SNCC2024 首届"土壤序列养分循环及其对生态恢复的启示"国际会议

THE 1st INTERNATIONAL SYMPOSIUM ON SOIL NUTRIENT CYCLING ALONG CHRONOSEQUENCES AND ITS IMPLICATIONS FOR ECOLOGICAL RESTORATION

3rd CIRCULATION



Background

Vegetation restoration following large-scale geological disturbance is often limited by nutrient availability and the coarse texture of debris. Soil chronosequences develop on volcanic deposits, sand dunes, glacier forelands, and other consequences of catastrophic disturbance. Studies of these chronosequences have demonstrated how pedogenic processes interact with plant and microbial succession to regenerate soil nutrient cycling and vegetation during long-term ecosystem development. Understanding these synergetic processes can help to facilitate vegetation restoration on pedogenically compromised areas such as landslides, mining wasteland and alpine barelands.

The 1st International Symposium on Soil Nutrient Cycling along Chronosequences and its Implications for Ecological Restoration will be held between **6-11 May 2024** in Chengdu, Sichuan Province, China. Organized by Institute of Mountain Hazards and Environment, Chinese Academy of Sciences (CAS), the meeting will bring together scientists studying soil chronosequences and ecosystem restoration to present findings and discuss state-of-the-art concepts in the discipline.

The meeting will be held at Institute of Mountain Hazards and Environment, Chinese Academy of Sciences in Chengdu and will combine oral and poster presentations with workshop-style discussion sessions. The week will conclude with a post-conference field trip to the spectacular Hailuogou postglacial soil choronosequence on the eastern slope of Gongga Mountain (Minya Konka), approximately 290 km from Chengdu, SW China.

The output of this workshop will be a special issue in Plant and Soil, Journal of Mountain Science and Mountain Research (Chinese version), respectively. This will include a workshop synthesis article as well as primary research papers from chronosequences around the world.



大规模地质扰动后的植被恢复通常受到养分可利用性和粗颗粒物质含量较高的土壤质地等因素限制。在火山堆积物、沙丘、冰川前缘和其他灾难性扰动上会形成土壤序列。对这些土壤序列的研究,有助于认识土壤发育过程中土壤养分可利用性变化、土壤序列上植物和微生物的演替,以及土壤养分循环与植被演替的协同作用。理解土壤序列上养分循环、植被演替及二者的协同关系,对开展滑坡体、矿山废弃地和高海拔区裸地等受损地区的植被恢复具有重要指示意义。

首届"土壤序列养分循环及其对生态恢复的启示"国际会议将于2024年5月6-11日在四川省成都市举行。会议由中国科学院、水利部成都山地灾害与环境研究所及国内外多个研究机构和部门联合发起,旨在提供学术研讨和信息交流的平台,汇集土壤序列养分循环和生态系统恢复等领域的最新研究成果,探讨相关研究发展的国际热点与前沿。

SNCC2024



Conference Themes and Objectives

The themes include but are not limited to::

- ✓ Weathering and pedogenic processes along chronosequences
- ✓ Biogeochemical processes of nutrient mobilization during pedogenesis and primary succession along chronosequences
- ✓ The roles of microorganisms in nutrient cycling during pedogenesis and primary succession along chronosequences
- ✓ Mechanisms of plant acquisition and utilization of nutrients along chronosequences
- ✓ Plant-microorganism interaction in nutrient cycling during primary succession
- ✓ Inspiration of knowledge on nutrient cycling along chronosequences for ecological restoration on harsh debris environment in geological hazard areas

The workshop will provide a forum for the exchange of information, ideas, and progress in our understanding of soil nutrient cycling along chronosequences and its relation to vegetation development, with an emphasis on the use of this knowledge to restore ecosystems following catastrophic disturbance.

Important Dates

20 Dec 2023 First circulation
 8 Mar 2024 Second circulation
 20 Apr 2024 Deadline for early-birds registration

25 Apr 2024 Deadline for abstract submission

3 May 2024 Deadline for online registration

6-11 May 2024 Conference



会议主题

会议主题包括但不限于:

- ✓ 土壤序列上风化和成土过程
- ✓ 土壤序列上成土和原生演替过程中养分活化的生物地球化学过程
- ✓ 在土壤年代序列成土和原生演替过程中微生物对养分循环的作用
- ✓ 土壤序列上植物养分获取和利用机制
- ✔ 原生演替过程中植物-微生物互作对养分循环的影响
- 土壤序列上养分循环理论对恶劣环境下地灾体生态恢复的启示

