Workshop G

From Clicks to Conversations: How Natural Engineering Language is Transforming Geotechnical Modelling

Speakers: Reginald Hammah/ Alison McQuillan
Date: Sunday, October 25, 2026
Duration: Full day (approximately 8 hours, including a 1-hour lunch break)
Language: English

Join Reginald Hammah, Chief Scientific Officer at Rocscience, for a first look at how Large Language Models (LLMs) coupled with Model Context Protocol (MCP) technology are enabling a fundamentally new way to interact with geotechnical models. We call it Natural Engineering Language (NEL) – the ability for engineers and geologists to describe what they want to analyze in the same terms they would use to explain it to a colleague, and for the software to build, query, and iterate on models accordingly.

In this course, you will:

- Learn to use NEL modelling in Rocscience's Dips and RS2.
- Apply real engineering workflows where conversation-based modelling is faster, more intuitive, and more powerful than traditional interfaces.
- Understand the basics of the technology behind the shift: how MCP creates a standardized bridge between LLMs and engineering software without sacrificing control or transparency.
- Understand where this is headed: why natural engineering language represents a modelling paradigm as significant as the shift from hand calculations to FEA.

This course is not about replacing engineering judgment with AI. It is about reducing the friction between your engineering and geological understanding and your computational models, so you can spend less time clicking through menus and more time interpreting results.

Who should attend: geotechnical engineers, geologists, mining engineers, engineering managers, and anyone curious about the intersection of AI and engineering practice.