5th INTERNATIONAL SYMPOSIUM ON ROLLER COMPACTED CONCRETE (RCC) DAMS—“Celebration for 30 years’ application of RCC in Dams”

Sponsored By:
Chinese National Committee on Large Dams
Spanish National Committee on Large Dams
Technical Committee on RCC dams, CSHEE
Technical Committee on RCC dams, CHES
Guizhou Wujiang Hydropower Development Co. Ltd.
Guizhou Branch, China Huadian Corporation
Other sponsors to be invited

Organized By:
China Institute of Water Resources and Hydropower Research
Co-sponsored By:

National Natural Science Foundation of China (NNSFC)
International Commission on Large Dams (ICOLD)
Longyou Wuqiang Concrete Admixture Co., Ltd.
China Three Gorges Project Corporation
Longtan Hydropower Development Co., Ltd.
Chengdu Hydropower Investigation, Design & Research Institute, CHECC
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Guizhou Society for Hydroelectric Engineering
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Sinohydro Corporation
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Sinohydro Engineering Bureau 8
Sinohydro Engineering Bureau 9
Nanjing Hydraulic Research Institute
Jiangsu Bote New Materials Co., Ltd.
Other Corporations, Companies and Institutes to be invited
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FAN Jixiang  Sinohydro Corporation

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TU Huaijian Sinohydro Engineering Bureau 8
WEN Jiahai Sinohydro Engineering Bureau 7
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LUO Daiming Guizhou Survey, Design and Research Institute for Water Resources and Hydropower
CHEN Gaixin China Institute of Water Resources and Hydropower Research
ZHAO Sanqi Guizhou Branch, China Huadian Corporation
INVITATION

RCC technology has been applied in dam construction for about 30 years in the world. In order to celebrate its application and follow those successful and fruitful Symposia held in Beijing (China) in 1991, Santander (Spain) in 1995, Chengdu (China) in 1999 and Madrid (Spain) in 2003, the 5th INTERNATIONAL SYMPOSIUM ON ROLLER COMPACTED CONCRETE (RCC) DAMS will be held in Guiyang, China on November 2–4, 2007.

It is our honor for Chinese National Committee on Large Dams (CHINCOLD) and Spanish National Committee on Large Dams (SPANCOLD) to invite you to participate the symposium, which will contribute significantly to the knowledge and application of RCC technology.

Based on the definition of large dam by ICOLD, there were more than 22 RCC dams completed or under construction located in Spain and more than 90 RCC dams completed or under construction located in China by the end of 2005. Spain and China, two leader countries in RCC dams would like to make their efforts to prepare the 5th Symposium with the biggest ambitions, both in contents and in international scope. This Symposium will provide all attendants to discuss and exchange on RCC dams issues such as design, construction, operation, rehabilitation, maintenance and application.

A technical exhibition for RCC dams will be held during the Symposium. Multi-day technical tours will be arranged to Longtan RCC Gravity Dam (H=216.5m), Suofengying RCC Gravity Dam (H=122m) and etc. after the symposium.
TOPICS

1. BACKGROUND AND NEW TRENDS IN RCC DAMS.
   ◆ Cases and Histories
   ◆ Experiences and scenarios in different countries

2. HIGH RCC DAMS: GRAVITY AND ARCH DAMS.
   ◆ Design
   ◆ Materials
   ◆ Thermal considerations
   ◆ Mixture proportions

3. CONSTRUCTION OF RCC DAMS
   ◆ Quality control
   ◆ Equipments
   ◆ Innovations

4. PERFORMANCE, MONITORING AND REHABILITATION OF RCC DAMS.
   ◆ Performance
   ◆ Monitoring and evaluation
   ◆ Rehabilitation

5. RCC IN OTHER HYDRAULIC STRUCTURES AND UPGRADING
   ◆ Coffers dams
   ◆ Upgrading work
   ◆ Others

6. CSG AND ITS APPLICATION
   ◆ Design
   ◆ Construction
   ◆ Performance

LANGUAGE

The official languages of the Symposium are English and Chinese. Simultaneous translation will be provided for the assembly meetings of symposium.

