

# IAHS-PUB-CHINA 2008



## INTERNATIONAL SYMPOSIUM OF IAHS-PUB AND THE 2<sup>ND</sup> INTERNATIONAL SYMPOSIUM OF CHINA-PUB

**Hydrological Modeling and Integrated Water Resources  
Management in Ungauged Mountainous Watershed**

**November 7<sup>th</sup>-9<sup>th</sup>, 2008**

*First Announcement  
and Call for Papers*

**Chengdu**

**China**



## *Background*

Prediction in Ungauged Basins (PUB) is an initiative that emerged out of discussions among IAHS members on the World-Wide Web and during a series of IAHS sponsored meetings in Maastricht (July 18-27, 2001), Kofu (March 28-29, 2002) and Brasilia (November 20-22, 2002) about the need to reduce the predictive uncertainty in hydrological science and practice.

PUB aims to shift the prediction of stream flow, sediment and water quality variables from calibration-based to new, and largely understanding-based methods. It therefore:

- Improves the existing hydrological models in terms of their ability to predict in ungauged basins through appropriate measures of predictive uncertainty, and
- Develops new, innovative models and approaches to capture space-time variability of hydrological processes for making predictions in ungauged basins, with a major reduction in predictive uncertainty

PUB has the following objectives:

- Advance the ability of hydrologists worldwide to predict the fluxes of water and associated constituents from ungauged basins, along with estimates of predictive uncertainty.
- Advance the knowledge and understanding of climatic and landscape controls on hydrological processes occurring at all scales, in order to constrain the predictive uncertainty.
- Demonstrate the value of data for hydrological predictions, and provide a rational basis for future data acquisitions, including alternative data sources, by quantifying the links between data and predictive uncertainty.
- Advance the scientific foundations of hydrology, and provide a scientific basis for sustainable river basin management.
- Actively promote capacity building activities in the development of appropriate scientific knowledge and technology to areas and communities where it is needed.

At present, serious water-related problems all over the world are exerting growing impacts on the existences of millions of people in developing countries. As we know, water resources are extremely uneven-distributed in China both temporally and spatially due to its natural and geographical conditions. For the recent years, China has been increasingly perplexed by such water-related problems as flood, drought, water shortage, water pollution and soil erosion. It has already constituted a major constraint to China's economic and social development, especially in the West of China centered by Sichuan, Yunnan and Guizhou provinces, where high mountains and plateaus are located. Many mountainous rivers originate in this region and bring about rich water resources, especially the potential of hydropower development. During the implementation of National Strategies of China Western Development in recent years, these water-related problems become even worse due to complex natural changes and human activities in these mountainous watersheds where ground observation are almost unavailable. It is against such background that hydrological modeling and integrated water resources management strongly call for the innovations of approaches, techniques and theories. The key issue is how to make prediction in ungauged or poor-gauged mountainous basins with a major reduction in predictive uncertainty.

The 1<sup>st</sup> International Symposium of China-PUB was successfully held at Tsinghua University in Beijing, China, in September 2006. For promoting the exchanges among hydrologists, managers and engineers and

for discussing the research progresses of the PUB project, IAHS and China-PUB National Steering Committee suggest holding “The International Symposium of IAHS-PUB and the 2<sup>nd</sup> International Symposium of China-PUB”

## **Themes of the Symposium**

The theme of the symposium is Hydrological Modeling and Integrated Water Resources Management in Ungauged Mountainous Watershed. The general topics, but not limited, are classified as follows:

### **A. Prediction uncertainty in hydrological models**

- Uncertainty analysis in hydrological predictions (rainfall and other meteorological data, model structure and parameter)
- Snow-melting and Evapotranspiration estimation
- Scale issue (spatial scale of the topography and rainfall input, REW scale etc)
- Soil-vegetation-atmosphere interaction
- Data assimilation
- Interaction of surface water and groundwater

### **B. Understanding of hydrological processes based on the new observation techniques**

- Isotopic hydrology
- Spatial observation and analysis technology
- Ecohydrology
- Remote Sensing hydrology

