW. In 2012, the power generation is 84370GWh, setting the record of annual generation capacity since its operation. Shuibuya CFRD is the highest dam of its type, which is completed and has been put into operation for several years with the height of 233.2m and installed capacity of 1840MW.

D1 Nov.4, Fly from Kunming to Yichang, overnight in Yichang

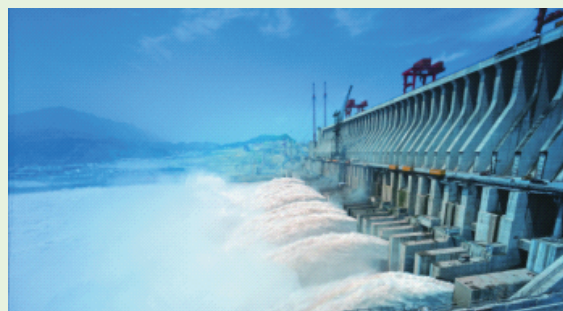
D2 Nov.5, taking a technical visit on Three Gorges Project, then driving to Shuibuya CFRD

D3 Nov.6, taking a technical visit on Shuibuya CFRD, then driving to Geheyan

D4 Nov.7, taking a technical visit on Geheyan Project, then Driving to Yichang City, tour will be ended at the airport in the afternoon.



Bird View of Shuibuya CFRD



Flood Discharge of Three Gorges Concrete Gravity Dam

### Tour 4: Kunming—Liyuan Project—Lijiang Old Town

Price per person: \$745 double /\$850 single (Includes all meals, accommodations and travel expenses from Nov. 4 through 6)

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Installed capacity of the power plant is 2000MW.

Liyuan is a CFRD with height of 155m, which is under construction. The installed capacity of power plant is 2400MW. Liyuan project is the 3rd cascade project of Jinsha River in Yunnan Province.

The purposes of above two projects are power generation, navigation, recreations and etc. The project will greatly promote the local economic and social development.

During the tour, participants will have an opportunity to visit Yulong Snow Mountain and Lijiang Old Town.

D1: Nov.4, Flying from Kunming to Lijiang, taking a tour in the city. Lodging in Lijiang Old Town.

D1: Nov.5, Driving to Liyuan CFRD, taking a visit on the project, then return to the hotel in Lijiang.

D3: Nov.6, Visiting Yulong Snow Mountain, MuFu Palace and ect. Tour will be ended in the hotel in Lijiang Old Town after dinner.



Construction Site of Liyuan CFRD



Lijiang Old Town Tourism



Yulong Snow Mountain

## Registration Fees

The Registration Form is enclosed in this bulletin.

### Conference

The registration fee for the Conference for each participant is US\$750 before 31 August and US\$800 after 1 September 2013. This fee includes the documentation, simultaneous translation, working lunches, coffees during the breaks, and the participation in the various social activities foreseen.

### Program for accompanying persons

The registration fee for the accompanying persons is US\$400 per person. This fee includes the programmed excursions, the assistance at the sessions of the Opening and Closing of the Conference, and the participation in the various social activities foreseen.

### Technical Exhibition

The registration fee for the technical exhibition is US\$300/m<sup>2</sup>. Each stand fee will include one free delegate registration for the conference. Details such as the layout for the exhibition stand will be found in the second announcement.

## PAYMENT

The Payment method should be marked in the registration Form and returned to the secretariat of the meeting. Registration fee, hotel fee and tour fee should be in USD Dollars and made payable by the one of following methods.

### Payment in Advance

#### ● Bank Transfer

Account No.: 0200096309000039706

Account Name: Chinese National Committee on Large Dams

Swift Code: ICBKCNBJBJM

Bank Name: Shijitan Sub-Branch, Beijing Municipal Branch of Industrial and Commercial Bank of China

Bank Address: No.9 Yuyuantan South Road, Haidian District, Beijing 100038, China.

Bank charges are the responsibility of the payee and should be paid at source. To avoid any misunderstanding and for the protection of the participants' interests, a duplicate or photocopy of the remittance order from the bank should be sent with the Registration Form to the Secretariat. The name of the participant as well as details of payment should be clearly marked on the remittance order.

#### ● Credit Card

Only Master Card, Visa Card, American Express Card will be acceptable. Please fill the necessary information in the Credit Card payment and sign your name on the Registration Form. Fax or mail the Payment Form (B) to the Secretariat of LOC. Additional 4% bank charge will be charged in the case of payment by cards.

### Payment on-site

Cash (in USD or equivalent CNY) and credit card (Visa, Master Card and American Express) will be accepted.

## Correspondence Address

All registration forms, abstracts and correspondence concerning on the Hydropower 2013 and the 3<sup>rd</sup> International Symposium on Rockfill Dams should be sent to Secretariat as the following;

Ms. YUAN Yulan

Secretariat of Hydropower 2013 and the 3<sup>rd</sup> International Symposium on Rockfill Dams

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