

8th International Symposium on Integrated Water Resources Management IAHS-ICWRS, Beijing, 2018



Innovative Water Resources Management in a Changing Environment – Understanding and Balancing Interactions between Humankind and Nature

CONFERENCE BROCHURE

Organized by

International Association of Hydrological Sciences (IAHS)
International Commission on Water Resources Systems (ICWRS)

Co-organized with

Chinese National Committee for IAHS

College of Water Sciences, Beijing Normal University

Beijing Key Laboratory of Urban Hydrological Cycle and Sponge City Technology



June 13~15, 2018

Beijing, China

1. Object and Themes

The 8th International Symposium on Integrated Water Resources Management (IWRM2018), "Innovative water resources management in a changing environment – understanding and balancing interactions between humankind and nature" will bring together experts and scholars from different countries and regions to present their researches, and discuss related issues of innovative water resources management. This symposium, the eighth event of the series of IWRM conferences organized by IAHS-ICWRS (International Commission on Water Resources Systems, International Association of Hydrological Sciences), is focused on the innovative and integrated management of water resources.

Over centuries, various kinds of water resources systems have been developed to support efficient uses of water resources for humankinds worldwide. Such systems were mainly used to supply water for irrigation, industry and domestic uses. The history of water resources systems is part of the history of humankind itself. The history of water resources systems is part of the history of IAHS. Efficient adaptation requires gaining a forward vision on future water demands and water availability as well as an improved understanding of the fragility of water resources and water related ecosystems. A deep understanding of the two-way interaction between nature and humankinds is needed to develop such vision.

This fact requires innovative approaches in:

- 1) Assessments of available water resources at regional and basin scales
- 2) Ecological baseflow/Environmental runoff requirements to ensure a good ecological quality of rivers and lakes
- 3) Spatiotemporal distribution of water resources availability
- 4) Requirements for water of a healthy society
- 5) Water resources management under changing environment

2. Topics

The topics of the symposium include, but not limited to:

- 1) Assessment of available water resources at regional and basin scales
- 2) Ecological baseflow/Environmental flow to keep the health of rivers and lakes
- 3) Spatiotemporal distribution of water resources availability
- 4) Water needs for the healthy society
- 5) Impact of climate change and human activities on water resources
- 6) Water resources allocation and management models
- 7) Interactions between water resources and ecosystem

- 8) Socio-hydrology as the basis of water resources management
- 9) Risk analysis for water resources systems, and
- 10) Related issues

3. Scientific Committee

Chairman:

Changming Liu, Academician, Chinese Academy of Sciences, Beijing Normal University

Members: (alphabetical order)

Adrian Collins – UK

Alberto Montanari – Italy

Alberto Viglione - Austria

Andreas Schumann – Germany

Barry Croke – Australia

Christophe Cudennec – France

Dan Rosbjerg – Denmark

Dawen Yang - China

Fanghua Hao - China

Gil Mahe - France

Giuliano di Baldassarre – Sweden

Günter Blöschl – Austria

Hao Wang - China

Hubert Savenije – The Netherlands

Jianyun Zhang - China

Jun Xia – China

Junguo Liu - China

Liliang Ren - China

Magdalena Rogger - Austria

Murugesu Sivapalan – USA

Pierre Hubert – France

Shenglian Guo - China

Wouter Buyaert – UK

Xiaohong Chen - China

Yangbo Chen – China

Zhiyu Liu – China

4. Local Organizing Committee

Chairman:

Dr. Zongxue Xu

Distinguished Professor, College of Water Sciences, Beijing Normal University

Director, Beijing Key Laboratory of Urban Hydrological Cycle and Sponge City Technology

Secretary General

Dr. Dingzhi Peng, Associate Professor, College of Water Sciences, Beijing Normal University

Members:

Dr. Bo Pang, Associate Professor, College of Water Sciences, Beijing Normal University

Dr. Wenchao Sun, Associate Professor, College of Water Sciences, Beijing Normal University

Dr. Depeng Zuo, Associate Professor, College of Water Sciences, Beijing Normal University

