



## Workshop on Hydrology and Water Resources (WHWR-2015)

(Supported by 111 Project “High Efficiency Water Use in Agriculture”)

---

**Date:** 10/23/2015 Friday

**Venue:** Room 304, College of Water Resources and Civil Engineering, CAU east campus

### Session 1 Chair: Prof. Guanhua Huang

**8:30-8:40** Introduction of workshop’s background and guests

**8:40-8:50 Shaozhong Kang**, Professor, Director of Center for Agricultural Water Research in China, China Agricultural University; Academician of Chinese Academy of Engineering

**Topic:** welcome speech

**8:50-9:20 Jean-Yves Parlange**, Professor, Cornell University; Member of National Academy of Engineering, USA

**Topic:** Wetting front instability in aquifers

**9:20-9:50 Wilfried Brutsaert**, Professor, Cornell University; Member of National Academy of Engineering, USA

**Topic:** Generalized complementary principle for the estimation of evaporation from a drying landscape

**9:50-10:10 Group photo taking and Coffee break**

### Session 2 Chair: Prof. Jan Boll

**10:10-10:40 Tammo Steenhuis**, Professor, Cornell University

**Topic:** Predicting fast flows in the vadose zone

**10:30-11:00 Engel A. Bernard**, Professor, Purdue University

**Topic:** The role of decision support systems in sustainable management of water resources

**11:00-11:30 Guanhua Huang**, professor, China Agricultural University

**Topic:** Multi-scale agro-hydrological modeling: case studies in the Upper Reach of Yellow River and the Middle Reach of Hehei River

**11:30-12:00 Tingwu Lei**, Professor, China Agricultural University

**Topic:** Ring infiltration, measurement and computation

**12:00am-2:00pm Lunch**

### Session 3 Chair: Prof. Tammo Steenhuis

**2:00-2:30 Jan Boll**, Professor, Washington State University

**Topic:** Distributed modeling for agricultural watersheds in the search for critical sources areas

**2:30-4:55 Minghong Cheng**, Associate Professor, China Agricultural University

**Topic:** Effect of soil property on soil erosion and chemical transport under simulated rainfall

**2:55-3:20 Jun Niu**, Associate Professor, China Agricultural University

**Topic:** Vegetation response to severe drought events

**3:20-3:45 Qian Tan**, Associate Professor, China Agricultural University

**Topic:** Robust and flexible water resources management under compound uncertainties

**3:45-4:00 Coffee break**

### Session 4 Chair: Prof. Tingwu Lei

**4:00-4:30 Mitchell Pavao-Zuckerman**, Assistant Professor, Maryland University

**Topic:** Green infrastructure as ecohydrologic and decision-making hotspots in urban social-ecological systems

**4:30-4:50 Xu Xu**, Assistant Professor, China Agricultural University

**Topic:** Modeling and assessing field irrigation water use in a canal system of Hetao, upper Yellow River basin: Application to maize, sunflower and watermelon

**4:50-5:10 Liu Liu**, Assistant Professor, China Agricultural University

**Topic:** Scenario analysis technology for river basin flood risk management in the Taihu Basin, China

**5:10-5:30 Fangfang Li**, Assistant Professor, China Agricultural University

**Topic:** Optimization of large-scale cascade reservoir system with application to three Gorges Project

**5:30-5:50 Yu Han**, Assistant Professor, China Agricultural University

**Topic:** It's as simple as a cake to cut water: Proving flow division theory

**5:50-6:00 Summary remark**

Organized by Center for Agricultural Water Research in China, CAU



**Contact:** Dr. Zailin Huo,

Email: [huozl@cau.edu.cn](mailto:huozl@cau.edu.cn), Tel: 86-1062736762, Mob: 86-10-13811458650

## Invited Speakers

---

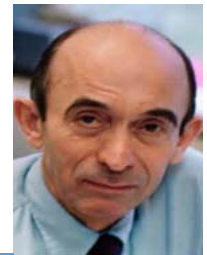


**Prof. Jean-Yves Parlange**, Cornell University

Member of National Academy of Engineering, USA.

Research interest: hydrology, non-point source pollution.

---



**Prof. Wilfried Brutsaert**, Cornell University

Member of National Academy of Engineering, USA.

Research interest: hydrology and fluid mechanics in the environment

---



**Prof. Tammo Steenhuis**, Cornell University

Research interest: soil and water engineering, water management, watershed hydrology, groundwater quality engineering

---



**Prof. Engel A. Bernard**, Purdue University

Research interest: soil and water engineering, water management, watershed hydrology, groundwater quality engineering

---



**Prof. Jan Boll**, Washington State University

Research interest: hydrology, non-point source pollution, water quality, eco-hydrology modeling

---



**Dr. Mitchell Pavao-Zuckerman**, Maryland University

Research interest: biogeochemistry, ecohydrology ecosystem services, social-ecological systems

---