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**International Scientific Symposium on**

**Water Resource Management and Comprehensive Reclamation of River Basins**

Nanjing, China 10-12 November 2017

**Organized by:**

**Hohai University**, College of Hydrology and Water Resources, State Key Laboratory of Hydrology-Water resources and Hydraulic Engineering

**Chinese Academy of Sciences**, Nanjing Institute of Geography and Limnology, Key Laboratory of Watershed Geography

**Chang’an University**, School of Environmental Science and Engineering, Key Laboratory of Subsurface Hydrology and Ecological Effects in Arid Region，Ministry of Education

**Co-organized by:**

**Beijing Normal University**, Key Laboratory of Environmental Change and Natural Disaster, Ministry of Education

**Operated by:**

**Hohai University**

**Chinese Academy of Sciences**, Nanjing Institute of Geography and Limnology

**Background:**

With recent global climate change, increased human activities, and rapid socioeconomic development, many counties including China in the world have been facing new situations on water security and water resources management. Regional to global water cycles have been disturbed and altered more or less. Many countries have been facing a variety of water resource challenges and water problems. To conquer these challenges, understanding how water cycles are changing and gaining accurate information on water resources are the critical first step. Developing new methods and technologies of water resources management are also imperative. Studies in these areas are critical for securing water security and sustainable development for counties like China.

Meanwhile, water quality degradation is becoming increasingly acute problem in many regions of the world. Water pollution caused by insufficiently treated or untreated wastewater, inappropriate solid waste management, intensive use of fertilizers and pesticides in agriculture, and land use changes continue to threaten human health and the environment. Urbanization and human built-up construction have also largely altered the natural conditions of many watersheds, leading to a number of issues such as urban flooding and waterlogging, water quality degradation and river ecosystems destruction. All these issues have been widely recognized and drawn a lot of attention. Restoration and reclamation of river basins are gradually practiced in many counties.

Hence, there is an urgent need to summarize the latest progress on watershed water resources management and comprehensive reclamation of river basins. Further studies on these areas need be enhanced. Immediate action and initiatives include: the sharing and dissemination of scientific knowledge and advanced technologies to enhance both scientific and technical capacities; development of new scientific, technologic and policy tools; better data and information integration and standardization; raising awareness and participation of all relevant stakeholders, such as policy makers, scientists and citizens; and developing and strengthening a network of knowledge and experience sharing on water resource management and river restoration at national, regional and global levels.

**Objectives:**

The symposium aims to promote the sharing and exchange of the state-of-the-art scientific knowledge, technologies, methods and policy approaches to watershed water resources management and comprehensive reclamation of river basins. Its overarching goal is to enhance scientific capacities of counties towards high efficient water resources utilization and effective management and sustainable development, and to advance knowledge and technologies for reclamation of river basins.

**Topics:**

1. **Water observation and information technologies and methods**
* Radar and Satellite quantitative precipitation estimation techniques
* Remote sensing of Evapotranspiration
* Remote sensing of Soil Moisture
* Remote sensing of hydrological process
* Water survey tools and techniques
* Recent progress of hydroinformatics
* Automated hydrological information monitoring technology and equipment
* Hydrological modeling
1. **Watershed sustainability and water resources**
* Water related disasters
* Flood inundation and flood prevention management
* Water quality monitoring and assessment
* Climate change and water cycle change
* Water sustainable environment
* Changes of water cycle mechanism in Basin under changing environment
* Uncertainty of global and regional water resources
* Long-term forecasting technique of hydrology and water resources
* Methods and techniques of efficient utilization of water resources
* Theory of water resources management and method for facing with changing environment
1. **Urban water environment and aquatic ecology**
* Pollution control for water resource
* Ecohydrology and limnology
* Ecological trends in watershed
* Urbanization-introduced water problems
* Theories and methods for sponge city construction
* Water environment and water ecology monitoring
* Method of Municipal Wastewater Treatment Based on Nano and Biotechnology
1. **Comprehensive reclamation of river basins and innovative management**
* Water Informatics
* Water resource management and policy
* New technologies for sustainable development
* Watershed wastewater and eutrophication processing
* River and watercourse repair
* Watershed development programming

**Scientific Steering Committee:**

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|  | Qing liu, Hohai University, College of Hydrology and Water Resources |

**Registration Fees:**

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|  | **Early Payment** | **Late Payment** |
| Student Registration Fees (Lunch, coffee, and welcome dinner included) | 600 CNY | 800 CNY |
| Student Registration Fees (Lunch, coffee, and welcome dinner included) | 1000 CNY | 1200 CNY |

**Venue:**

Wentian Hall of Hohai University

**Abstract Submission:**

All abstracts including title, author list, affiliations, and contact information should be emailed to kzhang@hhu.edu.cn or lpp@chd.edu.cn.

**Important Dates:**

Call for abstracts: 1 August 2017

Deadline for abstract submission: 15 September 2017

Approval for abstracts and notification: 18 September 2017

Early registration and accommodation open: 1 September 2017

Deadline for early registration: 15 October 2017

On-site registration: 10-11 November 2017

**Conference Schedule:**

10-11 November 2017 On-site Registration all day

11 November 2017 morning Opening Ceremony and Theme Talks

12 November 2017 afternoon sub forum and visit

**Contact information:**

**Hohai University, College of Hydrology and Water Resources**

Professor Weiguang Wang

E-mail:wangweiguang@hhu.edu.cn

Professor Ke Zhang

E-mail: kzhang@hhu.edu.cn

Professor Peng Shi

E-mail: ship@hhu.edu.cn

**Chang’an University, School of Environmental Science and Engineering**

Professor Pingping Luo

Email: lpp@chd.edu.cn

Lecturer Meimei Zhou

Email: mmzhou@chd.edu.cn

**Nanjing Institute of Geography and Limnology, CAS**

Professor Bin He

Email: hebin@niglas.ac.cn

Assistant Professor Weili Duan

Email: duan.scut.cn@gmail.com

Assistant Professor Huawu Wu

Email: hwwu@niglas.ac.cn