

The International Academic Exchange Forum on Cold Regions (First Session)

The “International Academic Exchange Forum on Cold Regions” series of forums is jointly initiated by the PYRN (Permafrost Young Researchers Network) 2022-2024 Executive Committee and the editorial department of "Glacier and Permafrost". Starting from August 2023, the forum will be held online, and the forum organizing committee has invited domestic and foreign experts in the field of cold regions to give academic exchange reports to young scholars. The forum aims to further strengthen the cross-fusion between permafrost research and related disciplines, promote the exchange and cooperation of young scholars in permafrost research fields in various countries, and provide valuable experience and wisdom for many problems and challenges in permafrost research.

Report Information

Conference Time: August 5th, 2023, 15:00-16:30

Participation Method: Tencent Meeting 750 405 312

Moderator: Chenglin Zhou, Deputy Editor-in-Chief, Editorial Department of "Glacier and Permafrost", Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences.

Topic direction of the report: Research on Frozen Soil Mechanics and Engineering

Speaker	Affiliation	Report Title	Presentation and Discussion Time
Enlong Liu	Sichuan University	Theory and Numerical Simulation of Coupled Multi-Field in Geotechnical Phase Change.	15:00—15:30
Pengfei He	Lanzhou University of Technology	Experimental Study on Shear Characteristics of Frozen Soil-Geotextile Interface	15:30—16:00
Kaytan Kelkar	Geophysical Institute Permafrost Laboratory(ALASKA)	A Rock Glacier Inventory of the Central Alaska Range, Alaska	16:00—16:30



Enlong Liu A professor and doctoral supervisor at Sichuan University. He has worked at the National University of Singapore and the University of Melbourne. In 2015, he was selected for the Hundred Talents Program of the Chinese Academy of Sciences and also serves as a council member of the Soil Mechanics and Geotechnical Engineering Branch of the China Civil Engineering Society. Long-term teaching and research focus on the constitutive relationship of geotechnical materials, THM-coupled numerical simulation, soil-structure seismic resistance, and micro-macro mechanics of granular materials. Received the third prize of provincial natural science and the first prize of scientific and technological progress of the society.



Pengfei He an associate professor at Lanzhou University of Technology. His research mainly focuses on frozen soil engineering and the interaction between structures and static/dynamic forces. He has presided over 1 National Natural Science Foundation project, 1 Gansu Provincial Natural Science Foundation project, 1 open fund project of the State Key Laboratory of Frozen Soil Engineering, and several enterprise cooperation projects. He has won 1 special prize from the Chinese Society for Dam Engineering and published more than ten high-level papers.



Kaytan Kelkar a second year Ph.D. student at the University of Alaska Fairbanks. His primary research interests are in periglacial geomorphology focused on landslides propagated by mountain permafrost degradation. He is also interested in modeling mountain permafrost extent and geomorphological mapping. For his Ph.D. he will examine permafrost-affected landslides and develop a rock glacier inventory in the Central Alaska Range. His long-term goal is to improve hazard mitigation in permafrost-affected mountain terrain.

PYRN (Permafrost Young Researchers Network) Introduction

PYRN was launched during the Fourth International Polar Year (IPY) in November 2005. It is an international network of young permafrost researchers under the International Permafrost Association (IPA), aimed at providing a platform for young researchers to exchange knowledge and experience, and to guide them in understanding, recognizing, and addressing the challenges related to permafrost in the context of global climate change. The network is led and managed entirely by young researchers and has grown steadily, with 800 members from 40 countries by April 2010. PYRN also initiated the PYRN-Bib, which records over 1,000 papers and publications completed by permafrost scientists and engineers since the early 1950s. PYRN is considered an outstanding component of the IPA.

冰川冻土(Journal of Glaciology and Geocryology) Introduction

Inclusion: Scopus, GeoRef, JSTChina, Peking University Core Collection of Chinese Journals, CSCD, CSTPCD, and RCCSE.

Journal Impact: T1 high-quality scientific and technological journal in the field of geographic resources (2020-2022), and an excellent academic journal with international influence in China (2016-2022).

Journal of Glaciology and Geocryology is the only academic journal in China's cryosphere research field, sponsored by the Chinese Academy of Sciences, the Chinese Geographical Society, and the Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences. The editor-in-chief is Fellow Kang Shichang. The journal focuses on serving the development of the cryosphere science and its branches, such as glaciology, geocryology, cold region engineering, cryosphere hydrology, cryosphere ecology, and other related disciplines. It mainly reports on the processes and mechanisms of key cryosphere elements such as glaciers (ice caps), snow, permafrost, sea ice, the impacts and adaptations of cryosphere changes, and basic and applied research related to global changes. The column settings include: cryosphere and global change (including cryosphere climate and

environmental records, cryosphere response and feedback to climate change, polar ice caps and sea level change, etc.), the Second Tibetan Plateau Comprehensive Scientific Expedition and Research, cold region engineering and disasters, cryosphere hydrology and water resources, cryosphere ecology, cryosphere and sustainable development, Quaternary and planetary cryosphere, cryosphere technology (including remote sensing, ground-based intelligent observation instrument development, data transmission, etc.), cryosphere data papers, research reviews, and popular science briefs.