

PROGRAMME of the 6th
International Symposium
on Roller Compacted
Concrete (RCC) Dams

Zaragoza
Spain

23 to 25, October 2012

Organized by



EURDAMS



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DE AGRICULTURA, ALIMENTACIÓN
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Colegio de Ingenieros de
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Tuesday, 23 October

09:00 – 09:30 OPENING SESSION

09:30 – 11:00 SPECIAL CONFERENCES

Chairman: **L. Berga (Spain)**

- **RCC DAMS IN SPAIN. J.C. de Cea (Spain)**
- **RCC AND CMD DAMS IN CHINA. JIA Jinsheng (China)**
- **NEW DEVELOPMENTS IN RCC DAMS. M.H.R. Dunstan (United Kingdom)**

11:00 – 11:30 OPENING OF THE TECHNICAL EXHIBITION

11:00 – 11:30 COFFEE BREAK

11:30 – 13:15 SESSION I. NEW DEVELOPMENTS IN RCC DAMS

Chairman: **F. Hijós (Spain)**

Co-Chairman: **Jl Guojin (China)**

PRESENTATION OF ORAL COMMUNICATIONS

- **EXPERIENCES WITH RCC DAMS IN MEXICO. F. I. Arreguin-Cortes, R. Murillo-Fernández (Mexico)**
- **RECENT DEVELOPMENT IN RCC DAMS TECHNOLOGY IN MOROCCO. A.F. Chraibi (Morocco)**
- **CONSTRUCTION OF AN RCC DAM IN A VERY WET CLIMATE. J. Waters, D. Cameron-Ellis, M.R.H. Dunstan, L. Houlberg, C. Hicks (Australia)**
- **DIAMER BASHA DAM STATUS & POTENTIAL RCC MIXES. E. Schrader, I.U. Haq, M. Arshad Pervez (United States)**
- **GUANDI HIGHLY RCC GRAVITY DAM – CHALLENGES, SOLUTIONS AND LESSONS. Chen Qiang, Hu Xiao-Hong, Zhao Yong-Gang, Zhang Lian-Ming, Yuan Qion (China)**
- **PORTUGUES DAM: CHALLENGES AND SUCCESS IN FOUNDATION DOCUMENTATION AND TREATMENT. S. Myers, J. Conway (Puerto Rico)**
- **STRUCTURAL FEATURES OF GOMAL ZAM RCC ARCH-GRAVITY DAM. Chongjiang Du (Alemania)**
- **RCC DAM WATER-PROOFING BY MEANS OF HIGH PRESSURE POLYMER INJECTIONS COMPARED TO WATER-PROOF MEMBRANES. A. Gonzalo (Spain)**
- **NEW TECHNOLOGY ON VERTICAL CONVEYANCE OF CONCRETE BY FULL-BIN SYSTEM IN GUANGZHAO DAM PROJECT. Wu Xiurong, Chen Zurong (China)**
- **THE USE OF 400 MM RCC LIFTS IN THE ENLARGED COTTER DAM. P. Buchanan, D. Nott, B. Egalat, B. Forbes (Australia)**

13:15 – 14:15 LUNCH

14:15 – 16:00 SESSION 2. PLANNING AND DESIGN (PART I)

Chairman: **J. Yagüe (Spain)**

Co-Chairman: **ZHENG Cuiying (China)**

PRESENTATION OF ORAL COMMUNICATIONS

- **DISCUSSIONS ON DESIGN PRINCIPLE FOR SUPER HIGH GRAVITY DAMS BASED ON SIMULATION TEST OF HYDRAULIC FRACTURING. Jia Jinsheng, Wang Yang, Feng Wei, Chang Qingrui (China)**
- **HRB WALDBÄRENBURG: FIRST RCC DAM EXPERIENCE IN GERMANY. B. Lange, F. Hering, R. Schlegel, G. Leyendecker, F. Ortega (Germany)**
- **INFLUENCE OF DIFFERENT LAYER THICKNESS AND INTERMITTENT TIME ON HIGH RCC GRAVITY DAM TEMPERATURE STRESS. Li Song-Hui, Zhang Guo-Xin, Liu Yi (China)**
- **JOINT VISION BY DESIGNER AND CONTRACTOR FOR THE DESIGN OF AN RCC DAM. L. Canale, Ö. Özen, E. Eroğlu (Switzerland)**
- **MAIN DESIGN FEATURES OF A RCC GRAVITY DAM IN PORTUGAL. A. Camelo, N. Antunes, D. Botelho (Portugal)**