5. Time and Location

Time: June 13~15, 2018

Location: 3rd Floor, Jingshi Hotel, Beijing Normal University

Time		Location	Content
June 12	14:00~20:00	Lobby, Jingshi Hotel	Registration
	9:00~9:30	Meeting Room 6	Opening Ceremony
	9:30~11:30	Wiccing Room o	Loucks Lecture
	11:30~12:00	Jingshi Square	Group photo
June 13	13:30~15:30	Meeting Room 6	Keynote Speech (Main Session)
	16:00~17:50	SP1: Meeting Room 6 SP2: Meeting Room 1 SP3: Meeting Room 5	Parallel Session
	8:30~10:00		
June 14	10:30~11:50	SP1: Meeting room 6 SP2: Meeting room 1	Parallel Session
	14:00~15:20	SP3: Meeting room 5	Turumer Session
	16:00~17:40		
June 15	8:30~10:20	SP1: Meeting room 6 SP2: Meeting room 1 SP3: Meeting room 5	Parallel Session
	10:30~11:30	Meeting Room 6	Closing Ceremony
	13:30	Lobby, Jingshi Hotel	Field Trip

SP1: Water resources management under changing environment

SP2: Socio-hydrology as the basis of water resources management

SP3: Assessment of available water resources at regional and basin scales

6. Oral Program

	13 June, Wednesday. Meeting Room 6, 3 rd Floor, Jingshi Hotel			
	OPENING (Chairperson: Zongxue Xu)			
9:00~9:30	Addressed by Fanghua Hao , Vice President, Beijing Normal University Addressed by Zhiyu Liu , Secretary-general, Chinese National Committee for IAHS Addressed by Andreas Schumann , President, IAHS-ICWRS			
	LOUCKS LECTURE (Chairperson: Zongxue Xu)			
9:30~10:10	Integrated water resources management in China: Case study for the South-North Water Transfer Project Changming Liu, Beijing Normal University			
10:10~10:50	How to control overpumping of aquifers? Kinzelbach Wolfgang, ETH Zurich			
10:50~11:30	Trans disciplinary approach for scientific knowledge-based decision making in water-related disaster management Kuniyoshi Takeuchi , University of Yamanashi			
11:30~12:00	Group photo (Jingshi Square)			
	KEYNOTE SPEECH (Chairperson: Zhiyu Liu)			
13:30~14:10	Optimal adaptation to extreme rainfalls under climate change Dan Rosbjerg, Danmarks Tekniske Universitet			
14:10~14:50	Developing strategy of eco-hydrology in China Jun Xia , Wuhan University			
14:50~15:30	Spatial aspects within water management systems Andreas Schumann, Ruhr-Universität Bochum			
	Coffee Break			
	Parallel Sessions (Meeting Room 1, 5 and 6, 3 rd Floor, Jingshi Hotel)			
	Session 1 (Meeting Room 6, 3 rd Floor, Jingshi Hotel)			
	PRESENTATIONS (Chairperson: Andreas Schumann/Qingyun Duan)			
16:00~16:30	Effects of low impact development practices on urban flooding under different rainfall intensities Xiaohong Chen , Sun Yat-sen University (Invited)			
16:30~16:50	Guidelines for rainwater harvesting system design for the City of Johannesburg, South Africa John Ndiritu, Adesola Ilemobade, Paulo Kagoda			
16:50~17:10	Resource conservation and pollution reduction in the context of global food trade and agricultural intensification Wenfeng Liu, Hong Yang			
17:10~17:30	IWRM in a transnational setting – three case studies from the eastern periphery of the European Union Thomas Pluntke, Sergey Chalov, Yuri Nabyvanets, Daniel Karthe, Björn Helm, Christian Bernhofer			
17:30~17:50	Consumption-based accounting of global grey water footprint Xu Zhao, Yiping Li, Martin Tillotson			

