

**IAHS-ICWQ-Panta Rhei Workshop**  
**Water quality –a component of the water-energy-food nexus**

**Date: 4-5 December, 2017**


**Venue: Sun Yat-sen University, Guangzhou, China**



丰泽源



*water*

an open access journal by  MDPI

# IAHS-ICWQ-Panta Rhei Workshop

## Water quality –a component of the water-energy-food nexus

**Date:** 4-5December, 2017

**Venue:** Sun Yat-sen University, Guangzhou, China

### **Host:**

Center for Water Resources and Environment, Sun Yat-sen University, China  
The Pearl River Hydraulic Research Institute, China  
Shenzhen Techand Ecology & Environment Co., Ltd.  
Guangdong Research Institute of water resources and Hydropower, China  
Guangzhou Fengzeyuan Water Science and Technology Co. Ltd., China  
Guangdong Engineering Technology Research Center of Water Security Regulation and Control for Southern China

### **Support:**

National Natural Science Foundation of China

### **Local organization committee:**

Xiaohong Chen –Prof., Sun Yat-sen University, Guangzhou, China  
Bensheng Huang –Prof.& Director, Guangdong Research Institute of water resources and Hydropower, China  
Liangxin Li –Prof.& Director, The Pearl River Hydraulic Research Institute, China  
Qinge Liu –Dr., Shenzhen Techand Ecology & Environment Co., Ltd.  
Zhongbo Yu –Prof., Hohai University, China  
Jianzhong Zhou - Prof., Huazhong University of Science and Technology, China  
Dawen Yang –Prof., Tsinghua University, China  
Jijian Lian - Prof., Tianjin University, China  
Jinhui Huang –Prof., Nankai University, China  
Yan Zheng - Prof., South University of Science and Technology of China  
Huicheng Zhou - Prof., Dalian University of Technology, China  
Chuntian Cheng –Prof., Dalian University of Technology, China  
Chi Zhang –Prof., Dalian University of Technology, China  
Xi Chen –Prof., Hohai University, China  
Zongxue Xu –Prof., Beijing Normal University, China  
Jia Li - Prof., Sichuan University, China  
Qiang Huang –Prof., Xi'an University of Technology, China  
Xiaonong Hu –Prof., Jinan University, China  
Guangheng Ni - Prof., Tsinghua University, China  
Junguo Liu –Prof., South University of Science and Technology of China  
LihuaXiong–Prof., Wuhan University, China  
Yongping Li –Prof., Beijing Normal University, China  
Ping Feng - Prof., Tianjin University, China  
Yueping Xu - Prof., Zhejiang University, China  
Binjun Liu- Sun Yat-sen University, Guangzhou, China  
Kairong Lin- Sun Yat-sen University, Guangzhou, China  
Dedi Liu - Prof., Wuhan University, China

### **Scientific Advisory Board:**

Hao Wang – Academician of Engineering, Chinese Academy of Engineering  
Jianyun Zhang - Academician of Engineering, Chinese Academy of Engineering; and Fellow of the Royal Academy of Engineering of the UK  
Jun Xia - Academician of Science, Chinese Academy of Sciences  
Chao Wang - Academician of Engineering, Chinese Academy of Engineering  
Chunhong Hu - Academician of Engineering, Chinese Academy of Engineering  
Jinren Ni - Academician of Science, Chinese Academy of Sciences  
Zhifeng Yang - Academician of Engineering, Chinese Academy of Engineering  
Chongyu Xu –Prof., Academician of Norwegian Academy of Science and Letters, University of Oslo, Norway  
Guohe Huang –Prof., The Academy of Science of the Royal Society of Canada, University of Regina, Canada  
Wanhong Li –Prof., National Natural Science Foundation of China  
Shenglian Guo - Prof., Wuhan University, China  
Guangming Zeng - Prof., Hunan University, China  
Chunmiao Zheng –Prof., South University of Science and Technology of China  
Gwo-Fong Lin –Prof., National Taiwan University, China  
Kate Heal - Prof., The University of Edinburgh, United Kingdom  
Christophe Cudennec–Prof., Secretary General, IAHS, France  
Wouter Buytaert–Prof., Imperial College London, United Kingdom  
A.B. Gupta–Prof., MNIT Jaipur, India  
Matt Hipsey–Dr., The University of Western Australia, Australia  
Per Stalnacke–Dr., Senior Scientist, Norwegian Institute for Agricultural and Environmental Research, Norway  
Hong-Li Yi (Panta Rhei)–Prof., Montana State University, United States  
Alena Bartosova–Dr., Senior Scientist, Swedish Meteorological and Hydrological Institute, Sweden  
Ximing Cai - Prof., University of Illinois at Urban-Champaign, USA  
Quanxi Shao - Principal Research Scientist, CSIRO, Australia  
Yongxin Xu –Prof., University of the Western Cape, South Africa  
Qizhong Guo –Prof., The State University of New Jersey, USA  
Yanqing Lian - Prof., University of Illinois at Urban-Champaign, USA  
Frederick Lee - Prof., The University of Hong Kong, Hong Kong, China  
Yongqin Chen - Prof., The Chinese University of Hong Kong, Hong Kong, China

