**International Workshop on**

**Hydrological Knowledge Innovation and its Practices in Developing Countries**

**November 13-17, 2016**

**Shenzhen & Wuhan, China**

**Organizers:**

South University of Science and Technology of China, Shenzhen, China

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 counties.

**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 20, 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**

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| --- | --- |
| **Date/Location** | **Content** |
| November 13, 2016 (Shenzhen) | Registration |
| October 14, 2016 (Shenzhen) | Morning | Opening | Welcome remarks from organizer and sponsors, picture time, general announcements |
| Topical sessions | Themes:Theme 1: Major water challengesTheme 2: Hydrological knowledge of models, tools and case studiesTheme 3: Demand for hydrological innovation  |
| Afternoon |
| 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](http://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/>

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| 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**