

# **Final Report**

## **Young Scholar Summit Program in China (2011)**

### **Project Summary:**

With the economic booming and west development, a number of water-related problems have become a concern, including flooding, soil erosion and sedimentation, debris flow, barrier lakes from earthquake, nonpoint source pollution, stream ecological degradation, etc. Given the vulnerable environment in the west and increasing human disturbance, it is essential to understand the dynamics and impacts of human activities and global climate change on fundamental processes of hydrology, fluvial geomorphology, water quality, and ecology in order to develop sustainable policies to ensure economic prosperity and ecological integrity in the west. CPGIS, in conjunction with Sichuan University, organized the CPGIS young scholar summit meeting in China in the summer of 2011. The theme of the meeting was Advanced geospatial technology in water-related disaster prevention. About 100 people attended the workshop, which include faculty members, graduate students from Sichuan University, Institute of Mountain Hazards and Environment (IMHE) and local governmental officials, Application of Geo-technology in Water Resources in different regions of the world was introduced to local audience. Local scientists also covered the application of GIS and RS on how to deal with the Wenchuan Earthquake-induced landslide lakes. CPGIS Young Scholar Summit committee would like to thank all the support from the State Key Laboratory of Hydraulics and Mountain River Engineering, Sichuan University.

### **Detailed Schedule:**

#### **CPGIS Young Scholar Summit Meeting at Sichuan University**

**Date:** June 27-30, 2011

Co-organizers: Dr. Shixiong Hu and Dr. Shuyou Cao

June 27 Arrive in Chengdu pick up from Shuangliu Airport and check in hotel

June 28

Morning: Lecture for public

8:30 am Opening Ceremony

9am Dr. Wei Luo: Application of Geospatial Technology to Water Resources in USA

9:45 am Dr. Lihua Zhao: Application of Geospatial Technology to Water Resources in Australia

10:30 am Break (15 minutes)

10:45 am Dr. Jinsongdi Yu: Application of Geospatial Technology to Water Resources in Europe

11:30am Dr. Desheng Liu: Application of Remote Sensing in Water Resources Management

12:30pm Lunch

Afternoon: Research Presentation

2:30 pm Dr. Shixiong Hu: Application of GIS in Watershed Modeling

3:00 pm Dr. Desheng Liu: Land Cover Change and Its Impact on

Hydrological Processes in Monday Creek Watershed, Ohio

3:30 pm Dr. Wei Luo: On spatial pattern of surface dissection and estimating subsurface hydraulic conductivity

4:00-4:10 Break

4:10 pm Dr. Jinsongdi Yu: Publish the Just in Time Solutions for Water Observation Services

4:40 pm Dr. Lihua Zhao: Sustainable Residential Planning on Water Management in New South Wales, Australia

5:10 pm Dr Wenjiang Zhang: Remotely sense the potential landslides induced by Wenchuan Earthquake

6:00 pm Dinner

June 29 City Tour and tour to Dujiangyan

June 29 (late afternoon) or June 30(Morning), leave Chengdu

Acknowledgement: This workshop was supported by a key NSF-China project (No. 50739002)

Pictures:



Group pictures with local organizers in Sichuan University



Speakers from CPGIS (left to right): Dr. Jinsongdi Yu (Germany), Dr. Desheng Liu (USA), Dr. Wei Luo (USA), Dr. Shixiong Hu (USA), Dr. Lihua Zhao (Australia)



Dr. Wei Luo, Department of Geography, Northern Illinois University



Dr. Lihua Liu, Research & Analytical Services , Corporate Governance & Policy Division, NSW Department of Planning, Australia



Dr. Yujinsong Di, Center of Advanced Systems Engineering, Jacobs University, Bremen, Germany



Dr. Shixiong Hu, Department of Geography, East Stroudsburg University of PA



Dr. Desheng Liu, Department of Geography, Ohio State University





Discussion after the lectures



Dr. Shuyou Cao, local organizer, then-director, State Key Laboratory of Hydraulics and MountainRiver Engineering, Sichuan University