PAPERS SUBMISSION

By the end of April 2007, the secretariat of the symposium has received 146 abstracts, 90 from China, and 56 from abroad. Paper acceptance has been sent to the authors. The full paper should be submitted to the Secretariat before the 15th July 2007. The proceedings of the symposium based on the selected papers will be formally published before October 2007.
PAPER ABSTRACTS SELECTED
(Total 146 abstracts, 56 from abroad, and 90 from China)

Topic 1: BACKGROUND AND NEW TRENDS IN RCC DAMS (Total 21 abstracts accepted)

1 Canada: George Casagran
   RCC Dams - Inclined Internal Drain Holes

2 Colombia: Luis Fernando Restrepo
   A Fragility Curve Model for RCC Gravity Dams

3 Germany: Francisco Ortega S.
   Design Concepts of Forwork for RCC Dams

4 Iran: Ebrahim Ghorbani
   Feasibility study of high RCC gravity dam in Bakhtyari project

5 Iran: Naser Tarkeshdooz
   Dam Alternative Study and Selection of Optimum One in Rudbar Lorestan Dam

6 Iran: Jafar Asgari Marnani
   The Influence of Foundation Condition on the Design of Rudbar Lorestan RCC Dam

7 Iran: Meysam Fadaee
   Estimation of Deformation Modulus at Rudbar Lorestan Dam Site

8 Libya: A.M Ali
   New alternative method for bonding RCC layers

9 Myanmar: U.Win Kyaw
   An Overview of the Development of the YEYWA Hydropower Project, Myanmar

10 Pakistan: Dr. Izhar ul Haq Diamer
   Bash Dam Project Construction Materials Investigations for RCC Dam

11 Pakistan: Zahid Majeed
   Scenario of Roller Compacted Concrete (RCC) Dams in Pakistan

12 Spain: Juan Carlos De Cea
   RCC Dams in Spain

13 Switzerland: Dr. Alberto M.Scuero
   Taishir RCC Dam in Mongolia

14 UK: Dr. M.R.H.Dunstan
   Overview of RCC Dams at the end of 2006

15 China: PAN Luosheng
   Dam Temperature Control and Crack RCC Key Technologies

16 China: PAN Luosheng
   Comparison on Shear Resistance Test Results of Laboratory and Field for Longtan RCC Dam

17 China: ZHAO Quansheng
   The RCC double-curvature arch dam of Linhekou Hydropower Station

18 China: GAO peng
   Analysis of Influence that the Content of Fines Exercises on Property of RCC in Xiangjiaba Hydropower Station

19 China: LIU Guangyan
   The actual simulating design and new structure of RCC arch dam
**Topic 2: HIGH RCC DAMS: GRAVITY AND ARCH DAMS (Total 85 abstracts accepted)**

1. France: Bernard Bouyge  
   *A High RCC Dam with Low Grade Aggregates*
2. Germany: Dr. Chongjiang Du  
   *Effect of Thermal Shock and Overcooling due to Overtopping of Cold River Water on Dam Concrete*
3. Iran: Prof. Reza Attarnejad  
   *The compare of discrete crack and smeared crack methods in gravity dams.*
4. Iran: Hamid Reza Kazemi Esfeh  
   *Detail Design and Construction Considerations in Jegin RCC Dam Project*
5. Iran: Dr. M. E. Omran  
   *Materials investigation and mix design program for the Jahgin RCC dam in Iran*
6. Iran: R. Berry Dizaji  
   *A Case Study of Deformation Measurements in Rudbar Lorestan RCC Dam (IRAN)*
7. Iran: Maryam Ghaffari Dolama  
   *Design consideration of Bedacli RCC dam*
8. Iran: Hamidreza Araghian  
   *Thermal Analysis of Badovli dam*
9. Iran: Ebrahim Ghorbani  
   *Effect of Plasticizers on mix efficiency and cement content of the roller compacted concrete*
10. Iran: Fakhreddin Takhte Mina  
    *Numerical Simulation of Temperature Variations during the Construction of the Roller Compacted Concrete Dams*
11. Iran: Reza Najafzadeh  
    *Design of Hydraulic Structures of Bedavli RCC Dam*
12. Mexico: Amanda Garduno  
    *Study of shear safety factor and lift joint treatment zonation in RCC dams*
13. Morocco: Ahmed Chraibi  
    *High RCC dams: gravity and arch dams design and Mixture proportions*
    *Trial mixes and full-scale trials for Yeywa RCC dam*
15. Pakistan: Rashid Ali Khan  
    *Gomal Zam Dam Multipurpose Project: A Virgin Experience of High RCC Dam in Pakistan*
16. South Africa: Quentin Shaw  
    *An Investigation into the Thermal Behaviour of Roller Compacted Concrete in Large Dams*
17. Spain: Enrique Grosso Casalini  
    *Exposure time between lifts in RCC dams: A new design method used at El Esparragal Spanish Dam*
18 Switzerland: Dr. Martin Wieland
Proposed Nam Theun 1 RCC Arch-Gravity Dam in Laos
19 UK: Tom Reao
Control of RCC Temperature
20 Vietnam: Pham Hong Giang
The RCC DINH BINH dam in Vietnam
21 Vietnam: Nguyen Quyet Thang
Design and preliminary full-scale trial for the RCC dam at Son La HEP, Vietnam
22 China: Prof. FANG Kunhe
Study on phosphorous slag using for mineral admixture of RCC
23 China: LONG Jiankai
Test and study on the effect of powder coating aggregate on the properties of RCC
24 China: JIANG Rongmei
Impacts on mechanical properties of full grade roller compacted concrete due to layer and size
25 China: CHEN Gaixin
Limestone powder, a new kind of supplementary mineral fines for RCC
26 China: JI Guojin
Tests for Air Content Improvement of Roller Compacted Concrete
27 China: HE Xiang-an
The Research and Application of the New type Admixture in the Large-volume Hydraulic Concrete
28 China: HE Jinrong
Application researches on high frost-resistant durability RCC in severe cold region
29 China: Dr. RUAN Yan
Effect of fly ash on dissolution characteristic of roller compacted concrete
30 China: Prof. LI Penghui
The actual simulating design and new structure of RCC arch dam
31 China: XIAO Kaitao
Study on the Influence of Limestone Powder on Roller Compacted Concrete Performance and Action Mechanism
32 China: SHAO Yong
Dynamic Analysis on Nong-ling RCC Gravity Dam by Considering the Effect of Infinite Foundation Radiation Damping
33 China: Prof. WEI Dazhi
Temperature Control for Longtan RCC Dam
34 China: Dr. CHEN Xiutong
3-D Nonlinear Finite Element Dynamic Analysis on Guandi RCC Gravity Dam
35 China: Prof. YANG Lingqiang
The appliance of 3-D composite layers element in RCC arch dam
Topic 3: CONSTRUCTION OF RCC DAMS (Total 30 abstracts accepted)

