

# 2023 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

## 议题三：农业生态环境保护与高质量发展

会议时间：北京时间，2023年12月13日

会议地点：西北农林科技大学资源环境学院报告厅

Zoom会议：869 7099 4420 密码：1234

分论坛报告		
时间	活动内容	
08:10-08:20	分论坛开幕式	主持人：李志 教授
报 告		
主持人：何海龙 教授；张雪辰 副教授		
时间	报告题目	报告人
08:20-08:45	美国西部干旱缺水地区农业生态土壤管理经验	Manoj Shukla 教授 新墨西哥州立大学
08:45-09:10	绿肥驱动土壤健康理论与实践	曹卫东 研究员 中国农科院
09:10-09:35	基于优化传感器放置和机器学习算法的作物根区水分管理	Scott Jones 教授 美国犹他州立大学
09:35-10:00	基于介电与热工测量的土壤物理特性测定	盛文溢 副教授 中国农业大学
茶歇：10:00-10:20		
10:20-10:45	土壤结构：连接土地利用压力与环境影响的纽带	Wei Hu 研究员 新西兰植物与食品研究所
10:45-11:10	苹果树根系水分吸收如何影响土壤水平衡？	李志 教授 西北农林科技大学
11:10-11:35	资源利用提高农田氮肥使用效率和可持续养分管理对农业生态环境转变至关重要	Nandula Raghuram 教授 Indraprastha University

11:35-12:00	微生物生理和真菌群落快速更替促进气候变暖下保护性农业的土壤碳累积	田静 副教授 中国农业大学
<b>午餐： 12:00-14:20</b>		
<b>主持人：殷睿 教授；黄冬琳 博士</b>		
14:20-14:45	三江源地区地表温度时空变化特征与多年冻土监测研究	Raul-David Șerban 研究员 意大利阿尔卑斯山地环境研究所
14:45-15:10	基于物理约束深度学习、静态-动态输入耦合模型的多层次土壤水肥状况预测精度提升	Nasrin Azad 博士 西北农林科技大学
15:10-15:35	水土保持和土地可持续管理	Hussain Qaiser 教授 Pir Mehr Ali Shah 干旱农业大学
15:35-16:00	生物炭上持久性自由基的形成及其对土壤生物潜在毒性危害	贾汉忠 教授 西北农林科技大学
<b>茶歇： 16:00-16:20</b>		
16:20-16:45	精确量化土壤-植物-大气连续体中环境过程和压力不可或缺	Vilim Filipovic 教授 澳大利亚昆士兰大学
16:45-17:10	电微生物学在提高农业产业废弃物生物能源回收和土壤生物修复技术中的应用	Litti Iurii Vladimirovich 教授 俄罗斯生物技术研究中心
17:10-17:35	利用自然的方法修复退化土壤-覆盖作物的影响	Csilla Hudek 副研究员 兰卡斯特大学
17:35-18:00	巴基斯坦土壤活性氮污染现状与治理研究	Tariq Aziz 副教授 费萨拉巴德农业大学
18:00-18:10	分论坛闭幕式	主持人：李志 教授

# 2023 International Symposium on Plateau Ecological Environment Protection and High-quality Development of the Yellow River Basin

## Parallel Session 3: Agroecological Environment Protection and High-Quality Development

Meeting Time: December 13, 2023, Beijing Time

meeting venue: Lecture Hall, College of Resources and Environment, Northwest A&F University

Zoom: 869 7099 4420 Password: 1234

<b>Opening ceremony and presentations</b>		
<b>Time</b>	<b>Agenda</b>	
08:10-08:20	Opening Ceremony of Parallel Session	Chair: Li Zhi, Professor, Vice Dean
<b>Presentation</b>		
<b>Chair: He Hailong, Zhang Xuechen</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
08:20-08:45	Agroecological soil management practices for arid water-limited regions of the Western US	Manoj Shukla, Professor New Mexico State University
08:45-09:10	Theory and practice of green fertilizer driving soil health	Cao Weidong, Senior Researcher Chinese Academy of Agricultural Sciences
09:10-09:35	Crop Root Zone Water Management using Optimized Sensor Placement and Machine Learning Algorithms	Scott Jones, Professor Utah State University
09:35-10:00	Determination of Soil Physical Properties Based on Dielectric and Thermal Measurements	Sheng Wenyi, Associate Professor China Agricultural University
<b>Coffee Break: 10:00-10:20</b>		
10:20-10:45	Soil structure: Linking land use pressures to environmental outcomes	Wei Hu, Senior Scientist New Zealand Plant & Food Research
10:45-11:10	How does root water uptake of apple tree influence soil water balance?	Li Zhi, Professor Northwest A&F University
11:10-11:35	Resource utilisation for farm nitrogen use efficiency and sustainable nutrient management is critical for agroecological transition	Nandula Raghuram, Professor Indraprastha University

11:35-12:00	Microbial physiology and rapid fungal community turnover enhance soil carbon accrual by conservation agriculture under decade-long warming	Tian Jing, Associate Professor China Agricultural University
<b>Lunch: 12:00-14:20</b>		
<b>Chair: Yin Rui, Huang Donglin</b>		
14:20-14:45	Ground surface temperature variability and permafrost detection in the Head water Area of the Yellow River	Raul-David Șerban, Senior Researcher, Institute for Alpine Environment
14:45-15:10	Improving accurate estimation of multiple depths soil moisture and fertilizer regime using hybrid static-dynamic inputs of physically based deep learning model- Looking at its application in fertigation optimization	Nasrin Azad, Postdoc Northwest A&F University
15:10-15:35	Soil and water conservation and sustainable land management	Hussain Qaiser, Professor Pir Mehr Ali Shah Arid Agriculture University
15:35-16:00	Formation of persistent free radicals on biochar and its potential toxicity to soil organisms	Jia Hanzhong, Professor Northwest A&F University
<b>Coffee Break: 16:00-16:20</b>		
16:20-16:45	The necessity for precise quantification of environmental processes and pressures in soil-plant-atmosphere continuum	Vilim Filipovic, Professor University of Queensland
16:45-17:10	Electromicrobiology for Enhanced Bioenergy Recovery from Agro-Industrial Wastes and Soil Bioremediation	PLitti Iurii Vladimirovich, Professor, Research Centre of Biotechnology RAS, Moscow
17:10-17:35	Using nature-based solutions for restoring degraded soils: impact of cover cropping	Csilla Hudek, Associate Professor Lancaster University
17:35-18:00	Status and management of reactive nitrogen pollution in Pakistan	Tariq Aziz, Associate Professor University of Agriculture Faisalabad
18:00-18:10	Closing Ceremony of Parallel Session	Chair: Li Zhi, Professor, Vice Dean