



水文土壤学与自然资源可持续利用 国际学术研讨会



International Workshop on Hydropedology and Sustainable Use of Natural Resources

2013 年 6 月 29-30 日 中国·北京

(第二次通知)

近年来,水文土壤学在理论和方法研究方面取得了较快发展,但目前仍然面临研究方法和理论创新、多尺度综合观测网络体系构建、人才培养等方面的挑战。为了进一步推动水文土壤学的发展,“水文土壤学与自然资源可持续利用国际学术研讨会”将于2013年6月29-30日在北京师范大学举行,该会议将邀请国内外著名学者介绍水文土壤学在研究和应用方面的前沿进展及面临挑战,针对景观-土壤-水文过程的空间异质性及多尺度转换问题进行交流,并探讨水文土壤学在地球关键带研究与自然资源可持续利用中的作用。

现将会议具体安排通知如下:

一、会议时间、地点

时间: 2013 年 6 月 29-30 日

地点: 北京师范大学(北京市海淀区新街口外大街 19 号)英东学术会堂

二、会议主题

主题1: 水文土壤学与地球关键带科学

Hydropedology and Earth's Critical Zone

主题2: 景观-土壤-水文过程空间异质性与多尺度耦合

Heterogeneity and Coupling of Landscape-Soil-Hydrologic Processes across Scales

主题3: 田间监测、制图、模型

Monitoring, Mapping and Modeling

主题4: 水、土、气、生自然资源可持续利用

Sustainable Use of Natural Resources (Water, Soil, Air, and Life)

三、会议组织

主办单位:

北京师范大学资源学院

地表过程与资源生态国家重点实验室
国家自然科学基金委员会

协办单位:

中国农业大学资源与环境学院
土壤与农业可持续发展国家重点实验室
中国土壤学会

组织委员会:

主席: 史培军 北京师范大学, 常务副校长
地表过程与资源生态国家重点实验室, 主任、教授
执行主席: 江源 北京师范大学资源学院, 院长、教授
委员: 李保国 中国农业大学资源与环境学院, 教授
张甘霖 中国科学院南京土壤研究所, 研究员
任图生 中国农业大学资源与环境学院, 系主任、教授
彭新华 中国科学院南京土壤研究所, 研究员
孟繁蕴 北京师范大学资源学院, 副院长、副教授
董孝斌 北京师范大学资源学院, 副院长、副教授

会议主席:

李小雁 北京师范大学资源学院, 教授
Henry Lin Pennsylvania State Univ., Professor

四、会议会务安排

1、会议报到

报到时间: 2013 年 6 月 28 日 8:30~20:00, 地点: 北京师范大学京师大厦一楼大厅

2013 年 6 月 29 日 7:30~12:00, 地点: 北京师范大学英东学术会堂一楼大厅

会务人员将在报到时向缴纳注册费的参会人员提供本次研讨会的参会证、餐券及其他相关会议材料。

2、会议注册费缴纳

会议注册费请于 2013 年 6 月 15 日前以信汇方式缴纳, 或在报到现场以现金方式缴纳, 同时请注明“发票单位”、“发票内容”、“发票金额”、“参会人员”信息, 发票将在会议期间统一发放。

3、会议住宿及交通

详见会议第一次通知 (<http://www.bnu.edu.cn/xzhd/50988.htm>)

4、会议交流

(1) 本次研讨会主要围绕四个主题,以大会特邀报告、口头报告及讨论形式进行交流。每一主题将邀请国内外著名学者 Henry Lin、Keith Beven、张甘霖、郑春苗、杨大文等分别作特邀报告,报告结束后预留时间供参会人员和特邀专家进行深入讨论交流。

(2)会议期间,请报告人提前到达会场,在上午 8:00-8:20 或下午 13:30-13:50 将报告(PPT 格式)拷入会议电脑。

(3) 会议议程详见附件一。

五、会议联系方式

会议咨询:

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高晓菊: 电话: 010-58802120

会议食宿安排:

李霞: Email: lixia@bnu.edu.cn, 电话: 010-58802120

会议联系地址:

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邮政编码: 100875

“水文土壤学与自然资源可持续利用”国际学术研讨会组织委员会

(北京师范大学资源学院 代章)

二〇一六年六月四日

附件一：会议议程

June 28, 2013

8:30-20:00 Registration at the lobby of Jingshi Hotel, Beijing Normal Univ.