- MINIMUM REQUIREMENTS FOR THE FOUNDATION OF RCC DAMS IN BORDER-LINE TERRAINS. *M. Romana (Spain)*
- MOVING SUCCESSFULLY FROM A CONVENTIONAL CONCRETE INTO AN RCC DESIGN FOR PORTUGUES DAM. *P. Vázquez, A. Gonzalez (Puerto Rico)*
- NONLINEAR BEHAVIOUR OF A ROLLER COMPACTED CONCRETE DAM UNDER STRONG EARTHQUAKE. *D. Grenier, A. Si-Chaib, A. Alami (France)*
- SIMULATION OF TEMPERATURES AND STRESSES DURING CONSTRUCTION OF A RCC DAM. *L..M. Lacom, J. Rodriguez, J. Marti, F. Martinez (Spain)*
- STUDYING THE EFFECT OF STARTING TIME OF CONCRETE ON THERMAL RESPONSE OF ROLLER COMPACTED CONCRETE DAM. *M. Esmailnia Omran, Z. Ghadiri (Iran)*

16:00 – 16:30 COFFEE BREAK

16:30 – 18.00 SESSION 2. PLANNING AND DESIGN (PART 2)

Chairman: *J. Yagüe (Spain)*

Co-Chairman: *ZHENG Cuiying (China)*

PRESENTATION OF ORAL COMMUNICATIONS

- DESIGN OF FOUNDATION REMEDIATION FOR A RCC DAM. *E. Yildiz, A. Fikret Gürdil (Turkey)*
- THE DEVELOPMENT OF THE DESIGN OF CHANGUINOLA I DAM. *G. Erlendsson, D. Cameron-Ellis, Q.H.W. Shaw, M.R.H. Dunstan (Denmark)*
- THE FOUNDATION OF HARDFILL DAMS. EFFECTS OF SEISMICITY. *M. Romana, A.R. Martinez-Sidera (Spain)*
- THE INFLUENCE OF LOW STRESS-RELAXATION CREEP ON LARGE RCC ARCH & GRAVITY DAM DESIGN. *Q. Shaw (South Africa)*
- THERMAL RESPONSE OF RCC DAMS CONSIDERING THE EFFECT OF RESERVOIR FILLING SCHEDULE. *P. Khanzaei, F. Hejazi, A.A. Abdulrazeg, M. Saleh Jaafar, T. Ahmed Mohammed (Malaysia)*
- THREE RECENT GEOMEMBRANE PROJECTS ON NEW RCC DAMS. *A. Scuro, G. Vaschetti (Switzerland)*
- STUDY AND APPLICATION OF IMPROVED EQUIVALENT STRESS OF FINITE ELEMENT METHOD OF GRAVITY DAMS. *Yang Huichen, Jia Jinsheng, Zheng Cuiying (China)*
- DE HOOP DAM: SOUTH AFRICAN RCC ADVENTURES. *H.J. Wright, J. Van Zyl (South Africa)*

18:00 – 18:30 LECTURE

- INNOVATIONS IN RCC DAMS. *B. Forbes (Australia)*

20:30 WELCOME DINNER

Wednesday, 24 October

09:00 – 09:30 LECTURE

- RCC AS DAM CONSTRUCTION MATERIAL. *R. Ibáñez de Aldecoa (Spain)*

09:30 – 11.00 SESSION 3. MATERIAL AND MIXTURES (PART I)

Chairman: *A. Zaragoza (Spain)*

Co-Chairman: *F. Delorme (France)*

PRESENTATION OF ORAL COMMUNICATIONS

- ACCELERATE CURING TEST: HISTORY. DEVELOPMENT AND APPLICATIONS. *J. E. López, E. Schrader (Colombia)*
- APPLICATION RESEARCH ON LOW HEAT AND HIGH PERFORMANCE HYDRAULIC MASS CONCRETE. *Zhang Xihe, Yang Jindi, Tan Jianjun (China)*
- CHANGES IN THE WORLD ECONOMY INFLUENCES THE CHOICE OF CEMENTITIOUS MATERIALS AT CHANGUINOLA I. *E. Lose, M.R.H. Dunstan (Denmark)*