	Session 2 (Meeting Room 1, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Barry Croke/Junguo Liu)		
16:00~16:30	The value of hydrologic sciences and technology operational application and services in China Zhiyu Liu , Bureau of Hydrology, Ministry of Water Resources (Invited)		
16:30~16:50	What is the urban water-energy-food nexus? An explanation of the concept and case study examples from Europe and China Davy Vanham, Bernd Gawlik, Giovanni Bidoglio		
16:50~17:10	Socio-hydrological implications of water management in dry zone of Sri Lanka Isurun Gamage, Chandra Jayasena		
17:10~17:30	Flood risk in the Savinja River catchment, Slovenia (Europe) Nejc Bezak, Andrej Vidmar, Mojca Šraj, Simon Rusjan, Klaudija Sapač, Andrej Kryžanowski, Mitja Brilly		
17:30~17:50	Estimation of irrigation water demand and economic values of water in Northern China Tianhe Sun, Jinxia Wang, Qiuqiong Huang		
	Session 3 (Meeting Room 5, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Inom Normatov/Dawen Yang)		
16:00~16:30	Change in frozen soils and its effect on regional hydrology in the Tibetan Plateau Dawen Yang , Tsinghua University (Invited)		
16:30~16:50	Development of an integrated model for the Campaspe catchment: a tool to help improve understanding of the interaction between society, policy, farming decision, ecology, hydrology and climate Takuya Iwanaga, Baihua Fu, Jenifer Ticehurst, Wendy Merritt, Daniel Partington, Barry Croke, Anthony Jakeman		
16:50~17:10	Hydrological regionalization based on available hydrological information for daily runoff prediction Qiaoling Li, Zhijia Li, Yuelong Zhu, Yuanqian Deng, Ke Zhang, Cheng Yao		
17:10~17:30	Analysis of typhoon Hato's rainfall process and features based on PERSIANN estimated precipitation Jiayang Zhang, Yangbo Chen		
17:30~17:50	Evaluation of the effect of land use change on hydrologic alteration by XAJ-CN model Kairong Lin		
	14 June, Thursday		
	Session 1 (Meeting Room 6, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Hiroshi Ishidaira/Dingzhi Peng)		
8:30~9:00	The Pamir Mountains climatic zones in conditions of modern global climate change and their contribution to the water resources of the Transboundary Pyanj River Inom Normatov, Tajik National University (Invited)		
9:00~9:20	Environment impact of leachate pollution on groundwater sources in Ikere Metropolis, Ekiti State, Nigeria Bolaji Edward		
9:20~9:40	Effect of reservoir zones and hedging factor dynamism on reservoir adaptive capacity for climate change impacts Adebayo Adeloye		

9:40~10:00	A compromise, stochastic programming model framework for real-time multi-objective flood control operation of a multi-reservoir system Bin Xu, Ping-An Zhong		
	Coffee Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Marcos Villacís/Lei Cheng)		
10:30~10:50	Changes in low flow regime of the Yarlung Zangbo River Basin during the past two-third century Zhicheng Xu, Lei Cheng, Pan Liu, Fapeng Li, Depeng Zuo		
10:50~11:10	Potential adaptation measures to tackle climate change impacts on the water sector in arid climate: Perspectives from Oman Mushtaque Ahmed		
11:10~11:30	Stability and tilting of regional water cycle over Tarim basin Hongquan Zhang, Zhuguo Ma		
11:30~11:50	Assessment of land use, climate variability and climate change in water resources from Andean basins: the example of Quito Marcos Villacís, Andrés Fernández, Jean Christophe Pouget, Thomas Condom, Marisa Escobar, Marlon Calispa, David Purkey		
	Lunch Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Lal Muthuwatte/Depeng Zuo)		
14:00~14:20	Impact of urbanization on flood of Shigu creek in Dongguan city Luying Pan, Yangbo Chen		
14:20~14:40	Assess the impact of climate change on the hydrological regime using hydrological model in Jhelum catchment, Kashmir Himalaya Avtar Singh Jasrotia, Deepika Baru, Ajay kumar		
14:40~15:00	Characteristics of vegetation cover changes in Qingliu River catchment and its correlation with hydrometeorologic factors on different scales Qinli Yang, Shasha Luo, Yaoyao Lan, Junming Shao, Guoqing Wang		
15:00~15:20	Understanding the impacts of climate change in the Tana River basin, Kenya Lal Muthuwatte, Aditya Sood, Matthew McCartney, Nishchitha Sandeepana Silva		
	Coffee Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Oxana Nikitina/Litang Hu)		
16:00~16:20	Dynamic spatiotemporal change of the precipitation in Pearl River Basin from 1960 to 2016 Tao Zhang, Yangbo Chen		
16:20~16:40	Centralized versus distributed reservoirs: an investigation of their implications on environmental flows and sustainable water resources management Nishadi Eriyagama, Vladimir Smakhtin, Lakshika Udamulla		
16:40~17:00	Application of remote sensing data for measuring freshwater ecosystems changes below the Zeya dam in the Russian Far East Oxana Nikitina, Kirill Bazarov, Evgeny Egidarev		
17:00~17:20	Evaluation of blue and green water resources in the upper Yellow River basin of China Xiaoxi Gao, Depeng Zuo, Zongxue Xu, Siyang Cai, Xianming Han		
	Session 2 (Meeting Room 1, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Mohd Yawar Ali Khan/Ke Zhang)		

