



深地科学论坛（第九十五讲）

Sinkhole Detection, Analysis, and Repair

天坑的检测、分析与修复

报告人：南昆士兰大学 Jim S. Shiau 教授

时 间：2025 年 11 月 6 日 10:00

地 点：深地国重 411 会议室 腾讯会议：639-800-168

邀请人：《深地科学（英文）》编辑部

报告人简介：



Jim Shiau 教授

现任澳大利亚南昆士兰大学教授。在澳大利亚新南威尔士州纽卡斯尔大学获得博士学位，师从朗肯讲座主讲人、《Computers and Geotechnics》主编 Scott Sloan 教授。主要研究方向为深基坑与地铁隧道工程、地基稳定性、有限元极限分析及岩土稳定性问题的安定性分析，现任《Soils and Foundations》，《Deep Underground Science and Engineering》期刊编委。Shiau 教授在地下结构设计方面积累了丰富的经验，同时对岩土稳定性研究具有广泛兴趣，以第一和通讯作者身份发表高影响力

Top10%期刊文章 30 余篇，共计发表 SCI/EI 论文 185 篇，论文总引次数达 2600 余次，H 指数 31。组织多个国际会议与论坛。荣获 UniSQ 杰出教学奖。

报告摘要：

Sinkholes are a danger to people in most countries. They can instantly happen and swallow up roads, cars, and even houses, no matter small or big in heavily populated urban areas. The harsh reality is that many sinkholes are actually manmade. Broken water mains, sewage pipes, and drainpipes underneath roads and parking lots are all common sinkhole causes. Data shows sinkhole damage caused in the last 10 years has required an average of \$3.0 billion US dollars per year in repairs all over the world.

This seminar will discuss the recent development of sustainable sinkhole research in Australia. Topics may include the feasibility of developing a portable drone mounted GPR based experimental study, the advanced numerical simulation of the sinkhole problem, and the development of new sinkhole repair guideline and design options.



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