- CHOICE OF POZZOLANS FOR USE IN THE CEMENTITIOUS CONTENT OF LARGE RCC DAMS. *U Myint Zaw, Ondrej Voborny, Nguyen Hong Ha, David Morris, M.R.H. Dunstan (Burma)*
- RAW MATERIALS SELECTION AND RCC MIXTURE OPTIMIZATION IN EL PUENTE DE SANTOLEA'S DAM. *J. Gracia, M. Cabedo (Spain)*
- EXPERIENCE MADE WITH RETARDER ADMIXTURES AT TWO RCC DAMS IN MYANMAR. *U Myint Zaw, U Zaw Min San, S.L.L. Cowie, C. Rohrer (Burma)*
- FEASIBILITY STUDY OF USING ONE PORTION OF AGGREGATE IN KAHIR RCC DAM. *M. Shahgholi, M. Jafarbegloo, M.R. Hajialikhani (Iran)*
- LIMESTONE FILLER USED AS MINERAL ADMIXTURE IN THE RCC MIX FOR LA BREÑA II DAM (SPAIN). *R. Ibáñez de Aldecoa, G. Noriega, F. Romero, A. Sandoval, M. Sanz (Spain)*
- MIXTURE DESIGN AND OPTIMIZATION OF RCC OF GUAN-DI HYDROPOWER STATION. *Chenlei Nieqiang (China)*

11:00 – 11:30 COFFEE BREAK

11:30 – 13:15 SESSION 3. MATERIAL AND MIXTURES (PART 2)

Chairman: **A. Zaragoza (Spain)**

Co-Chairman: **F. Delorme (France)**

PRESENTATION OF ORAL COMMUNICATIONS

- PRACTICE OF HIGH-INTENSITY BASALT GRAVEL AGGREGATE PRODUCTION SYSTEM IN GUANDI HYDROPOWER STATION. *Zhao Yunliang, Zhang Chaofeng (China)*
- RCC MIX DESIGN DEVELOPMENT FOR ENCISO DAM. *M. Allende Álvarez, D. Cruz García, F. Ortega Santos (Spain)*
- RCC MIXTURES FORMULATION FOR TABELLOUT DAM. *M. Khalfallah, A. Si-Chaib, K. Mokrani (France)*
- RCC TRIAL MIX PROGRAMME FOR THE LAI CHAU GRAVITY DAM – HIGH CEMENTITIOUS CONTENT RCC WITH VERY LOW CEMENT CONTENTS. *Nguyen Pham Hung, M. Conrad, D. Morris, M.R.H. Dunstan (Vietnam)*
- RESULTS OF MIX DESIGNS IN ZIRDAN RCC DAM. *M. Jafarbegloo, M.R. Hajialikhani (Iran)*
- RIZZANESE RCC DAM : USE OF LOW COST RCC IN A THICK CROSS SECTION. *F. Delorme, A. Lochu, R. Valon (France)*
- THE EXPERIMENTAL ANALYSIS OF ALKALI-CARBONATE REACTIONS ON RCC DAMS IN IRAN. *N. Tavakoli Shirazi, G. Hossein Akbari (Iran)*
- THE LOW STRESS RELAXATION CREEP CHARACTERISTICS OF FLYASH-RICH RCC. *Q.H.W. Shaw, M.R.H. Dunstan (South Africa)*
- THE OPTIMIZATION OF THE RCC MIX DESIGN OF THE SPRING GROVE DAM IN SOUTH AFRICA. *J. Nyakale, D.B. Badenhorst, F. Ortega Santos (South Africa)*
- USE OF A HIGH SHRINKAGE AGGREGATE IN A NEW RCC DAM. *D. Nott, B. Forbes, D. Brigden (Australia)*

13:15 – 14:15 LUNCH

14:15 – 16:00 SESSION 4. CONSTRUCTION AND QUALITY

CONTROL (PART I)

Chairman: **WU Shiyong (China)**

Co-Chairman: **R. Lafuente (Spain)**

PRESENTATION OF ORAL COMMUNICATIONS

- DIGITAL MONITORING SYSTEM AND APPLICATION ON LUDILA PROJECT. *Zhang Guo-Xin, Li Song-hui, Liu Yi (China)*
- FEEDBACK ANALYSIS ON CAUSES AND MECHANISM OF CRACK FORMATION AND EFFECTS OF TEMPERATURE CONTROLLING AND CRACK PROTECTING DURING CONSTRUCTION OF RCC DAMS. *Liu Youzhi, Xu Bo, Zhang Guo-Xin, Shi Ziming, Liu Tao (China)*
- INVESTIGATION OF DIFFERENT PARAMETERS ON SHEAR STRENGTH AND PERMEABILITY OF CONSTRUCTION JOINTS. *Mokhtar Pouryani, F. Ghadermazy, H.R. Araghyan, Sh. Mahzarnya (Iran)*
- QUALITY CONTROL IN ZIRDAN RCC DAM. *M. Jafarbegloo, M.R. Hajialikhani (Iran)*

