



## **1. 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 First 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, CAS at 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 Hailuoguo postglacial soil chronosequence 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). This will include a workshop synthesis article as well as primary research papers from chronosequences around the world.

## **2. Conference Themes**

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

## **3. Objectives**

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.

## **4. Important Dates**

20 Dec. 2023	First announcement
15 Feb. 2024	Second announcement
10 Apr. 2024	Deadline for abstract submission and early-birds registration
20 Apr. 2024	Third announcement
6-11 May 2024	Conference

## **5. Venue**

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

## **6. Invited Speakers**

Hans Lambers	Emeritus Professor, The University of Western Australia Editor in Chief of Plant and Soil, Academician of the Royal Netherlands Academy of Arts and Sciences and the Australian Academy of Science.
Peter Vitousek	Professor, Stanford University, a member of the National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences.
Leo Condon	Professor, Lincoln University, New Zealand
Ganlin Zhang	Professor, Nanjing Institute of Geography & Limnology, CAS
Roland Bol	Professor, Forschungszentrum Jülich, Germany
Benjamin Turner	Professor, Institute of Agriculture and Life Sciences, Gyeongsang National University, Korea
Yanhong Wu	Professor, Institute of Mountain Hazards and Environment, CAS

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## **7. Conference Form and Scale**

*The 1<sup>st</sup> International Symposium on Soil Nutrient Cycling along Chronosequences and its Implications for Ecological Restoration* would invite representatives from organizers and experts and researchers from different countries to participate in the conference. The conference will mainly comprise a symposium and workshops.

## **8. Hosts**

✧ Institute of Mountain Hazards and Environment, CAS

*Co-organizers*

✧ Key Laboratory of Mountain Surface Processes and Ecological Regulation, CAS

✧ Gongga Mountain Alpine Ecosystem Observation and Experiment Station, CAS

✧ Journal of Mountain Science

- ✧ Mountain Research
- ✧ Youth Innovation Promotion Association, CAS
- ✧ Branch of Mountain Sustainable Development, Kathmandu Center for Research and Education, CAS-TU (Tribhuvan University)
- ✧ Research Center of Plateau Disaster Reduction and Emergency Management, Qinghai Normal University

## **9. Scientific Committee**

Hans Lambers (Prof., Co-chair)    The University of Western Australia  
 Ganlin Zhang (Prof., Co-chair)    Nanjing Institute of Geography & Limnology, CAS  
 Yanhong Wu (Prof., Deputy Chair)    IMHE, CAS

Edith Bai (Prof.)	Northeast Normal University
Roland Bol (Prof.)	Forschungszentrum Jülich, Germany
Ningsheng Chen (Prof.)	IMHE, CAS
Leo Condron (Prof.)	Lincoln University, New Zealand
Wenfeng Cong (Prof.)	China Agriculture University
Linchuan Fang (Prof.)	Wuhan University of Technology
Xiaojuan Feng (Prof.)	Institute of Botany, CAS
Eryuan Liang (Prof.)	Institute of Tibet, CAS
Fenggui Liu (Prof.)	Research Center of Plateau Disaster Reduction and Emergency Management, Qinghai Normal University
Zhanfeng Liu (Prof.)	South China Botanical Garden, CAS
Jiayin Pang (Prof.)	The University of Western Australia
Xiangjun Pei (Prof.)	Chengdu University of Technology
Fei Peng (Prof.)	Northwest Institute of Eco-Environment and Resource, CAS
Dunlian Qiu (Prof.)	IMHE, CAS
Lijun Su (Prof.)	IMHE, CAS
Zhigao Sun (Prof.)	Fujian Normal University
Peter Vitousek (Prof.)	Stanford University, USA
Tao Wang (Prof.)	Institute of Tibet, CAS
Wolfgang Wilcke (Prof.)	Karlsruher Institut für Technologie
Juhua Xiong (Prof.)	National Natural Science Foundation of China
Yuanhe Yang (Prof.)	Institute of Botany, CAS
Yuemin Yue (Prof.)	Institute of Subtropical Agriculture, CAS

Wei Zhang (Prof.)	Institute of Subtropical Agriculture, CAS
Hongtao Zhong (A. Prof.)	Xiamen University
Xiaobing Zhou (Prof.)	Xinjiang Institute of Ecology and Geography, CAS
Bo Zhu (Prof.)	IMHE, CAS

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## **10. Organizing Committee**

Hans Lambers (Prof., Co-chair)	The University of Western Australia
Yanhong Wu (Prof., Co-chair)	Institute of Mountain Hazards and Environment (IMHE), CAS
Haijian Bing (A. Prof.)	IMHE, CAS
Ruiying Chang (Prof.)	IMHE, CAS
Wei Liu (A. Prof.)	IMHE, CAS
Fei Ran (A. Prof.)	IMHE, CAS
Lijun Su (Prof.)	IMHE, CAS
Wenzhi Wang (Prof.)	IMHE, CAS
Yang Yang (Ms.)	IMHE, CAS
Jun Zhou (A. Prof.)	IMHE, CAS
He Zhu (PhD)	IMHE, CAS
Yingyan Zhu (Prof.)	IMHE, CAS

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[zhuhe20240506@163.com](mailto:zhuhe20240506@163.com)

**Registration Table**

Full Name	
Title	
Affiliation	
Room type	Single / Double
Title of oral presentation	
Title of Poster	
Email	