

## Daily Conference Program

Thursday, 15 <sup>th</sup> January 2015 (Day 1)		
15:00-18:00	Registration (Building 1)	
18:00-20:00	Dinner	
Friday, 16 <sup>th</sup> January 2015, Building 1, Room JiXian (Day 2)		
8:30-8:50	Welcome Speech	Prof. Alistair Borthwick
8:50-9:20	Introduction of AMFR // Prof. Jinren Ni, Peking University, China	
9:20-10:00	Material fluxes in River Eco-Systems as Basic Information for Integrated Water Resources Management // Prof. Manfred Spreafico, University of Berne, Swiss	
10:00-10:15	Photo	
10:15-10:40	Coffee Break	
10:40-11:10	Modeling the Effect of Diversions for Land Building on the Lower Mississippi River //Prof. Gary Parker, University of Illinois at Urbana-Champaign, USA	Prof. Gregory Korshin
11:10-11:40	Modeling Occurrence and Assessing Public Perceptions of De Facto Wastewater Reuse across the USA //Prof. Paul Westerhoff, Arizona State University, USA	
11:40-12:10	Sediment Flux into the Great Barrier Reef Lagoon in Australia – the controlling factors //Prof. Baofu Yu, Griffith University, Australia	
12:10-13:30	Lunch	
13:30-14:00	Organic Matter Dynamics in the Amazon Basin //Prof. Marc Benedetti, Université Paris Diderot, France	Prof. Xudong Fu
14:00-14:30	An Integrated Study of River-Groundwater Interactions under the Influence of Climate Change and Human Activities // Prof. Chunmiao Zheng, Peking University, China	
14:30-15:00	Hydrological Fluxes in the Xiangxi River //Prof. Gordon Huang, University of Regina, SK	
15:00-15:30	Effects of Habitat Connectivity on Biodiversity of Benthic Invertebrates //Prof. Zhaoyin Wang, Tsinghua University, China	

15:30-16:00	<b>Coffee Break</b>	
16:00-16:30	Exploring Bacterial Diversity, Identifying Pathogens and Detecting Antibiotic Resistance Genes Using Next Generation Sequencing //Prof. Tong Zhang, The University of Hong Kong, China	Prof. Manfred Spreafico
16:30-17:00	Mechanistic Quantitative Prediction of Nano- and Micro-Particle Retention in Porous Media: Contaminant Removal during Hyporheic Exchange, Riverbank Filtration, and Other Contexts //Prof. William P. Johnson, University of Utah, USA	
17:00-17:30	The Impact of Different Aquatic Colloids on the Behavior and Fate of Pharmaceutical Contaminants in the Yangtze Estuary //Prof. Junliang Zhou, East China Normal University	
18:00-20:30	<b>Gala Dinner</b>	
20:30-22:00	Advisory Committee Meeting	
<b>Saturday, 17<sup>th</sup> January 2015, Building 1, Room JiXian (Day3)</b>		
8:30-9:00	Analytical Monitoring of Emerging Contaminants and Assessment of Their Environmental Transformation //Prof. Chinghua Huang, Georgia Institute of Technology, USA	Prof. Marc Benedetti
9:00-9:30	Looking beyond struvite for P-recovery //Prof. Xiaodi Hao, Beijing University of Civil Engineering and Architecture, China	
9:30-10:00	Sediment Flux and Its Environmental Implications //Prof. Alistair Borthwick, University of Edinburgh, U.K	
10:00-10:30	Prediction of Budget and Fate of Persistent Toxic Pollutants in Water Bodies //Prof. Yifan Li, Harbin Institute of Technology, China	
10:30-10:50	<b>Coffee Break</b>	
10:50-11:20	Harmful Algal Blooms in Lakes and Rivers and their Impact in Drinking Water Quality: The Need for Effective Treatment of Cyanotoxins //Prof. Dionysios D. Dionysiou, University of Cincinnati, USA	Prof. Paul Westerhoff
11:20-11:50	Structure of Riverine Ecological Flux: Concept, Measurement, and Operation Objectives //Prof. Jianbo Chang, Institute of Hydroecology, Ministry of Water Resources and Chinese Academy of Sciences	
11:50-12:20	Prediction of Budget and Fate of Persistent Toxic Pollutants in Water Bodies //Prof. Yitian Li, Wuhan University, China	