8:30~9:00	Impacts of climate change, land-use and CO ₂ emissions on Amazonian hydrological processes in 21st century: Multi-model projections Ke Zhang, Hohai University (Invited)		
9:00~9:20	Understanding the potential sources and environmental impacts of dissolved and suspended organic carbon in the diversified Ramganga River, Ganges Basin, India Mohd Yawar Ali Khan, Fuqiang Tian		
9:20~9:40	How does climatic factors influence the timeliness of groundwater irrigation at the household level in the North China Plain? Lijuan Zhang, Jinxia Wang, Guangsheng Zhang, Qiuqiong Huang		
9:40~10:00	Assessment of freshwater ecosystem services in the Beas and Sutlej River Basins, Himalayas region, India Sikhululekile Ncube, Lindsay Beevers, Adebayo Johnson Adeloye		
	Coffee Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Davy Vanham/Jinxia Wang)		
10:30~10:50	Spatiotemporal variability and assessment of drought in the Wei River basin of China Siyang Cai, Depeng Zuo, Zongxue Xu, Xianming Han, Xiaoxi Gao		
10:50~11:10	Physical water scarcity metrics for monitoring progress towards SDG target 6.4: An evaluation of indicator 6.4.2 "Level of water stress" Davy Vanham, Arjen Y Hoekstra, Yoshihide Wada, Faycal Bouraoui, Ad de Roo, Mesfin M Mekonnen, Wouter van de Bund, Okke Batelaan, Paul Pavelic, Wim Bastiaanssen, Matti Kummu, Johan Rockström, Junguo Liu, Berny Bisselink, Paolo Ronco, Alberto Pistocchi, Giovanni Bidoglio		
11:10~11:30	Pre-Feasibility Investigation for Mining Water Supply from Balgasyn Ulaan Nuur Basin, South Gobi, Mongolia Mei Wang, Andrew Paffard		
11:30~11:50	Methodology to explore the emergence behaviour of the interactions between water resources and ecosystem under a pluralistic approach Glenda Garcia-Santos, Marianna de Brito, Britta Höllermann, Linda Taft, Adrian Amoradie, Mariele Evers		
	Lunch Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Kamshat Tussupova/Baolin Su)		
14:00~14:20	Village-level supply reliability of surface water irrigation in rural China: Effects of climate change Yanrong Li, Jinxia Wang		
14:20~14:40	Water policy in the countries in transition and international cooperation Andrej Vidmar		
14:40~15:00	Analysis of vegetation condition and its relationship with meteorological variables in the Yarlung Zangbo River basin of China Xianming Han, Depeng Zuo, Zongxue Xu, Siyang Cai, Xiaoxi Gao		
15:00~15:20	Assessing access to drinking water and sanitation and willingness to pay for the piped water services in rural Kazakhstan: A social survey study Kamshat Tussupova, Linus Zhang		
	Coffee Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Basma Al-Shidhani/Junguo Liu)		