### **C. Integrated water resources management**

- Virtual water
- Impact of climate changes on hydrological response and water resources
- Water induced disaster management (floods, debris flow, soil erosion and landslide etc)
- Drought and low flow

### **D. River eco-environment protection**

- Soil erosion and river sedimentation
- Water pollution and river ecosystem
- River eco-environmental legislation

## **Abstracts**

Abstracts must clearly indicate the contents of the full paper, including methods adopted and main conclusions obtained. For the convenience of reviewing, some important figures, tables and animations of simulating results can be submitted as a supplementary of the abstract. As for the length of the abstract, it should not be more than one page of A4 paper. The proposed papers must be of good quality in theories or technical approaches. The abstracts shall include author's and co-author's full name, addresses, telephone and fax numbers as well as e-mail addresses.

The format of full length paper, etc. will be provided in the 2<sup>nd</sup> announcement.

## Review and Publication

Manuscripts will be reviewed by international experts. Papers past through peer review and have high qualities will be selected to publish in a special issue of the IAHS Publication (red book).

## Language and Proceedings

The official language of the symposium is English. All papers submitted to the symposium and all academic presentations during the symposium will be in English. Accepted papers will be included in the conference proceedings.

## Date & Venue

The conference will be held at the Shangri-la Hotel, Chengdu, China on November 7<sup>th</sup> - 9<sup>th</sup> 2008. The Shangri-la Hotel is a 5-star hotel with a convenient traffic/communications, located at the Southwest of Chengdu and near to the center, and also at a vicinity of Sichuan University.

For more information about the venue, please visit

<http://www.shangri-la.com/en/property/chengdu/shangri-la>

For more information about Chengdu, please visit

<http://www.chengdu.gov.cn/echengdu/>

## Key Date

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Receipt of abstracts                | 30 <sup>th</sup> June 2008      |
| Notification of abstract acceptance | 15 <sup>th</sup> July 2008      |
| Early registration                  | 10 <sup>th</sup> September 2008 |
| Receipt of full length paper*       | 10 <sup>th</sup> November 2008  |

\* Note: Principally full length papers should be submitted before the conference. However, to guarantee the quality of paper and to leave more available time for authors to prepare their papers, the full length paper can be submitted during or immediately after the conference.

## Conference Fees

|                         | Early<br>Registration(US\$) | Late<br>Registration(US\$) |
|-------------------------|-----------------------------|----------------------------|
| Authors/ Participants   | 350                         | 400                        |
| Accompanying<br>persons | 200                         | 300                        |
| Students                | 200                         | 300                        |

The Conference fees for Authors/Participants include the proceedings, attendance to all technical sessions, lunches and refreshments, welcome reception and conference banquet.

The Conference fees for Accompanying Persons will cover the welcome reception and conference banquet. A social program will possibly be organized, depending on the number of accompanying persons (with additional fees).

The Conference fees for Students include the proceedings and the attendance to all technical sessions.

Note: traveling and lodging costs will be borne by the attendants themselves.

## **Financial supports**

Limited financial assistances are available for some participants. Details of the application form, regulations and etc. will be provided in the 2<sup>nd</sup> announcement.

## **Technical visits and tours**

### **1. Technical Visits (During the Conference)**

One-day technical visits will be arranged to visit Dujiangyan, which is a great water irrigation work built in 256 B.C., comparable with the Great Wall of China.

### **2. Post-Conference Technical Tours**

Routes for post-conference technical tours will be arranged according to the number of participants. Fees will be charged according to expenditure.

Route 1: Chengdu- Jiuzhaigou Valley (4 days)

Route 2: Chengdu' Jinsha Heritage Site (1 days)

Route 3: Chengdu- Sangxingdui anicent city (1day)

Route 4: Chengdu- Leshan Giant Buddha-Mt. Emei (3 days)

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### Web-site:

<http://www.scu.org.cn/home/home.asp>

<http://www.cig.ensmp.fr/~iahs/>

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