12:20-13:30	Lunch	
Parallel Section in the Afternoon, Building 1 Conference Room A		
13:30-13:45	Metal and metalloid in sediments of the Yangtze River //Dr. Weiling Sun, Peking University, China	Prof. William P. Johnson & Prof. Tong Zhang
13:45-14:00	Effects of Three Gorge Project Operation on Drought Condition in Poyang Lake //Ms. Rong Huang/Mr. Ma tao, Peking University, China	
14:00-14:15	Phosphorus Forms and Distribution in Water and Sediment of Yangtze River, China //Prof. Min Li, Beijing Forestry University, China	
14:15-14:30	Occurrence and Distribution of Micro-organic Pollutants in Water and Sediment of Yangtze River //Prof. Nan Xu, Peking University Shenzhen Graduate School, China	
14:30-14:45	Spatial and Seasonal Distribution Characteristics of Microbial Communities in the Mainstream of the Yangtze River //Dr. Qian Chen and Mr. Tang Liu, Peking University, China	
14:45-15:00	The Anammox Bacteria Existence under High DO Concentration and Low Temperature Conditions in the Yangtze River //Ms.Xuan Wu, Peking University, China	
15:00-15:15	Analysis on Chemical Speciation of Metals in Natural Water Environment //Mr. Xiangrui Wang, Prof. Wenhong Fan, Beihang University, China	
15:15-15:30	Direct Identification of Bacteria in Wastewater by Matrix-assisted Laser Desorption/Ionization (MALDI-TOF) Mass Spectrometry //Ms. Lijuan Zhang, National University of Singapore, Singapore	
15:30-16:00	Coffee Break	
16:00-16:15	A Hydrologic Index Based Method for Determining Ecologically Acceptable Water-Level Range: A Case Study in Dongting Lake //Prof. Dr. Jie Liang, Hunan University, China	Prof. Dionysios Dionysiou & Prof. Xiaodi Hao
16:15-16:30	Metal Speciation and Dissolved Organic Matter Composition in Solutions //Dr. Zongling Ren, Univ. Paris Diderot, France	
16:30-16:45	Effect of Three Gorges Reservoir on Sediment and Particulate Phosphorus Flux in the Middle and Lower Reaches of Yangtze River //Dr. Huiqun Cao, Changjiang River Scientific Research Institute, China	
16:45-17:00	Biogeochemical Cycling and Export of Emerging Contaminants under Complex Hydrodynamics in the Yangtze Estuary //Dr. Heng Zhao, East China Normal University, China	

17:00-17:15	Macroinvertebrates in the Yangtze Basin: Assemblage Characteristics and Response Patterns Along the Environmental Gradients //Mr. Baozhu Pan, Changjiang River Scientific Research Institute, China	
17:15-17:30	Applications of Aquatic Microorganisms for Control and Recycling of Anthropogenic Waste //Prof. Daroch, Maurycy, Peking University-Shenzhen Graduate School	
17:30-17:45	Eco-toxicity Determination of Bottom Ash Leachates using Daphnia magna and MS-based Metabolomics Approach //Ms. S. N. Lee, National University of Singapore, Singapore	
Building 1 Conference Room D		
13:30-13:45	Land Damages due to Sand Shattered Under High Flood: A Case Study of Chenab River Marala to Qadirabad Reach // Dr. Ghulam Nabi, University of Engineering and Technology, Pakistan	Prof. Guangyi Wang & Prof. Yitian Li
13:45-14:00	Analysis of the Fluvial Process of the Jingjiang River after Operation of the Three Gorges Project // Mr.Yonghui Zhu, Changjiang River Scientific Research Institute, China	
14:00-14:15	Study on the Characteristics and Influence Factors of Aquatic Organisms Fluxes Temporal and Spatial Variation in Mainstream of Yellow River //Mr. Jinxu Han, Yellow river institute of Hydraulic research, China	
14:15-14:30	Discussion about the Concept of River Flux //Mr. Lingyun Li, Changjiang River Scientific Research Institute, China	
14:30-14:45	River Pollutant Flux Simulation and Control //Prof. Huatang Ren, Minzu University of China, China	
14:45-15:00	Response of bay and estuarine tide flux to high-intensity development of mudflats-case study in Bohai Bay //Dr. Qingzhi Hou, Nanjing Hydraulic Research Institute, China	
15:00-15:15	Water-Sediment Flux into Three Gorges Reservoir and Erosion-Deposition Changing Pattern //Mr. Zhongwu Jin, Changjiang River Scientific Research Institute, China	
15:15-15:30	Quantitative Detection of Trace Lead Ions in River Water using DNAzyme with an Anionic Intercalator //Mr. Yaoyu Zhou, Prof. Lin Tang, Hunan University, China	
15:30-16:00	Coffee Break	