16:00~16:20	Analysis of changes in NDVI-based vegetation greening in Yarlung Zangbo River basin Yuanyuan Wang, Wenchao Sun, Zongxue Xu			
16:20~16:40	Produced water from a waste by product to a valuable resource Basma Al-Shidhani			
16:40~17:00	Quantifying the impact of climate change on crop water requirement in the arid Tarim River Basin Gonghuan Fang, Yaning Chen, Zhi Li			
17:00~17:20	Sources and behaviors of perchlorates ions (ClO4-) in chalk aquifer of Champagne-Ardenne, France: preliminary results Feifei Cao, Jessy Jaunat, Patrick Ollivier, Benjamin Cancès, Alain Devos, Xavier Morvan, Daniel Hubé, Pierre Pannet, Nicolas Devau, Vincent Barbin			
17:20~17:40	Impact of uncertainty about the length of dry epochs on quantifying and managing urban water supply risk Lanying Zhang, George Kuczera, Anthony S Kiem, Garry Willgoose			
	Session 3 (Meeting Room 5, 3 rd Floor, Jingshi Hotel)			
	PRESENTATIONS (Chairperson: Stevan Prohaska/Wenchao Sun)			
8:30~9:00	Assessing green and blue water under changing environment: Understanding interactions and making balance between humankind and nature Junguo Liu, Southern University of Science and Technology (Invited)			
9:00~9:20	Study on flood oriented utilization of cascade reservoirs based on time-varying design flood of inflow Jiqing Li, Jing Huang			
9:20~9:40	A new approach in design flood estimation at hydrologic gauging stations Stevan Prohaska, Aleksandra Ilić			
9:40~10:00	Detecting drought-induced changes in catchment hydrological behaviors by combining data assimilation technique with process-based model Yanghe Liu, Pan Liu, Lu Zhang, Lei Cheng			
	Coffee Break & Poster Authors in Attendance			
	PRESENTATIONS (Chairperson: Jens Moedinger/Pan Liu)			
10:30~10:50	Development of a system operation model for the Mahaweli river basin, Sri Lanka Jens Moedinger, Berhon Dibrani, Beau Freeman			
10:50~11:10	Reservoirs operation and water resources utilization coordination in Hongshuihe basin Chonghao Li, Kaige Chi, Bo Pang			
11:10~11:30	Estimation of evapotranspiration using satellite data and hydrological model of Chenab catchment, North Western Himalaya Avtar Singh Jasrotia, Kuljit Kour, Ajay Kumar			
11:30~11:50	Investigating the influences of different wind functions on estimated evaporation using generalized nonlinear complementary principle Qu Li, Lei Cheng, Pan Liu, Lu Zhang			
	Lunch Break & Poster Authors in Attendance			
	PRESENTATIONS (Chairperson: Olga N Nasonova/Hongquan Zhang)			
14:00~14:20	Framework for quantifying flow and sediment yield to diagnose and solve the aggradation problem of an ungauged catchment Sagar Tamang, Wenjun Song, Xing Fang, Jose Vasconcelos			

14:20~14:40	Assessment of trends in extreme precipitation events in Yarlung Zangbo River basin for 1958 to 2010 Jiao Fan, Wenchao Sun, Zongxue Xu		
14:40~15:00	Climate change impact on streamflow in large-scale river basins: projections and their uncertainties sourced from GCMs and RCP scenarios Olga N Nasonova, Yeugeny M Gusev, Evgeny E Kovalev, Georgy V Ayzel		
15:00~15:20	Impact of changes in land use and climate in Beiyunhe Watershed based on SWAT Model and CMADS datasets Shuang Zhao, Shiliang Liu, Yueqiu Zhang, Xiaoyun Hou, Fangyan Cheng, Xue Wu, Jingwei Xu		
	Coffee Break & Poster Authors in Attendance		
	PRESENTATIONS (Chairperson: Georgy Ayzel/Xusheng Wang)		
16:00~16:20	An assessment of temporal effect on extreme rainfall estimates Samiran Das, Dehua Zhu, Cheng Chi-Han		
16:20~16:40	The possibility of calibrating SWAT hydrological model using streamflow data of a short period Wenchao Sun, Yuanyuan Wang, Jingshan Yu		
16:40~17:00	Estimating lake-water evaporation from data of large-aperture scintillometer in the Badain Jaran Desert, China, with two comparable methods Pengfei Han, Xusheng Wang, Xiaomei Jin, Bill X Hu		
17:00~17:20	Coupling physically-based and data-driven models for assessing freshwater inflow into the Small Aral Sea Georgy Ayzel, Alexander Izhitskiy		
	15 June, Friday		
	Session 1 (Meeting Room 6, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Linda Taft/Xing Fang)		
8:30~8:50	With thawing-freezing process, runoff generation in the sources area of the Yellow River on northeastern Qinghai-Tibet Plateau Xiaoling Wu		
8:50~9:10	Global floods and their connections with the El Niño-Southern Oscillation during the TRMM/GPM era Huan Wu, Yan Yan, Guojun Gu		
9:10~9:30	Multi-scale fluctuation of precipitation in Beijing revealed by ESMD analysis Jiqing Li, Zhipeng Duan		
9:30~9:50	An analysis of extreme hydro-meteorological events with climate big data Xun Sun, Upmanu Lall		
9:50~10:10	Patterns of (de-) coupling processes between natural and human water-systems in South India Linda Taft		
10:10-10:30	Coffee Break		
	Closing Ceremony (Meeting Room 6, 3 rd Floor, Jingshi Hotel)		
10:30-11:30	Chairperson: Alberto Viglione, Secretary, IAHS-ICWRS Addressed by Andreas Schumann, President, IAHS-ICWRS Addressed by Barry Croke, Vice President, IAHS-ICWRS Addressed by Zongxue Xu, Vice President, IAHS-ICWRS		