- DEVELOPMENT OF THE RCC FOR MIDDLE VAITARNA DAM, INDIA. *V.B. Astankar, G.V. Rao, S. Mane, M.R.H. Dunstan (India)*
- RCC DAM CONSTRUCTION QUALITY CONTROL – NUCLEAR GAUGE DENSIMETER CALIBRATION. *J.E. López, E. Schrader (Colombia)*
- USE OF A GEOGRAPHIC INFORMATION SYSTEM AS A TOOL DURING THE CONSTRUCTION OF THE PIRRIS RCC DAM IN COSTA RICA. *D. Núñez Morales, F. Ortega Santos (Costa Rica)*
- A UNIQUE CEMENT AND FLY ASH SUPPLY SYSTEM FOR THE CHANGUINOLA I PROJECT IN PANAMA. *A. Lighthart, C. Hicks (Holland)*
- ASSESSMENT OF RCC CONSTRUCTION METHODOLOGY BETWEEN YEYWA AND UPPER PAUNGLAUNG RCC DAMS IN MYANMAR. *U Myint Zaw, U Zaw Min San, S.L.L. Cowie, C. Rohrer (Burma)*

16:00 – 16:30 COFFEE BREAK

16:30 – 18:30 SESSION 4. CONSTRUCTION AND QUALITY CONTROL (PART 2)

Chairman: **WU Shiyong (China)**

Co-Chairman: **R. Lafuente (Spain)**

PRESENTATION OF ORAL COMMUNICATIONS

- CHARACTERIZATION AND QUALITY CONTROL OF RCC DAM PRESA DEL PUENTE (TERUEL, SPAIN). *J. Arroyo Alonso, L. Fernández Almiñana, A. Sánchez Lallana (Spain)*
- CONSTRUCTION OF PIRRÍS RCC DAM IN COSTA RICA. *I. Arguedas Gamboa, A. Rivera Hernández, F. Ortega Santos (Costa Rica)*
- CONSTRUCTION TECHNOLOGY OF RCC DAM COMPOSED OF SANDSTONE AGGREGATE IN TROPICAL RAINFOREST. *Zhu Hong bin, Yang Bai hua, Fu Jian ping, Cui Dan (China)*
- DESIGN AND BUILD OF RIZZANESE RCC DAM. *A. Lochu, F. Delorme, P. Carlioz (France)*
- DESIGN AND CONSTRUCTION OF NAKAI RCC DAM, LAOS. *G. Stevenson, R. Douglas, M. Matsuzaki (Canada)*
- DYNAMIC CONSTRUCTION SIMULATION OF HIGH ROLLER COMPACTED CONCRETE DAM. *Denghua Zhong, Haotian Chang, Mingchao Li (China)*
- EL PUENTE DE SANTOLEA'S DAM EXPERIENCE. *M. Cabedo, B. Roldán, J.I. López (Spain)*
- RAPID CONSTRUCTION TECHNOLOGY OF GUANDI RCC GRAVITY DAM. *Zhao Yunliang, Zhang Chaofeng (China)*
- ENCISO DAM: GEOLOGICAL AND GEOTECHNICAL CONSTRAINTS OF THE FOUNDATION. CONSOLIDATION TREATMENT. *M. Allende Álvarez, D. Cruz García, A. Soriano Martínez, A. Andrino Sigilo, D. Chuliá Sanz (Spain)*

18:30 – 19:00 SPECIAL CONFERENCE

- LESSONS LEARNED AND INNOVATIONS FOR EFFICIENT RCC DAMS. *F. Ortega (Spain)*

20:30 SOCIAL EVENT

Thursday, 25 October

09:00 – 11:00 SESSION 4. CONSTRUCTION AND QUALITY

CONTROL (PART 3)