16:00-16:15	The Response of River Regime Evolution to Flow-Sediment Flux Changes in the Curved and Bifurcated Reach in Lower Jingjiang River—Case Study of Yaojian Reach //Dr. Liqin Zuo, Nanjing Hydraulic Research Institute, China	Prof. Yuefei Huang & Prof. WenyiYao
16:15-16:30	Analysis on Riverbed Evolution of Zhoutianou Reach of Yangtze River after the Operation of the Three Gorges Reservoir //Mr.Geng Qu, Changjiang River Scientific Research Institute, China	
16:30-16:45	A Mike-based Flood Risk Assessment on the Pajing Detention Area of Beijiang Basin, China //Dr. Fengqing Guo, Hui Zeng, Shanxi Agricultural University, Peking University Shenzhen Graduate School, China	
16:45-17:00	Study on the Correlation of River Sediment and Hydrochemical Material Flux under Erosion Conditions //Mr. Jiasheng Wang, Changjiang River Scientific Research Institute	
17:00-17:15	Why Toxic and Non-toxic Microcystis sp. Coexist in Singapore Reservoirs? Biological Insights through NMR and MS-based Metabolomics //Ms. W.L. Zhang, National University of Singapore, Singapore	
17:15-17:30	2009-2013 Observation of Sediments Transport in Three Gorges Reservoir during Middle and Small Flood Operation //Mr.Yinjun Zhou, Changjiang River Scientific Research Institute, China	
18:00-20:00	Dinner	
Sunday, 18 <sup>th</sup> January 2015, Building 1 (Day4)		
Conference Room A		
8:30-8:50	Impacts of Planktonic Fungi on Primary Production in Aquatic Ecosystems //Prof. Guangyi Wang, Tianjin University, China	Prof. Chinghua Huang
8:50-9:10	Development and Demonstration of a Cu(II)-imprinted Poly(vinyl alcohol)/Poly(acrylic acid) Membrane for Greater Enhancement in Sequestration of Copper Ion in The Presence of Competitive Heavy Metal Ions //Prof. J. Paul Chen, National University of Singapore, Singapore	
9:10-9:30	Effect of Water-Sediment Regulation of the Xiaolangdi Reservoir on the Concentrations, Bioavailability, and Fluxes of PAHs in the Middle and Lower Reaches of the Yellow River //Prof. Xinhui Xia, Beijing Normal University, China	
9:30-9:50	Dissolved Methane Distribution in the Yangtze River: Implications for Sources and Emissions //Prof. Guiling Zhang, Ocean University of China	
9:50-10:10	Novel Approaches to Characterize the Reactivity of Dissolved Organic Matter in Water via Interpretation of Its Absorbance Spectra //Prof. Mingquan Yan, Peking University, China	

10:10-10:40	Coffee Break	
10:40-11:00	Biogeochemical Exchange between Water Column and Benthic Sediment Layer Numerical Studying about Three Gorges Reservoir //Prof. Jian Li, Changjiang River Scientific Research Institute, China	Prof. Paul Chen
11:00-11:20	Investigation of Pharmaceutical and Personal Care Products (PPCPs) in Environmental Water Samples by Liquid Chromatography – Yandem Mass Spectrometry (LC-MS/MS) //Dr. Liu Feng, National University of Singapore, Singapore	
11:20-11:40	Water and Energy Nexus in Big River System in China //Prof. Guoyu Qiu, Peking University, China	
Conference Room D		
8:30-8:50	Variation of Water and Sediment Flux in Middle and Lower Yangtze River after Impoundment of Three Gorges Reservoir //Prof. Jinyou Lu, Yangtze River Scientific Research Institute, China	Prof. Sam Li
8:50-9:10	Selenium in the Great Salt Lake, the Dynamics of the Real versus the Regulatory Worlds //Prof. William P. Johnson, University of Utah, USA	
9:10-9:30	Analytical and Numerical Exploration for the Multi-Dimensional Distribution of Trace Material in Shear Flow //Dr. Zi Wu, Tsinghua University, China	
9:30-9:50	Monitoring of Intact Endotoxins in Water and Analysis of Their O-antigen Polysaccharide Moiety //Dr. Huatao Feng, National University of Singapore, Singapore	
9:50-10:10	Soil Erosion and Sediment Yield Characteristics of the Hilly-Gully System in the Loess Region //Prof. Wenyi Yao, Yellow river institute of Hydraulic research, China	
10:10-10:40	Coffee	
10:40-11:00	Response of Land Accretion in the Yellow River Delta to Changes in Water and Sediment Supply during 1976-2013 //Dr. Yuanyuan Zhou/Prof. Heqing Huang, Chinese Academy of Sciences	Prof. Xinhui Xia
11:00-11:20	Study on Characteristics of the Recent Fluvial Processes of Wuhan Reach in the Middle Reach of Yangtze River //Mrs. Hongyan Yue, Changjiang River Scientific Research Institute, China	
11:20-11:40	Erosion-induced CO <sub>2</sub> Flux in Small Watersheds //Dr. Yao Yue, Wuhan University, China	
11:40-12:10	Conference Closing at Conference Room A	Prof. Gregory Korshin
12:10-13:30	Lunch	