此次研讨会将提供一个交流信息、观点和对土壤养分循环沿年代序列的理解以及它与植被发展的关系的论坛,重点关注利用这一知识来恢复生态系统在灾难性干扰之后的内容。

重要日期

2023年12月10日 第一轮通知发布

2024年03月08日 第二轮通知发布

2024年04月20日 早鸟价截止日期

2024年04月25日 投稿截止日期

2024年05月03日 线上注册截止日期

2024年05月6-11日 会议日期



	Time	Program	Venue
6-May	08:00 - 21:00	On-site registration & Check-in	Xinglong Lakeside Hotel
7 May	09:00 - 18:30	On-site registration	Institute of Mountain
7-May	09:00 - 18:30	Opening Ceremony & Presentation	Hazards and Environment, Chinese
8-May	09:00 - 18:30	Presentation& Closing Ceremony	Academy of Sciences
9-May	09:00 - 18:30	Departing for Mount Gongga	
10-May	09:00 - 18:30	Post-conference Field Trip Mount Gon	
11-May	09:00 - 18:30	Back to Hotel & Retreat	

並 会议安排

	时间	内容	地点
5月06日	08:00 - 21:00	会议签到	兴隆湖畔酒店
E □ 07 □	09:00 - 18:30	会议签到	
5月07日	09:00 - 18:30	开幕式 & 学术论坛	中国科学院、水利部 成都山地灾害与环境研究所
5月08日	09:00 - 18:30	学术论坛& 闭幕式	190 H. H. 190 J. 1 90 91 7 0 7 1
5月09日	09:00 - 18:30	出发前往贡嘎山	
5月10日	09:00 - 18:30	会议考察	贡嘎山
5月11日	09:00 - 18:30	返回成都	

°— Conference Registration

Conference Fee

	Standard Registration			
Category	Overseas	Domestic	On-site Registration	
	(By May 3, 2024)	(By May 3, 2024)	(After May 4, 2024)	
Student	USD 400	RMB 2800	RMB 2800	
Regular participant	USD 420	RMB 3000	RMB 3000	

을 会议注册

会议费

注册类型	费用标准		
在州天主	外宾 (5月3日前)	内宾 (5月3日前)	现场缴费 (5月4日后)
学生代表	400 美元	2800 人民币	2800 人民币
参会代表	420 美元	3000 人民币	3000 人民币

❷ Oral Preferred (Updating) 演讲嘉宾 (持续更新中)

Speaker	Institution	Title
Hans Lamber	The University of Western Australia	Changes in nutrient-acquisition strategies along the Jurien Bay chronosequence to inspire mine-site restoration approaches
Ganlin Zhang	Nanjing Institute of Geography & Limnology, Chinese Academy of Sciences	Updating
Ben Turner	Gyeongsang National University, South Korea	The ecological significance of phosphorus dynamics during long-term pedogenesis
Yanhong Wu	Institute of Mountain Hazards and Environment, Chinese Academy of Sciences	Nutrient cycling on the Hailuogou soil chronosequence and its implication on vegetation restoration
Wolfgang Wilcke	Karlsruhe Institute of Technology, Germany	Fast nitrogen accumulation in ecosystems along a 127-year glacial retreat chronosequence at the subtropical Mount Gongga, China
Jianbo Shen	China Agricultural University	Rhizosphere engineering for improving phosphorus resource use efficiency and crop productivity
Bol Roland	Forschungszentrum Jülich, Germany	Colloidal P in the glacier foreland soil chronosequence of New Zealand's Franz Josef Glacier
Edith Bai	Northeast Normal University	The important role of soil microbes in carbon and nitrogen cycling
Xiaobing Zhou	Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences	Microbial community composition of biological soil crusts modulates nitrogen deposition induced changes in microbial necromass carbon
Jianqing Du	University of Chinese Academy of Sciences	Resource control over grassland productivity-biodiversity relationships
Jinling Yang	Institute of Soil Science, Chinese Academy of Sciences	Vertical distribution characteristics of soil nutrient elements in an ecological barrier Area, Sichuan-Yunnan, China
Xinhua He	The University of Western Australia	Contrasting community assembly of arbuscular mycorrhizal fungi among four seasons in a 10-year natural fallow purple soil
Linchuan Fang	Wuhan University of Technology	Unraveling the hidden world: Spatial heterogeneity and determinants of deep soil microbiomes
Wenfeng Cong	China Agriculture University	Harnessing crop diversification and nutrient management to sequester C and enhance nutrient use efficiency
Enqing Hou	South China Botanical Garden, Chinese Academy of Sciences	A mechanistic representation of plant-available phosphorus in soil and a data assimilation approach to quantify it