June 29, 2013

7:00-8:30 Breakfast in Jingshi Hotel		
Opening (Lecture room, second floor of the Yingdong Conference Hall, Beijing Normal Univ.) Moderator: Xiaoyan Li (Professor, College of Resources Science & Technology, Beijing Normal Univ., CHN)		
Time	Speaker	Presentation
8:30-8:35	Xiaoyan Li (Beijing Normal Univ., CHN)	Workshop introduction & overview
8:35-8:45	Leader of Beijing Normal Univ.	Welcome remarks
8:45-8:50	Henry Lin (Chair, Hydropedology Working Group of International Union of Soil Sciences)	Welcome remarks
8:50-9:10	Group Pictures of All Participants	
Theme I – Hydropedology and Earth’s Critical Zone (Lecture room, second floor of the Yingdong Conference Hall, Beijing Normal Univ.) Moderator: Jeffrey J. McDonnell (University of Saskatchewan, CAN) Dawen Yang (Tsinghua Univ., CHN)		
9:15-9:50	Keynote: Keith Beven (Lancaster Univ., UK)	Is Soil Physics based on the Wrong Experiment?
9:50-10:25	Keynote: Henry Lin (Pennsylvania State Univ., USA)	A 3 rd Principle and a Mosaic Theory of Water Flow in Real-World Soils
10:25-10:45	Tea Break (Yingdong Conference Hall)	
10:45-11:10	Invited: Chunmiao Zheng (Peking Univ., CHN)	Modeling the Water Flow and Ecological Processes in an Arid Watershed
11:10-11:35	Invited: Ganlin Zhang (Institute of Soil Science, CAS, CHN)	Soil Changes in Relation to Anthropic Soil Moisture Regimes
11:35-12:00	Invited: Xiaoyan Li (Beijing Normal Univ., CHN)	Shrub Hydropedology: Preferential Water Availability to Deep Soil Layer
12:00-14:00	Lunch Break	Jingshi Hotel
Theme II – Coupling of Landscape-Soil-Hydrologic Processes across Scales (Lecture room, second floor of the Yingdong Conference Hall) Moderator: Daniel Richter (Duke Univ., USA) Tusheng Ren (Professor, College of Resources & Environmental Sciences, China Agricultural Univ., CHN)		
Time	Speaker	Presentation
14:00-14:35	Keynote: Jeffrey J. McDonnell (University of Saskatchewan, CAN)	Groundwater-Surface Water Interactions at the Watershed Scale
14:35-15:00	Invited: Dawen Yang (Tsinghua Univ., CHN)	Modeling of Eco-hydrological Processes in Cold Mountain Region of the Heihe Basin
15:00-15:25	Invited: Xinhua Peng (Institute of Soil Science, CAS,	Dynamics of Soil Cracks in Paddy Fields and its

	CHN)	Consequence on Preferential Flow
15:25-15:40	Zhongli Zhu (Beijing Normal Univ., CHN)	Spatial Variation and Temporal Dynamics of Soil Moisture in Zhangye Oasis-desert Eco-system
15:40-15:55	Tao Peng (Institute of Geochemistry, CAS, CHN)	Study on the Spatial Variability of Soil Hydraulic Conductivities on Karst Slopes Southwest China
15:55-16:15	Tea Break (Yingdong Conference Hall)	
16:15-16:50	Keynote: Lawrence E. Band (University of North Carolina, USA)	Ecosystem Processes at the Watershed Scale: Patterns and Co-evolution of Forest Hydrology, Ecology and Geomorphology in the Southern Appalachians
16:50-17:15	Invited: Qing Zhu (Nanjing Institute of Geography and Limnology, CAS, CHN)	How Does Soil Moisture Response to Precipitation along a Typical Mixed Land-use Hillslope in Taihu Lake Basin, China?
17:15-17:30	Ling Meng (Yantai Institute of Coastal Zone Research, CAS, CHN)	Spatial Variation of Soil Salinity in Agricultural Land and Coastal Marsh of the Yellow River Delta
18:00-20:00	Banquet	Yu Ma Dun Restaurant