Chairman: **P. Vazquez-Ruiz (Puerto Rico)**

Co-Chairman: **YANG Baihua (China)**

PRESENTATION OF ORAL COMMUNICATIONS

- LESSONS LEARNED IN ZIRDAN RCC DAM. *M.R. Hajjalikhani, M. Jafarbegloo (Iran)*
- NOT ONLY SIZE MATTERS CONSTRUCTING NAKAI RCC DAM FOR NAM THEUN 2 PROJECT IN LAOS. *A. Rousselin, F. Delorme, B. Taquet (France)*
- PRACTICAL EXPERIENCES FOR CONSTRUCTION OF RECENT RCC DAMS IN IRAN CONSIDERING ADVANCED TECHNOLOGIES. *A. Dolatkahi, R. Peyrovdin, M. Navidi Kashani, S. Mahzarnia (Iran)*
- RCC DAM CONSTRUCTION – CONVEYORS OR TRUCKS. *J.E. López, E. Schrader, L. Gaekel (Colombia)*
- RCC DAM CONSTRUCTION TECHNIQUE INNOVATION OF JINANQIAO HYDROPOWER STATION ON JINSHAJIANG RIVER. *Li Xianzhen (China)*
- RCC DAMS BUILT BY SPANISH CONSTRUCTION COMPANIES ABROAD. *A. Capote del Villar, R. Ibáñez de Aldecoa, V. Flórez Casillas (Spain)*
- APPLICATION OF RCC DAM CONSTRUCTION TECHNIQUE IN XIANGJIABA HYDROPOWER STATION. *Gao Peng, Mei Xuedong, Peng Gang, Wang Yi (China)*
- REVIEW OF THE CONSTRUCTION OF THE SON LA RCC DAM. *Nguyen Hong Ha, Marco Conrad, David Morris (Vietnam)*
- SCENARIO OF RCC DAMS IN MEXICO. *A. Garduño Gallo, M.A. Montero Catalán (Mexico)*
- LONGITUDINAL JOINT BEHAVIOR IN A TWO STAGE CONSTRUCTION OF CASTANHÃO DAM. *W. Jardim, M. Pinto (Brasil)*

11:00 – 11:30 COFFEE BREAK

11:30 – 12:45 SESSION 4. CONSTRUCTION AND QUALITY

CONTROL (PART 4)

Chairman: **P. Vazquez-Ruiz (Puerto Rico)**

Co-Chairman: **YANG Baihua (China)**

PRESENTATION OF ORAL COMMUNICATIONS

- STUDY ON EXISTING PROBLEMS AND COUNTERMEASURES OF ROLLER COMPACTED. *Dong Hao-Wen, Tang Shun-Cheng, Ji Wei (China)*
- IMMERSION VIBRATED RCC (IVRCC) FIRST WORLD EXPERIENCE AT DE HOOP RCC DAM IN SOUTH AFRICA. *J.F. van Niekerk, J. van Niekerk, F. Ortega Santos (South Africa)*
- CONSTRUCTION OF GUANDI RCC DAM. *Shiyong Wu, Shangyuan Yan, Lei Yao, Dan Zhao, Fugang He (China)*
- THE SPECIFICATION OF THE EFFECTIVE METHOD FOR DEMOLITION OF HARDENED ROLLER COMPACTED CONCRETE (RCC) USED IN KERMAN GHADROUNI DAM. *M. Abbasi, M.R. Jamshidi Jam (Iran)*
- DESIGN AND CONSTRUCTION ADVANTAGES OF HARDFILL SYMMETRICAL DAMS - CASE STUDY: SAFAF DAM IN EASTERN ALGERIA. *T. Guillemot, M. Lino (France)*
- NEW PROGRESS OF CEMENT-SAND-GRAVEL DAMMING IN CHINA. *Wu Xuirong, Chen Zhen Hua, Lin Shengzhu (China)*
- STUDY ON DESIGN OF MIXING PROPORTION FOR CEMENTED SAND AND GRAVEL (CSG). *Feng Wei, Jia Jinsheng, Ma Fengling (China)*
- CRACKING PREVENTION OF GUANDI RCC GRAVITY DAM. *Li Guoshan, Zhu Haixia, Zhao Yong-Gang, Zhang Lian-Ming (China)*
- FINAL DESIGN OF A 135-M HIGH RCC DAM IN VENEZUELA. *F. Ortega Santos, C. Granell, A. Soriano, A. Andres, A. Bello, A. Hitcher (Germany)*