1. Australia: Brian Forbes
   *Kinta RCC dam construction experiences*

2. Germany: Francisco Ortega S.
   *Method for the Selection of Plant & Equipment for the Efficient Construction of RCC DAMS*

3. India: V.C.Shelke
   *Construction of the first RCC dams in India at Ghatghar*

4. Iran: Dr. M. E.Omran
   *Design and Construction Aspects of RCC Works at Jahgin Project, Iran*

5. Iran: R. Peyrovadin
   *Construction of the Jahgin dam-the first large RCC dam in Iran*

6. Myanmar: U Aung Koe
   *Construction Planning, Plants and Equipment for Concrete Works at Yeywa HPP*

7. Myanmar: U Myint Zaw
   *Construction of the RCC dam at Yeywa HEP*

8. Spanish: Rafael Ibáñez de Aldecoa Lorente
   *Plans for the Construction of labrena ?Dam in Spain*

9. Switzerland: Dr. Marco Conrad
   *Innovative monitoring devices for an integral observation of thermal stress behavior of large RCC dams*

10. China: Xianjin LONG
    *Construction of the RCC dam at Longtan*

11. China: DAI Bo
    *Study and Practice of the Construction Technique of Longtan Dam under the Condition of High Temperature*

12. China: Prof. LI Chunmin
    *Achievement and revelation from Site Experiment on Thicker Compacted Concrete Layers of RCC Dams for Huanghaiwanzhai Hydropower Station*

13. China: WU Xiaohong
    *RCC Dam Design and Construction of PengShui Hydropower Station*

14. China: RUAN Guanghua
    *Study and Application of New Technology for RCC Sand Production*

15. China: LI Lee
    *The Significance of Calibration of Shallow Nuclear Density Gauge*

    *Analysis of indicators and their influencing factors of RCC construction quality*

17. China: ZHENG Zhiren
    *Construction in full section in RCC gravity dam of Suofengying hydropower station in GuiZhou*

18. China: HUANG Houlong
    *Construction of Roller Compacted Concrete Dam on Suofengying Hydropower Station*

19. China: CAI Shenghua
    *Study on RCC Construction Technology of Pengshui Hydropower Station*

20. China: TIAN Yugong
    *Research and Application of LongShou Arch Dam RCC of Dry severely Cold Local*

21. China: WU Xu
    *Rapid Construction Technology for Compacted Concrete for Longtan Hydropower Dam Project*
Topic 4: PERFORMANCE, MONITORING AND REHABILITATION OF RCC DAMS.
1 Spain: Mr. Raimundo LaFuente
Final phase of the cooling process of the Rialb RCC dam
2 Germany: Matthias Goltz
Distributed fibre optic temperature measurements - an competitive alternative for temperature monitoring in high RCC dams
3 China: YU Sanda
Analysis for Monitoring Results of the Third-stage RCC Coffer dam in the Three Gorges Project