	Session 2 (Meeting Room 1, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Flavie Cernesson/Bo Pang)		
8:30~9:00	Assessment of climate change impact on hydrological environment by necessary storage signature of hydrological variability: An introduction Kuniyoshi Takeuchi , University of Yamanashi (Invited)		
9:00~9:20	Detecting trend on water quality bioindicator series – how to deal with short incomplete time series? Methodological and operational issues Flavie Cernesson, Marie-George Tournoud, Nathalie Lalande		
9:20~9:40	Developing a new methodology to define national droughts Parmeshwar Udmale, Yutaka Ichikawa		
9:40~10:00	Sharing Compensation Benefits of Cascade Hydropower Stations Based on Shapely and Critic Value Method Jiqing Li, Xiong Yang		
10:00~10:20	Horizontal insulating barriers as a way to protect groundwater Renata Cicha-Szot, Krzysztof Labus, Sławomir Falkowicz, Norbert Madetko		
10:20-10:30	Coffee Break		
	Closing Ceremony (Meeting Room 6, 3 rd Floor, Jingshi Hotel)		
10:30-11:30	Chairperson: Alberto Viglione, Secretary, IAHS-ICWRS Addressed by Andreas Schumann, President, IAHS-ICWRS Addressed by Barry Croke, Vice President, IAHS-ICWRS Addressed by Zongxue Xu, Vice President, IAHS-ICWRS		
	Session 3 (Meeting Room 5, 3 rd Floor, Jingshi Hotel)		
	PRESENTATIONS (Chairperson: Alberto Viglione/Baolin Su)		
8:30~9:00	A Socio-hydrological flood model for the Elbe Alberto Viglione, Vienna University of Technology (Invited)		
9:00~9:20	Identification of driving factors of cloud water interception estimates in the canopy vegetation using a canopy water budget approach: A case-study in the Galapagos Islands Christian Domínguez, Paola Echeverría, Marcos Villacís, Sophie Violette		
9:20~9:40	Assessing the satellites and radar rainfall estimates for flood forecasting in the context of hydrological modelling Dehua Zhu, Abro Mohammad Ilyas, Ming Wei		
9:40~10:00	The potentials of Oyan dam/reservoir: A spatio-temporal assessment Amidu Owolabi Ayeni, Lawrence E Ojifo		
10:00~10:20	A new method for indirectly estimating infiltration of paddy fields in situ Xu Yunqiang, Su Baolin, Wang Hongqi, He Jingyi		
10:20-10:30	Coffee Break		
10:30-11:30	Closing Ceremony (Meeting Room 6, 3 rd Floor, Jingshi Hotel)		

Chairperson: Alberto Viglione, Secretary, IAHS-ICWRS Addressed by Andreas Schumann, President, IAHS-ICWRS Addressed by Barry Croke, Vice President, IAHS-ICWRS Addressed by Zongxue Xu, Vice President, IAHS-ICWRS