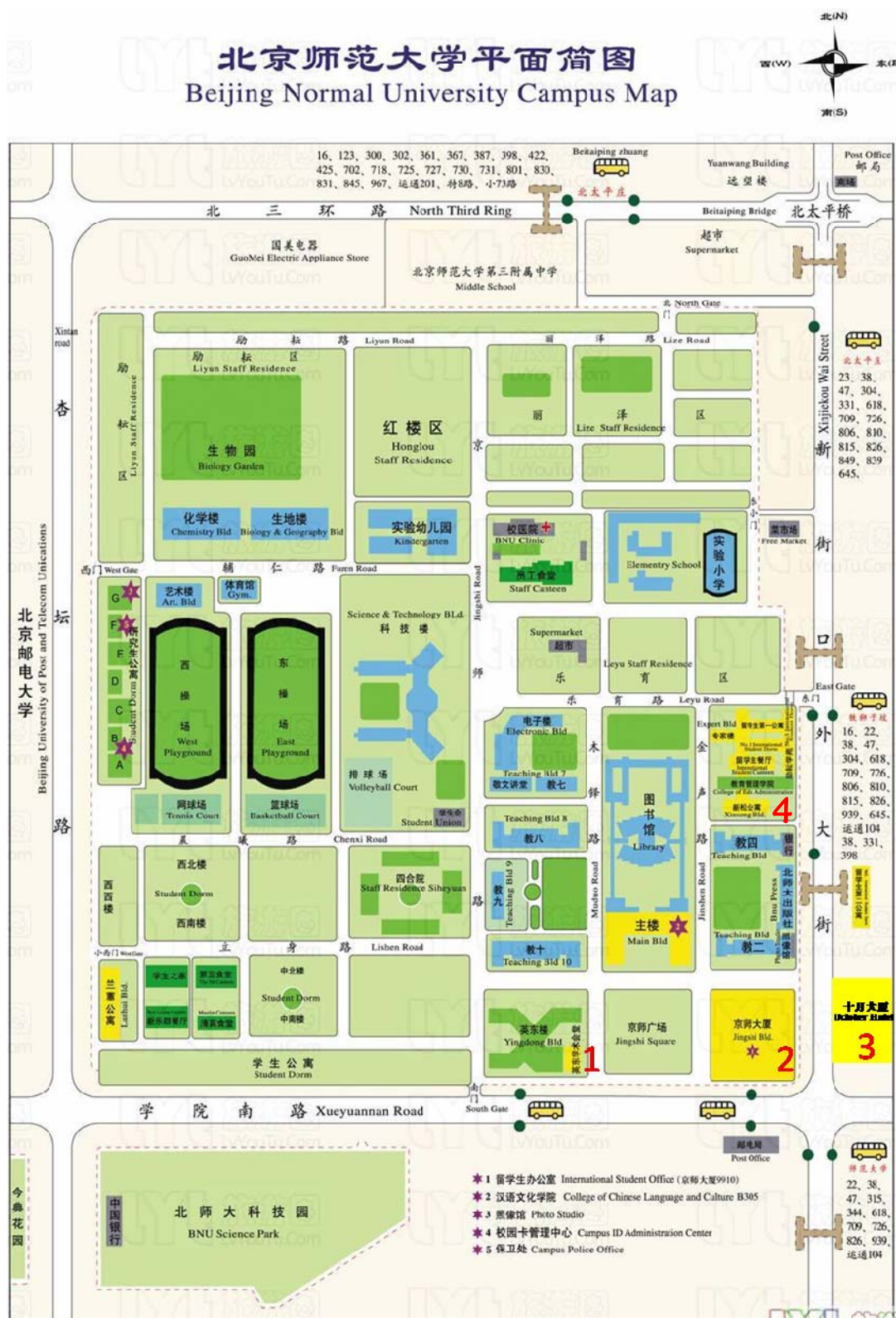
June 30, 2013

7:00-8:30 Breakfast in Jingshi Hotel		
Theme III – Monitoring, Mapping, Modeling, and Managing (Lecture room, second floor of the Yingdong Conference Hall) Moderator: Keith Beven (Lancaster Univ., UK) Xinhua Peng (Professor, Institute of Soil Science, CAS, CHN)		
Time	Speaker	Presentation
8:30-9:05	Keynote: Robert Horton (Iowa State University, USA)	Coupled Heat and Water Movement in Soil: Recent Advances on Measuring Dynamic Soil Water Content, Temperature, Vapor Fluxes and Liquid Water Fluxes
9:05-9:30	Invited: Wolfgang Durner (Technische Universität Braunschweig, GER)	Recent Progress in Determining Soil Hydraulic Properties in the Lab - Technology and Application of HYPROP® and KSAT®
9:30-9:55	Invited: Doug Cobos (Decagon Devices and Washington State Univ., USA)	Achieving Best-possible Accuracy with Dielectric Soil Moisture Sensors
9:55-10:20	Invited: Xin Li (Cold and Arid Regions Environmental and Engineering Research Institute, CAS, CHN)	Capture the Heterogeneity and Quantify the Representation Error: Preliminary Understanding from a Wireless Sensor Network of Soil Moisture
10:20-10:40	Tea Break (Yingdong Conference Hall)	
10:40-11:15	Keynote: Harry Vereecken (Forschungszentrum Jülich GmbH, GER)	Determining Soil Water Content and Hydrological Fluxes in Terrestrial Systems: from Observation to Prediction
11:15-11:40	Invited: Jolene Lafferty (Decagon Devices and Washington State Univ., USA)	Soil Water Potential Measurement Methods

11:40-11:55	Xiao Zhang (China Agricultural Univ., CHN)	A Multi-Needle Heat-Pulse Probe for Measuring Soil Water Evaporation, Soil Thermal Properties, and Soil Water Content in the Field
11:55-12:10	Xiangning Zhu (Beijing LICA United Technology Limited, CHN)	The Novel Application of Laser Spectroscopy Technique for Stable Isotope Measurement
12:10-14:00	Lunch Break	Jingshi Hotel
Theme IV – Sustainable Use of Natural Resources (Water, Soil, Air, and Life) (Lecture room, Second floor of the Yingdong Conference Hall) Moderator: Harry Vereecken (Forschungszentrum Jülich GmbH, GER) Chunmiao Zheng (Peking Univ., CHN)		