Topic 5: RCC IN OTHER Hydraulic Structures AND UPGRADING
1 USA: Jim Zhou
Designing the Tallest RCC Dam Raise for San Vicente Dam in Southern California
2 China: WANG Ping
Study on the Reserved Bricks made with Roller Compacted Concrete technique for flood control

Topic 6: CSG AND ITS APPLICATION
1 China: Dr. XIONG Kun
Study on seismic safety of hardfill dam
2 China: Dr. PENG Yunfeng
TECHNICAL EXHIBITION

During the symposium, a technical exhibition related to the themes of the Symposium will be organized. Organizations and companies interested in stands are kindly requested to contact the secretariat of the symposium for further details.

Contact: Ms. MA Zhongli
Email: mazhongli@iwhr.com; chincold@iwhr.com;
Tel: +86-10-68435228,
Fax: +86-10-68712208

LOCATION

The 5th INTERNATIONAL SYMPOSIUM ON ROLLER COMPACTED CONCRETE (RCC) DAMS will be held in Guizhou Huaxi Guest House, Guiyang, China on November 2–4, 2007.

Guiyang is the capital of Guizhou Province, located in the southwest of China. Guiyang is a Han Chinese-based multi-ethnic city where, more than 30 other minorities inhabited. It has a simple yet rich folk customs and habits and a splendid culture. Guizhou Huaxi Guest House is located in the southwest of Guiyang, 17km away from the center of the city, and 28km away from the Guiyang Airport.

GENERAL PROGRAM

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 2 (Friday)</td>
<td>Full day</td>
<td>Registration</td>
</tr>
<tr>
<td>Nov. 3 (Saturday)</td>
<td>Morning</td>
<td>Opening Ceremony</td>
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<td></td>
<td></td>
<td>Invited Lectures</td>
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<td></td>
<td></td>
<td>Afternoon Technical sessions</td>
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<td></td>
<td></td>
<td>Evening Welcome Reception</td>
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<tr>
<td>Nov. 4 (Sunday)</td>
<td>Morning</td>
<td>Technical sessions</td>
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<tr>
<td></td>
<td></td>
<td>Afternoon Technical sessions</td>
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<tr>
<td></td>
<td></td>
<td>Evening Farewell Banquet</td>
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<tr>
<td>Nov. 5–8</td>
<td></td>
<td>Post study tour</td>
</tr>
</tbody>
</table>
TECHNICAL TOURS

3 Post technical tours will be arranged after the symposium. Those who will take part in the tours will not only visit some high RCC dams completed, but also visit some RCC dams under construction.

**Tour A: Guiyang-Longtan-Nanning, Nov. 5-8, 4 days, €480/person, Single room supplement €80/person**

*Day 1, Nov. 5 (Monday)*
Depart Guiyang by bus (5 hours), arrive at Longtan Hydropower Plant. Lodging in the construction site of Longtan (H=216.5m).

*Day 2, Nov. 6 (Tuesday)*
Visit Longtan RCC Gravity Dam. Discussions and communications on the site. Lodging in the construction site of Longtan.

*Day 3, Nov. 7 (Wednesday)*
Leave Longtan to Nanning (the capital of Guangxi Autonomous Region) by bus (5 hours), Lodging in Nanning.

*Day 4, Nov. 8 (Thursday)*
Tour ends after breakfast.

**Tour B: Guiyang-Xiuwen County-Silin-Guiyang, Nov. 5-9, 5 days, €640/person, Single room supplement €100/person**

*Day 1, Nov. 5 (Monday)*
Depart Guiyang by bus (1.5 hours), arrive in Xiuwen County. Visit Suofengying RCC Gravity Dam (H=115.8m, completed). Return to Guiyang in the afternoon. Lodging in Guiyang.

*Day 2, Nov. 6 (Tuesday)*
Depart Guiyang by bus (8 hours) to Silin Hydropower Station. Overstay in the Silin Hydropower station.

*Day 3, Nov. 7 (Wednesday)*
Visit Silin RCC Gravity Dam (H=117m, under construction), Lodging in the Silin Hydropower station.

*Day 4, Nov. 8 (Thursday)*
Return to Guiyang. Lodging in Guiyang.

*Day 5, Nov. 9 (Friday)*
Tour ends after breakfast.