Udhab Raj Khadka	Tribhuvan University, Nepal	Implication of forest management in soil quality enhancement and building resilience: Case of the Panchase protected forest, Gandaki Province, Nepal	
Line of the NAVeneral	Institute of Geochemistry,	Development and application of phosphate oxygen isotope analysis technology for environmental	
Jingfu Wang	Chinese Academy of Sciences	samples	
Van Vang	Institute of Mountain Hazards and Environment,	Plant nutrient-acquisition strategies and its mechanisms of alpine meadow to permafrost degradation in	
Yan Yang	Chinese Academy of Sciences	the Tibetan Plateau	
Fei Peng	Northwest Institute of Eco-Environment and	Plant nitrogen use strategies along alpine meadow degradation	
rei reiig	Resource, Chinese Academy of Sciences		
Wenli Ding	Beijing Forestry University	Plant phosphorus-acquisition and -use strategies affect soil carbon cycling	
Viceyon Tong	Cichuca Agricultural Hairorcitu	Exogenous carbon alleviated phosphorus environmental impact through mediating phosphorus	
Xiaoyan Tang	Sichuan Agricultural University	dynamics: a case study of continuous manure input in southwest China	
Lifoi Sun	Nanning Normal University	Interpreting the differences in microbial carbon and nitrogen use efficiencies estimated by ¹⁸ O labeling	
Lifei Sun		and ecoenzyme stoichiometry	
Guangting Pei	Nanning Normal University	Functional diversity and microbial activity co-regulate mixture effects on litter decomposition in a	
dualiguing Fei		tropical karst seasonal rainforest	
Xavier Guilbeault-Mayers	University of Montreal, Canada	Coordination among leaf and fine-root traits along a strong natural soil fertility gradient	
Nuria Basdedios	Karlsruhe Institute of Technology, Germany	Ca, Mg and K availability along the 127-year glacial retreat Hailuogou chronosequence: stocks, release, and stable isotope tracing	
Haiying Cui	Northeast Normal University	Environmental filtering controls soil biodiversity in Hawaii soil chronosequence	
- · · ·	Institute of Soil Science,	Surface system processes and soil formation evolution in high-altitude and cold small watersheds in	
Fei Yang	Chinese Academy of Sciences	northern Tibetan Plateau	
Zhijie Long	Sichuan Normal University	Microbial regulatory mechanisms of soil nutrient cycling during the vegetation restoration in a tailing reservoir	
·	Northwest Institute of Eco-Environment and	Oasis construction and its soil development in Hexi Corridor, China	
Yongyong Zhang	Resources, Chinese Academy of Sciences		
Motilal Ghimire	Tribbuyan University Nepal	State and dynamics of cryosphere of Upper Karnali Basin, associated hazard and implication to water	
iviotilai Gillillille	Tribhuvan University, Nepal	resources and livelihood	
Yuhan Wang	Institute of Mountain Hazards and Environment,	Successional trajectories of soil microbiomes: Linking community structure to functions during ecosystem	
Turian wang	Chinese Academy of Sciences	development	



品 Hosts

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- Key Laboratory of Environment Change and Resources Use in Beibu Gulf, Ministry of Education, Nanning Normal University
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- ♦ State Key Laboratory of Mountain Hazards and Engineering Resilience, Chinese Academy of Sciences
- ♦ Hailuogou Scenic Spot Administration
- ♦ Journal of Mountain Science
- ♦ Mountain Research
- ❖ Branch of Mountain Sustainable Development, Kathmandu Center for Research and Education, CAS-TU (Tribhuvan University)
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- ♦ Gongga Mountain Alpine Ecosystem Observation and Experiment Station, Chinese Academy of Sciences

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Onference Venue



Venue: Institute of Mountain Hazards and Environment, Chinese Academy of Sciences **Address**:No. 189, QunXianNan Street, TianFu New Area, Chengdu, Sichuan, P.R. China

Onference Venue



会议地点:中国科学院、水利部成都山地灾害与环境研究所

地址: 四川省成都市天府新区群贤南街 189 号

Conference Hotel

The Organizing Committee has selected Xinglong Lakeside Hotel for participants of SNCC2024. This hotel is close to the Conference Venue either on foot or by public transport. We have secured preferred rates with the below hotels for all conference delegates.