Time	Speaker	Presentation
14:00-14:35	Keynote: Daniel Richter (Duke Univ., USA)	A Changing Model of Forest Hydrology: Hydrologic Effects of Forest Cutting and Land Degradation
14:35-15:00	Invited: Guoyu Qiu (Peking University Shenzhen Graduate School, CHN)	Water versus Energy in China
15:00-15:15	Siyue Li (Southern Cross Univ., AUS)	Dissolved Inorganic Carbon and Water-air Interface CO ₂ Emission in the Lower Mekong River
15:15-15:30	Steve Forster (Picarro Inc., USA)	High Precision Isotopic Water Analysis in Soil Science using Cavity Ring-Down Spectroscopy
15:30-15:45	Xiaojing Liu (Institute of Genetics and Developmental Biology, CAS, CHN)	Reclamation of Saline Soils by Freezing Saline Water Irrigation
15:45-16:00	Kaihua Liao (Nanjing Institute of Geography and Limnology, CAS, CHN)	Using Different Multimodel Ensemble Approaches to Simulate Soil Moisture in a Forest Site with Six Traditional Pedotransfer Functions
16:00-16:20	Tea Break (Yingdong Conference Hall)	
16:20-16:55	Keynote: Jan Mulder (Norwegian University of Life Science, NOR)	Hydropedology in sub-tropical forests of south China: Its role in processing nitrogen at the watershed level and in determining source areas for N ₂ O
16:55-17:10	Kosuke Noborio (Meiji Univ., JPN)	Water and heat transport during soil disinfection using hot water
17:10-17:25	Yili Lu (China Agricultural Univ., CHN)	Using Late Time Data Improves the Heat-Pulse Method for Estimating Soil Thermal Properties with the Pulsed Infinite Line Source Theory
17:25-17:40	Li Guo (Beijing Normal Univ., CHN)	Subsurface Lateral Flow Network on a Hillslope Revealed by Time-lapse Ground Penetrating Radar
17:40-18:00	Closing Ceremony	
18:00-20:00	Dinner	Jingshi Hotel

Note: The presentation time includes 5 min discussion.

附件二：北京师范大学平面简图



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| 1. Yingdong Conference Hall | 2. Jingshi Hotel |
| 3. October Hotel | 4. Yu Ma Dun Restaurant |