



中国科学院武汉岩土力学研究所

Institute of Rock and Soil Mechanics, Chinese Academy of Sciences

岩土力学与工程前沿讲坛

Forum on Geomechanics and Geo-engineering

No.SK2025-10

应岩土力学与工程安全全国重点实验室邀请，美国科罗拉多矿业大学土木与环境工程系 Ning Lu 教授来访交流并做系列讲座，报告信息如下：

报告人
Lecturer

Prof. Ning Lu

讲座题目
Theme

Unsaturated Soil Mechanics

报告时间
Time

2025 年 6 月 25 日（周三下午）—27 日（周五上午）

报告地点
Spot

武汉岩土所科研楼 4 楼慕课教室

欢迎广大科研人员及研究生参加！



岩土力学与工程安全全国重点实验室

State Key Laboratory of Geomechanics and Geotechnical Engineering Safety



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报告简介

教材: Unsaturated Soil Mechanics, Lu and Likos, Wiley, 10 篇必读杂志论文 (详情请见附件)。

主讲教师: Ning Lu, Colorado School of Mines, Golden, Colorado, USA, ninglu@mines.edu

报告人介绍



Biosketch: Ning Lu has made some breakthroughs on concept of effective stress in soils. He has unified soil's effective stress under both saturated and unsaturated conditions, moving beyond the classical Terzaghi's and Bishop's effective stress representations. For his seminal work on soil effective stress, he received ASCE Norman Medal twice; first in 2007 for conceptualization of suction stress, and second in 2022 for formulation of a practical closed form effective stress equation. He recently received ASCE's Karl Terzaghi Award for seminal contributions to the understanding of the fundamental mechanisms governing the behavior of unsaturated soils and their implications in slope stability and other geotechnical problems. In the past two decades, he has formulated a new paradigm for slope stability under variably saturated conditions, which has been bestowed by ASCE for its 2017 R. B. Peck Award, and M. A. Biot Medal. He is a distinguished member of ASCE, and a fellow of Geological Society of America and Engineering Mechanics Institute. He has published two widely used textbooks: Hillslope Hydrology and Stability (2013, Cambridge University Press), and Unsaturated Soil Mechanics (2004, John Wiley and Sons). The latter will be used for this short course.

