

# SETTLEMENT ANALYSIS USING SETTLE3

WEDNESDAYS, SEPTEMBER 7 & 14 | 11 AM - 1 PM | VIRTUAL

**NOTE:** PARTICIPANTS WILL RECEIVE A TEMPORARY SETTLE3  
LICENSE SPECIFIC TO THE COURSE THE WEEK PRIOR.

**REGISTER**

MEMBERS	\$250
NONMEMBERS	\$400



**DR. ALIREZA AZAMI**  
Geomechanics Specialist  
**ROCSCIENCE**

This virtual course will cover the settlement and consolidation theories behind Settle3 and the application of this tool in different engineering problems that include settlement analysis.

## MODULE 1: THEORY AND MODEL SET UP

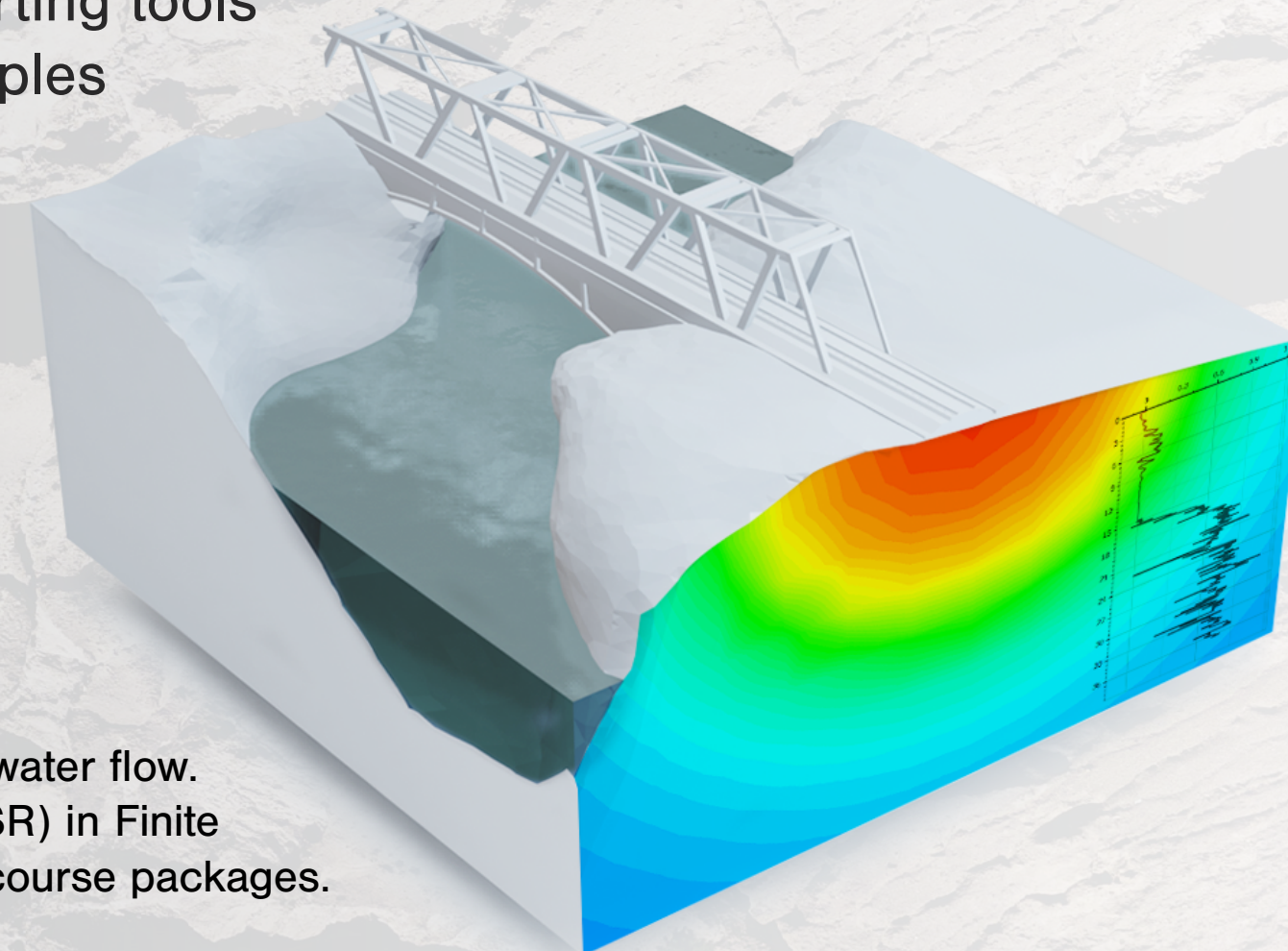
- Stress computation methods
- Settlement estimation methods (empirical vs consolidation theory)
- Flexible and rigid loads
- Material models in Settle3
- Examples

## MODULE 3: GROUND IMPROVEMENT

- Modeling ground improvement methods in Settle3
  - Wick Drains
  - Soil replacement, stone columns and vibro-compaction
- Examples

## MODULE 2: COMMON APPLICATIONS

- Loads and excavations
  - Embankment designer Settle3
  - Staged construction of embankments
  - Multiple loads
- Reporting tools
- Examples



### Biography

Dr. Alireza Azami is a Geomechanics Specialist at Rocscience. He holds his Ph.D. from McMaster University in Civil Engineering (Geomechanics). Dr. Azami joined Rocscience in 2010 and focuses primarily on the mechanical behavior of geomaterials and groundwater flow. He is a key developer on Slide2, Slide3, RS2, and RS3, and has published many papers on the topic of Shear Strength Reduction (SSR) in Finite Element Analysis. Dr. Azami is an instructor for workshops and webinars as well as Rocscience standard short courses and customized course packages.