**Tour C: Guiyang-Kaiyang County-Silin-Guiyang, Nov. 5-9, 5 days, €640/person, Single room supplement €100/person**

*Day 1, Nov. 5 (Monday)*
Depart Guiyang by bus (2.5 hours), arrive in Kaiyang County. Visit Dahuashui RCC Arch Dam (H=134.5m, completed). Return to Guiyang in the afternoon. Lodging in Guiyang.

*Day 2, Nov. 6 (Tuesday)*
Depart Guiyang by bus (8 hours) to Silin Hydropower Station. Overstay in the Silin Hydropower station.

*Day 3, Nov. 7 (Wednesday)*
Visit Silin RCC Gravity Dam (H=117m, under construction), Overstay in the Silin Hydropower station.

*Day 4, Nov. 8 (Thursday)*
Return to Guiyang. Lodging in Guiyang.

*Day 5, Nov. 9 (Friday)*
Tour ends after breakfast.
REGISTRATION

The Registration Form is enclosed in this bulletin. Participants are expected to complete the registration form and return it to secretariat of LOC as early as possible. Please be notified that registration can only be effective upon receiving both the Registration Form and the payment.

<table>
<thead>
<tr>
<th></th>
<th>Before Sep. 15th, 2007</th>
<th>On or After Sep. 15th, 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participant</td>
<td>€400</td>
<td>€450</td>
</tr>
<tr>
<td>Accompanying Person</td>
<td>€250</td>
<td>€280</td>
</tr>
</tbody>
</table>

The registration fee for the Symposium includes the documentation, simultaneous translation, working lunches, coffees during the breaks, and the participation in the various social activities foreseen. The registration fee for the accompanying persons includes the programmed excursions, the assistance at the sessions of the Opening and Closing of the Symposium, and the participation in the various social activities foreseen.

ACCOMMODATION

Participants will stay in Guizhou Huaxi Guest House, Guiyang, China.
Address: Linyin Road, Huaxi District, Guiyang City, China.
Tel: +86-851-5368000 Fax: +86-851-5368118 Web: www.huaxihotel.com.cn

Room Price in Huaxi Guest House

<table>
<thead>
<tr>
<th>Category</th>
<th>Price per room per night</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single room</td>
<td>€45</td>
</tr>
<tr>
<td>Double room</td>
<td>€53</td>
</tr>
</tbody>
</table>

To make your hotel reservation, please complete the registration form and return it to the Secretariat before Sept. 30, 2007. The hotel booking will be made on the basis of first come, first served. No guarantee for reservations can be made after this date. If you want to share a double occupancy room, please indicate your roommate’s name in the Registration Form.
The Payment method should be marked in the registration Form and returned to the secretariat of the symposium. Registration fee, hotel fee and tour fee should be in EURO Dollars and made payable by the one of following methods.

**PAYMENT IN ADVANCE**

- **Bank Transfer**
  
  Account No.: 000 380 1809 1014  
  Account Name: CICCST/RCC 2007  
  Swift Code: BKCHCNBJ  
  Bank Name: Bank of China Head Office, 1 Fuxingmennei Ave., Beijing 100818, 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.

- **Bank Draft**
  
  Payment to: CICCST/RCC 2007  
  Mail to:  
  Mrs. Yulan Yuan  
  Chinese National Committee on Large Dams  
  20 Chegongzhuang West Road, P.O. Box 366, Beijing 100044, P.R. China  
  Tel: +86-10-68435228 Fax: +86-10-68712208 E-MAIL:chincold@iwhr.com

- **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 EURO or equivalent CNY) and credit card (Visa, Master Card and American Express) will be accepted.
OFFICIAL RECEIPT

All participants will receive a written confirmation from the LOC as soon as their registration form with correct payment have reached the account number mentioned above in form of fax, letter or E-mail. The confirmation letter must be shown on the registration desk upon his/her arrival. A formal receipt will be given at the on-site registration desk.

CANCELLATIONS

Cancellation must be made in writing to the LOC. The refund will be two months after the Symposium.

<table>
<thead>
<tr>
<th></th>
<th>By Sept. 30 2007</th>
<th>After Oct. 1 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Fee</td>
<td>75% refund</td>
<td>50% refund</td>
</tr>
<tr>
<td>Tour Fee</td>
<td>90% refund</td>
<td>70% refund</td>
</tr>
</tbody>
</table>

CORRESPONDENCE ADDRESS

All registration forms, abstracts and correspondence concerning on the 5th international Symposium on RCC dams should be sent to Secretariat as the following,

Ms. Zhongli MA, Mrs. Yulan YUAN
Secretariat of RCC 2007
Chinese National Committee on Large Dams
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