

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

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

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
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Yan Zheng - Prof., South University of Science and Technology of China
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Qiang Huang – Prof., Xi'an University of Technology, China
Xiaonong Hu – Prof., Jinan University, China
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Junguo Liu –Prof., South University of Science and Technology of China
Lihua Xiong – 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:

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Jianyun Zhang - Academician of Engineering, Chinese Academy of Engineering; and Fellow of the Royal Academy of Engineering of the UK
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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.

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

Workshop reception: 3 Dec., 2017

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, free for invited scholars.

Program:

2 days, 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.

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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.