

2021 年丝绸之路高原生态环保与黄河流域高质量发展

国际产学研用合作研讨会

议题一：农业水土过程与资源高效利用

全球气候变化、人口增长、及社会经济结构的剧烈变化给农业可持续发展带来了巨大挑战。水、土是农业生产中最核心的资源，探明农业生态系统中水土要素的运移循环过程及其高效利用途径，可为农业可持续发展提供重要的科技支撑。为此，我们以“农业水土过程与资源高效利用”为主题，邀请国内专家共同探讨变化环境下农业生态系统中的水文与物质循环过程，以及水土资源高效利用的机制与途径，以推动农业的持续高效发展，助力乡村振兴。现将会议有关事项通知如下：

一、会议时间

2021 年 11 月 1 日（周一）

二、会议语言及形式

会议语言为英语。研讨会采用线上会议形式，会议平台采用 Zoom，会议链接如下：

<https://zoom.us/j/98501351673?pwd=Q1VITzhMRENkR2FJT25FRTdIOEhJUT09>

会议号：985 0135 1673; 密码：812913

三、会议日程

会议共邀请 18 位国内外专家做学术报告，其中中方专家 12 个，外方专家 6 个，具体日程如下：

报 告			
主持人：高晓东			
时间	报告题目	报告人	单位
8:25-8:50	Urban metabolism and the implications to groundwater management and governance	Ricardo Hirata 教授	圣保罗大学 (巴西)
8:50-9:15	Sustainability of Irrigated Agriculture in California's Central Valley	Isaya Kisekka 副教授	加州大学戴维斯分校 (美国)
9:15-9:40	Ecological restoration and its response in the Yellow River Basin	余新晓 教授	北京林业大学 (中国)
9:40-10:05	Infiltration, soil moisture, runoff and erosion of typical plant communities on steep gully slopes of the Loess Plateau	张光辉 教授	北京师范大学 (中国)
主持人：高学睿			
10:05-10:30	Soil rock fragments: unquantified players in terrestrial carbon and nitrogen cycles	朱青 研究员	中国科学院南京地理与湖泊研究所 (中国)
10:30-10:55	How does long-term N fertilization affect soil N ₂ O emission: The key role of pH	程谊 教授	南京师范大学 (中国)
10:55-11:20	Soil physical health is the key to sustainable agriculture	Wei Hu 高级研究员	新西兰植物与食品研究院 (新西兰)
11:20-11:45	Soil water management in New Zealand	Henry Chau 高级讲师	林肯大学 (新西兰)
主持人：张林			
14:00-14:25	Feedbacks between vegetation restoration and local precipitation over the Loess Plateau in China	张宝庆 教授	兰州大学 (中国)
14:25-14:50	Groundwater quality research in Western China: Opportunities and challenges	李培月 教授	长安大学 (中国)

14:50-15:15	The impacts of groundwater use in agricultural irrigation on streamflow depletion	李强 教授	西北农林科技大学 (中国)
15:15-15:40	Structural optimization and application of hydraulic performance and anti-clogging of micro-irrigation filter	喻黎明 教授	昆明理工大学 (中国)
15:40-16:05	The impact of consumption and trade on regional water scarcity	赵旭 教授	山东大学 (中国)
主持人：李强			
16:05-16:30	待定	Marie Gosme 研究员	蒙彼利埃大学 (法国)
16:30-16:55	Soil-Water-Plant-Energy Interaction in Cold and Dry Regions: Tibetan Plateau as the Research Testbed	Yijian Zeng 副教授	屯特大学 (荷兰)
16:55-17:20	Blue-green water transport and efficiency in water-saving irrigated paddy field	操信春 教授	河海大学 (中国)
17:20-17:45	Dynamic zoning management for variable irrigation of large sprinkler	赵伟霞 教高	中国水利水电科学研究院 (中国)

**2021 Silk Road International Conference on the Cooperation and
Integration of Industry, Education, Research and Application**

**Symposium #1: Water and Mass circulation & Resources Utilization
in Agroecosystems**

Climate change, population boom and dramatic changes in society bring serious challenges to the sustainable development of global agriculture. Water and soil are the most precious resources in agricultural production. Exploring the circulation of water and mass, and the way to efficient utilization of these resources can provide scientific and technological support for agricultural sustainability. Therefore, we are pleased to announce the “Symposium on Water and Material circulation & Resources Utilization in Agroecosystems”. We will invite domestic and foreign experts to give talks on this topic, aiming to provide insights into the sustainable development of agriculture under changing environment. Information are presented as follows.

1. Date: 1st November 2021
2. Official language: English
3. Online meeting platform: Zoom

<https://zoom.us/j/98501351673?pwd=Q1VITzhMRENkR2FJT25FRTd>

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ID: 985 0135 1673; Code: 812913

Lecture

Chair: Xiaodong Gao

Time	Title	Speaker	Institute
8:25-8:50	Urban metabolism and the implications to groundwater management and governance	Ricardo Hirata Professor	University of São Paulo (Brazil)
8:50-9:15	Sustainability of Irrigated Agriculture in California's Central Valley	Isaya Kisekka Associate Professor	University of California, Davis (USA)
9:15-9:40	Ecological restoration and its response in the Yellow River Basin	Xinxiao Yu Professor	Beijing Forestry University (China)
9:40-10:05	Infiltration, soil moisture, runoff and erosion of typical plant communities on steep gully slopes of the Loess Plateau	Guanghui Zhang Professor	Beijing Normal University (China)

Chair: Xuerui Gao

10:05-10:30	Soil rock fragments: unquantified players in terrestrial carbon and nitrogen cycles	Qing Zhu Researcher	Nanjing Institute of Geography & Limnology, CAS (China)
10:30-10:55	How does long-term N fertilization affect soil N ₂ O emission: The key role of pH	Yi Cheng Professor	Nanjing Normal University (China)
10:55-11:20	Soil physical health is the key to sustainable agriculture	Wei Hu Senior Scientist	The New Zealand Institute for Plant and Food Research Limited (New Zealand)
11:20-11:45	Soil water management in New Zealand	Henry Chau Senior Lecturer	Lincoln University (New Zealand)

Chair: Lin Zhang

14:00-14:25	Feedbacks between vegetation restoration and local precipitation over the Loess Plateau in China	Baoqing Zhang Professor	Lanzhou University (China)
14:25-14:50	Groundwater quality research in Western China: Opportunities and challenges	Peiyue Li Professor	Chang'an University (China)
14:50-15:15	The impacts of groundwater use in agricultural irrigation on streamflow	Qiang Li Professor	Northwest A&F University

	depletion		(China)
15:15-15:40	Structural optimization and application of hydraulic performance and anti-clogging of micro-irrigation filter	Liming Yu Professor	Kunming University of Science and Technology (China)
15:40-16:05	The impact of consumption and trade on regional water scarcity	Xu Zhao Professor	Shandong University (China)
Chair: Qiang Li			
16:05-16:30	待定	Marie Gosme Researcher	Universit éde Montpell (France)
16:30-16:55	Soil-Water-Plant-Energy Interaction in Cold and Dry Regions: Tibetan Plateau as the Research Testbed	Yijian Zeng Associate Professor	University of Twente (Netherlands)
16:55-17:20	Blue-green water transport and efficiency in water-saving irrigated paddy field	Xinchun Cao Professor	Hohai University (China)
17:20-17:45	Dynamic zoning management for variable irrigation of large sprinkler	Weixia Zhao Professor	China Institute of Water Resources and Hydropower Research (China)