7. Poster Program

	8:30~13:00		
P1	Study of fuzzy pattern recognition for reasonable allocation of regional water resources based the entropy coupling model using the Fuzzy Analytic Hierarchy Process (FAHP) Shaowei Ning, Juliang Jin, Jie Wang, Chengguo Wu		
P2	Response of streamflow to climate change in a sub-basin of the source region of the Yellow Riv based on a tank model Pan Wu, Xu-sheng Wang, Sihai Liang		
Р3	Diagnosis and analysis on the evaporation paradox in the Jinsha River basin, China Xiaowan Liu, Zongxue Xu, Dingzhi Peng		
P4	Analysis of spring flow change in the Jinan City under influences of recent human activities Xiaomeng Liu, Litang Hu, Kangning Sun		
P5	Preliminary research on quantitative model of water resources carrying capacity based on water resources balance sheet Yanqiu Wang, Xiaorong Huang, Linyun Gao, Biying Guo, Kai Ma		
P6	Discussion on water resources value accounting and its application Biying Guo, Xiaorong Huang, Kai Ma, Linyun Gao, Yanqiu Wang		
P7	Entropy and multi-objective method based optimization for hydrometric network Heshu Li, Dong Wang, Yuankun Wang		
P8	Integrated design method for multivariable hydrometric network based on coupled information entropy and copula theory Wenqi Wang, Dong Wang, Yuankun Wang		
P9	Analysis of the spatial-temporal change of the vegetation index in the upper reach of Hanjiang River Basin in 2000-2016 Jinkai Luan, Dengfeng Liu, Lianpeng Zhang, Qiang Huang, Jiuliang Feng, Mu Lin, Guobao Li		
P10	Impact of possible climate changes on river runoff under different natural conditions Yeugeniy Gusev, Olga Nasonova, Evgeny Kovalev, Georgii Ayzel		
P11	Irrigation and crop production under climate change and influence on energy use and GHG emission in Northeast China Tingting Yan, Jinxia Wang, Jikun Huang, Wei Xie, Tingju Zhu		
P12	Assessing the runoff sensitivities to precipitation and temperature changes under global climate change scenarios Lei Chen, Jianxia Chang, Yuelu Zhu		
P13	Continental and marine surficial water – groundwater interactions: the case of the southern coastland of Venice (Italy) Luigi Tosi, Cristina Da Lio, Pietro Teatini, Antonio Menghini, Andrea Viezzoli		

P14	Connections between meteorological and hydrological droughts in semi-arid basins of the middle Yellow River Binquan Li, Zhongmin Liang			
	13:00~18:00			
P15	Modeling the ability of source control measures to reduce inundation in a community-scale urba drainage system Chao Mei, Jiahong Liu, Hao Wang, Chengyao Xiang, Jinjun Zhou			
P16	Predicting future land cover change and its impact on streamflow and sediment load into Son La Reservoir in a trans-boundary river basin Jie Wang, Shaowei Ning, Hao Wang, Ishidaira Hiroshi			
P17	Land use/cover change in the upper reaches of Minjiang River and its response to hydrological characteristics Kai Ma, Xiaorong Huang, Biying Guo, Yanqiu Wang, Linyun Gao			
P18	An improved PSO-RBF model for runoff prediction in Karst area, South China Zhangjun Cao, Dong Wang			
P19	Temporal and spatial variation of hydrological condition in the Ziwu River Basin of Hanjiang River in China Li zi-yan, Liu deng-feng, Huang qiang, Bai tao, Zhou shuai, Lin mu			
P20	Study on the influence on water ecosystem by a lake inflow filtration system Sushu Wu, Xiaodong Hu			
P21	Quantitative analysis on sensitive factors of runoff change in Fenhe watershed based on integration approach Deng Wang, Shengqi Jian, Zening Wu, Zhaoxi Zhang, Caihong Hu			
P22	Parameters estimation for heterogeneous distribution based on cross entropy method Mingzhe Zhao, Yimin Wang, Jianxia Chang			
P23	The application of Mike Urban model in drainage and waterlogging in Lincheng county Qinghua Luan, Kun Zhang			
P24	Optimizing the joint operation of multi-reservoir system with a parallel dynamic programming algorithm in a high-performance computing system Li Xiang, Wei Jiahua, Li Tiejian, Wang Guangqian, Yeh W G William			

8. Meals

Date	Meal	Time	Place
12 June	Dinner	17:00	Jianweixuan Restaurant, 1 st Floor, Jingshi Hotel
13 June	Lunch	12:00	Multifunctional Hall B, 2 nd Floor, Jingshi Hotel
15 0 01110	Banquet	18:00	Transference Trans B, 2 Troot, Vingsin Trote
14 June	Lunch	12:00	Multifunctional Hall A, 2 nd Floor, Jingshi Hotel
1 i suite	Dinner	18:00	Jianweixuan Restaurant, 1st Floor, Jingshi Hotel

15 June	Lunch	12:00	Jianweixuan Restaurant, 1st Floor, Jingshi Hotel
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9. Field Trip

Delegates who want to visit the Olympic Village or South-North Water Transfer Project must register before the symposium, and will depart at 13:30 on 15 June at the lobby, 1st Floor, Jingshi Hotel.

10. Contact

Secretary-General and Program / Session 1

Dr. Dingzhi Peng

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Accommodation and Meals / Session 2

Dr. Bo Pang

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Beijing Normal University Campus Map