12:45 – 13:15 LECTURE

- PERFORMANCE OF RCC DAMS. *E. Schrader (United States)*

13:15 – 14:15 LUNCH

14:15 – 16:00 SESSION 5. PERFORMANCE AND MONITORING

Chairman: **A. Soriano (Spain)**

Co-Chairman: **SUN Yuelin (China)**

PRESENTATION OF ORAL COMMUNICATIONS

- DAM SAFETY MONITORING TO ASSESS VAL DAM BEHAVIOR. *R. Gómez López de Munain, J. Merino Vidruero, M. G. de Membrillera Ortuño (Spain)*
- EVALUATION OF SAFETY AND STRUCTURAL STABILITY OF JEGIN RCC DAM DURING OPERATION PERIOD. *M. Esmailnia Omran, H. Mahdiloo Torkamani (Iran)*
- MONITORING MODEL FOR DISPLACEMENT FIELD OF RCCD. *Chen Xudong, Gu Chongshi, Xu Baosong (China)*
- PROPOSING A STANDARDIZED APPROACH TO STRESS-STRAIN INSTRUMENTATION FOR RCC DAMS. *M. Conrad, Q.H.W. Shaw, M.R.H. Dunstan (Switzerland)*
- QUANTITATIVE MICROCRACK ANALYSIS OF RCC SUFFERED DIFFERENT FREEZING-THAWING DAMAGE DEGREES BY DIP TECHNIQUE. *Shuguang Li, Wei Feng, Juntao Tian, Gaixin Chen, Yihui Lu (China)*
- SEEPAGE ANALYSIS OF GUANGZHAO RCC GRAVITY DAM. *Xiaohui Qian, Hao Yang, Lin Luo (China)*
- THE SUMMARY OF SAFETY MONITORING AND OPERATION ABOUT RCC GRAVITY DAM IN CHINA. *Du Xiaokai, Zhao Quansheng, Dang Lincui (China)*
- THE TENSILE STRENGTH OF RCC FOR DAMS. *T.P. Dolen, M.R.H. Dunstan (United States)*
- THERMAL INDUCED CRACKING PERFORMANCE OF RCC DAMS. *K.D. Hansen, B.A. Forbes (United States)*

16:00 – 16:30 COFFEE BREAK

16:30 – 18:00 SESSION 6. OTHER APPLICATIONS OF RCC

Chairman: **K. Hansen (United States)**

Co-Chairman: **J.M. Buil (Spain)**

PRESENTATION OF ORAL COMMUNICATIONS

- RCC USE IN COFFERDAMS. *K.D. Hansen, D.L. Johnson (United States)*
- LESSON LEARNED – MORE THAN 100 RCC OVERTOPPING SPILLWAYS IN THE UNITED STATES. *R.P. Bass, T. Fitzgerald, K.D. Hansen (United States)*
- SOME KEY EXPERIENCES ON THE RCC COFFERDAM CONSTRUCTION OF THE THREE GORGES PROJECT. *Chen Xianming, Li Jinghua, Xiong Jihong (China)*
- RCC IN SMALL PROJECTS. *L. Pinilla B. (Chile)*
- HYDRAULIC SCALE MODEL OF A 50 METERS HIGH STEPPED SPILLWAY ON A RCC DAM IN THE SULTANATE OF OMAN. *P.E. Loisel, P. Jehanno, C. Guilbaud, S. Al Hadhrami (France)*
- STEPPED SPILLWAYS WITHOUT SIDEWALLS: SCALE MODEL STUDY. *S. Estrella, M. Sánchez-Juny, J. Pomares, J. Dolz, R. Ibáñez de Aldecoa, M. Domínguez, J. Rodríguez, L. Balairón (Spain)*
- STUDY ON UNDERFLOW ENERGY DISSIPATION TECHNOLOGY OF HIGH RCCD FLOOD DISCHARGE. *Peng Wen-ming, Zhang Lian-ming, Zhao Yong-gang, Hu Xiao-hong (China)*
- THE HIGHEST RCC DAM IN THE LAO P.D.R. -INTRODUCTION OF NAM NGIEP I HYDROPOWER PROJECT- *N. Kita, T. Kamachi, M. Asakawa, T. Tada (Afghanistan)*

18:00 – 18:30 CLOSING SESSION

AWARDS CEREMONY: INTERNATIONAL MILESTONE PROJECTS

18:30 FAREWELL COCKTAIL

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