Room Type	Room Rate
King Room	370 RMB
Twin Room	370 RMB
Deluxe Twin Room	470 RMB

Address: No.966, Creative North Road, Xinglong Street, Tianfu New District, Chengdu, China

Contact Person: Ms. Deng, Tel: 17780728603

Note: Please contact the hotel manager in advance to reserve a room if you need it. Please indicate that you are a guest at the SNCC2024 and are entitled to the negotiated hotel rate.



会议酒店

此次会议酒店为兴隆湖畔酒店。兴隆湖畔酒店距离会议场很近,地步行或乘坐公共 交通都很方便。我们已经为所有参会代表与以下酒店达成了优惠价格协议。

房间类型	Room Rate
大床房	370 元
双床房	370 元
豪华双床房	470 元

酒店地址:四川省成都市天府新区兴隆街道创意北路 966 号 3 栋

联系人: 邓经理, 电话: 17780728603

提示: 如有需要,请提前联系酒店经理预定房间。请说明您是参加 SNCC2024 的嘉宾,

享受酒店协议价格。



Transportation

Transportation to the Xinglong Lakeside Hotel

- ➤ Chengdu Tianfu International Airport → Xinglong Lakeside Hotel, approximately 50 kilometers away
 - A. **Taking a taxi**: about 40 minutes, costing around 80 yuan (excluding toll fees).
 - B. Taking the subway: Take subway Line 18 → Exit C1 at Xinglong Station → Take a taxi for about 3 kilometers to reach the hotel. The entire journey takes about 53 minutes.
- ➤ Chengdu Shuangliu International Airport → Xinglong Lakeside Hotel, approximately 40 kilometers away
 - A. Taking a taxi: about 1 hour, costing around 70 yuan (excluding toll fees).
 - B. Taking the subway: Take subway Line 19 (to Tianfu Station) → Transfer to Line 18 (to Xinglong Station, Exit C1) → Take a taxi for about 3 kilometers to reach the hotel after exiting the station. The entire journey takes about 49 minutes.
- ➤ Chengdu East Railway Station → Xinglong Lakeside Hotel, approximately 33 kilometers away
 - A. Taking a taxi: about 52 minutes, costing around 53 yuan (excluding toll fees).
 - B. Taking the subway: Take subway Line 7(to South Railway Station) → Transfer to Line 18 (to Xinglong Station, Exit C1) → Take a taxi for about 3 kilometers to reach the hotel after exiting the station. The entire journey takes about 1 hour.
- ➤ Chengdu South Railway Station → Xinglong Lakeside Hotel, approximately 28 kilometers away
 - A. Taking a taxi: about 42 minutes, costing around 45 yuan (excluding toll fees).
 - B. Taking the subway: Take subway Line 18 → Exit C1 at Xinglong Station → Take a taxi for about 3 kilometers to reach the hotel. The entire journey takes about 1 hour.

交通

前往兴隆湖畔酒店的交通路线

- ▶ 成都天府国际机场 → 兴隆湖畔酒店, 距离约 50 公里
 - A. 出租车:约 40 分钟,费用 80 元左右(不含过路费)。
 - B. 乘坐地铁:乘坐地铁18 号线 → 兴隆站 C1 口出站 → 出站后打车约 3 公 里到达酒店。全程耗时约53分钟。
- ▶ 成都双流国际机场 → 兴隆湖畔酒店, 距离约 40 公里
 - A. 出租车:约 1小时,费用 70 元左右(不含过路费)。
 - B. 乘坐地铁: 乘坐地铁19 号线(至天府站)→换乘地铁18 号线(至兴隆站C1 口出站) → 出站后打车约 3 公里到达酒店。全程耗时约49分钟。
- ▶ 成都东站 → 兴隆湖畔酒店, 距离约 33公里
 - A. 出租车:约 52分钟,费用 53 元左右(不含过路费)。
 - B. 乘坐地铁: 乘坐地铁7号线(至火车南站)→换乘地铁18号线(至兴隆站 C1口出站) → 出站后打车约3公里到达酒店。全程耗时约1小时。
- ▶ 成都南站 → 兴隆湖畔酒店, 距离约 28公里
 - A. 出租车:约 42分钟,费用 45元左右(不含过路费)。
 - B. 乘坐地铁:乘坐地铁18 号线 → 兴隆站 C1 口出站 → 出站后打车约 3 公里到达酒店。全程耗时约1小时。



〇 Contact Us 联系人

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Registration & Payment Consultation:

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SNCC2024 is Ready!

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