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 Hailuogou 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 Condron  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 1st 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
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

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

11. Contact

Jun Zhou zhouden@imde.ac.cn
Haijian Bing hjbing@imde.ac.cn
He Zhu zhuhe@imde.ac.cn
For Registration, please send the Registration table to zhuhe20240506@163.com

### Registration Table

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