

**International Workshop on
Hydrological Knowledge Innovation and its
Practices in Developing Countries**

November 13-17, 2016

Shenzhen & Wuhan, China

Organizers:

School of Environmental Science & Engineering, South University of Science
and Technology of China, Shenzhen, China

Research Institute for Water Security, Wuhan University, Wuhan, China

Chinese National Committee of *Panta Rhei* Program, Chinese National Committee
of International Association of Hydrological Science (IAHS-CNC)

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Introduction

Water security has become the most important issue for the world economy and global sustainability. In the current modern times, humans have deeply impacted the natural hydrological cycles, and hydrology is now complemented by socio-hydrology. Hydrological knowledge must be strengthened and will play a key role in providing the basis for the integration of hydrological physical processes with human activity dimension and social demands for water security. In response to this imperative to include human impact as integral to hydrological research, the International Association of Hydrological Sciences (IAHS) launched the hydrological decade 2013-2022 with the theme “*Panta Rhei: Change in Hydrology and Society*”. This *Panta Rhei* program aims to reach an improved interpretation of the processes governing the water cycle by focusing on their changing dynamics in connection with rapidly changing human systems.

Different countries and regions are facing different water problems, e.g. water scarcity in Middle East and North Africa, floods in Southeast Asia, water pollution in China, water and poverty in Africa and South America, and trans-boundary water issue in Europe. There is an urgent need to understand available hydrological knowledge and new demand for hydrological innovation in order to meet the grand water challenges worldwide, in particular in the developing countries.

This international workshop aims to bring together scientists from worldwide (in particular from developing countries) and various disciplines that share a common interest in addressing the challenges of understanding and managing the hydrological systems knowledge. There are four main objectives for this workshop:

- (1) Understand major water challenges in e.g. developing countries in a coupled nature-human systems;
- (2) Demonstrate current hydrological knowledge of models, tools and case studies to deal with water problems e.g. water scarcity, water-related disasters, groundwater depletion, water-related poverty and wars;
- (3) Identify demand for hydrological innovation to meet the grand water challenges in different regions;
- (4) Develop a multi-national and multi-disciplinary cooperation framework and statement with a concrete working plan in order to provide capacity building, monitoring equipment, remote sensing techniques, and free software packages for developing countries, and to expand *Panta Rhei* as well as IAHS through establishing national committees and regional networks and increasing members in these countries.

Registration fees

No registration fees will be charged, but participants are responsible for their own travelling and accommodation. Conference organizers will help participants arrange hotels and travelling within China.

Key deadlines

March 15, 2016	First announcement of conference information
May 31, 2016	Second announcement of conference information
September 15, 2016	Deadline for collecting Return Receipt
October 31, 2016	Last announcement with detailed conference information
Nov 13-17 31, 2016	Workshop

Preliminary Agenda

Date/Location		Content	
November 13, 2016 (Shenzhen)		Registration	
October 14, 2016 (Shenzhen)	Morning	Opening	Welcome remarks from organizer and sponsors, picture time, general announcements
	Afternoon	Topical sessions	Themes: Theme 1: Major water challenges Theme 2: Hydrological knowledge of models, tools and case studies Theme 3: Demand for hydrological innovation
October 15, 2016 (Shenzhen-Wuhan)	Morning	Topical sessions	Theme 4: Cooperation framework and statement with a concrete working plan (Shenzhen declaration)
	Afternoon	Leave for Wuhan	
October 16, 2016 (Wuhan)	Morning	Lectures and Exchange with Foreign Experts (1)	
	Afternoon	Lectures and Exchange with Foreign Experts (2)	
October 17, 2016 (Wuhan)	Morning	Leave for home	

Contact Information

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Organizer Information

South University of Science and Technology of China (SUSTC) was founded in 2011 in the southern city of Shenzhen, the epicenter of China's economic miracle and ingenuity over the past 35 years. Situated on a tranquil and picturesque campus of rolling hills and wandering creeks, SUSTC is widely known as a pioneer for higher education reform and innovation in China. With an outstanding faculty trained globally, SUSTC is making great strides toward its goal of building a world-class institution of higher education and cutting-edge research with broad societal impacts. The successful candidates will have great opportunities to contribute to the advancement of science in an increasingly global economy. Web site: www.sustc.edu.cn

Wuhan University (WHU) is a comprehensive and key national university directly under the administration of the Ministry of Education. The history of Wuhan University can be traced back in 1893 in the late Qing Dynasty. In 2000, an amalgamation of the former Wuhan University, Wuhan University of Hydraulic and Electric Engineering, Wuhan Technical University of Surveying and Mapping, and Hubei Medical University was announced, which ushered in a new era in its 100-odd years of development. The remarkable achievements of Wuhan University have won itself an extensive international reputation. In 1999, the world renowned journal *Science* listed Wuhan University as one of the most prominent institutions of higher education in China. Web site: <http://www.whu.edu.cn/>

Return Receipt

International Conference on Hydrological Systems Knowledge:

Innovation and Practices in Developing Countries

Shenzhen & Wuhan, China

November 13-17, 2016

Please print in ink or type. This form may be duplicated for additional registrations.

Personal Information

- Male Female
- Last name _____ First name _____ Middle initial _____
- (as you wish to see it on your name tag)

- The title of my talk _____
- ◆ Special Needs _____

Accompanying Guests

- Yes No
- Male Female
- Last name _____ First name _____ Middle initial _____

Additional Information

Arrival date _____ Leave date _____

Willing to participate in the field trip: Yes No

Return this receipt form before **August 15, 2016 to: liujg@sustc.edu.cn**