### **Background and Aim:**

There is increasing policy and scientific emphasis on the water-energy-food nexus as a framework for analysing human-environment systems at global and local scales and proposing more sustainable pathways to a secure future. However consideration of water quality in the nexus is often a secondary consideration. The aim of this workshop is to evaluate the role of water quality in the water-energy-food nexus and to discuss approaches to water quality assessment within the nexus framework through presentation and discussion of case-studies and analyses at different scales.

### **Topics:**

- (1) Case-studies examining water quality in the water-energy-food nexus.
- (2) Regional/global scale analyses and models of water quality in the water-energy-food nexus.
- (3) Monitoring and assessment of water quality in the water-energy-food nexus – current approaches and novel techniques.
- (4) Water quality management approaches informed by the water-energy-food nexus.

### **Output:**

HSJ - community water quality review paper or Panta Rhei opinion piece.

**Water – Special issue "Water quality as a component of the water-energy-food nexus":** Selected papers from this Workshop can be published as a collection on the journal *Water* with invited peer-reviews. The journal offers a 20%-30% off the Article Processing Charges (APC) and some fee waivers for excellent papers. Link to the journal <http://www.mdpi.com/journal/water> .

### **Important Dates:**

Deadline for abstract submission: 20 Nov., 2017. Abstract of no more than 300 words should be sent to Dr. Yanhu He: [heyhanhu3@mail.sysu.edu.cn](mailto:heyhanhu3@mail.sysu.edu.cn)

Workshop reception: 3 Dec., 2017

**Full paper: submit before 31 March, 2018**

### **Invited speakers:**

Hao Wang  
Jianyun Zhang  
Jun Xia  
Chunhong Hu  
Zhifeng Yang  
Chongyu Xu  
Guohe Huang  
Kate Heal  
A.B. Gupta  
Matt Hipsey  
Per Stalnacke  
Alena Bartosova

### **Fees:**

Free registration and free meals.

Hotels: RMB 400-600 ¥ /single room.

### **Program:**

2days, including presentations and discussion sessions.

4 Dec., 2017: Opening ceremony, keynote speakers, presentations and discussions.

5 Dec., 2017: Presentations, discussions, summary and closing ceremony.

6-8 Dec., 2017: (1) Half day visit to the pollution regulation of rivers in the Pearl River Delta;  
(2) Self-paid trips to Hong Kong and Macau.

**Contact:**

Ms Haixia Ye: +86 13632259697, Email: eesyhx@foxmail.com

Dr.Yihan Tang: +86 15013202160, E-mail:609300407@qq.com

Dr.Yanhu He: +86 13430343985, E-mail: heyanhhu3@mail.sysu.edu.cn

Fax: +86 2084114575

**About Guangzhou and The Pearl River Delta:**

With a history of over 2200 years, Guangzhou is the largest and most prosperous city in South China, and therefore so called the “South Gate of China”. It is not only a civilized ancient city, but also a modern city which is the political, economic, educational, cultural as well as scientific and technological center in South China. Guangzhou is also a popular tourist destination with a few beautiful and legendary nick names, Huacheng (the Flower City), Yangcheng (the Goat City) and Suicheng (the Rice-ear City).Vegetation is evergreen and flowers bloom all year round thanks to a moist subtropical climate. There are more than 150 famed scenes and sights in Guangzhou, and a good variety of modern facilities for recreation and entertainment.

The Pearl River Delta, represented by the “Golden Triangle” of Guangzhou-Hong Kong-Macao, has been the fastest developing region in China since the country adopted the “open door and reform” policy in the late 1970s. Over the past 35 years, economic development at annual economic growth rates of nearly 13% on the average (world records of continuous growth for such a long period) has been maintained in the delta region, leading to over 100-fold increase of GDP in many counties and municipalities. The region is also called “World Factory” due to its massive export-oriented manufacturing. As a result of rapid urbanization and industrialization, this region has witnessed enormous environmental changes within only two to three decades and such changes in developed countries may have occurred only after up to one century of development. The rapidly changing environment of the delta region exhibits a variety of very typical water problems also faced by many other urbanized areas in the world. Moreover, the Pearl River Delta also uniquely has one of the most complex deltaic drainage networks in the world, as well as a highly dense agglomeration of over 100 towns and cities. To hold the conference in Guangzhou will provide participants with excellent opportunities to visit this highly dynamic region and experience a wide variety of water quality problems.