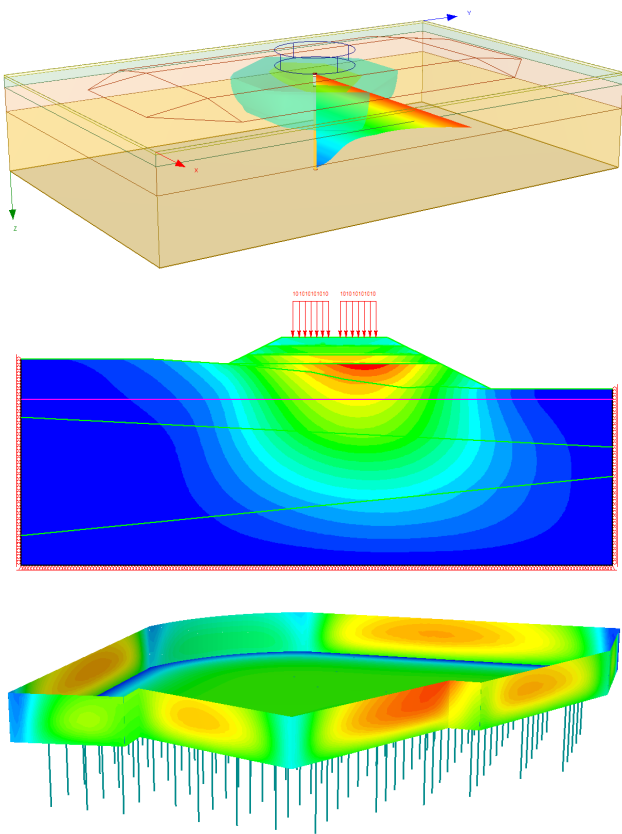


# MEXICO CITY TWO DAY WORKSHOP

## Rocscience Tools for Settlement Analysis in Soils

The objective of this course is to provide a background on numerical modelling for settlement analysis using various *Rocscience* software tools. Get the most out of the *Rocscience* suite (*Settle<sup>3D</sup>*, *RS<sup>2</sup>* and *RS<sup>3</sup>*) through a balanced mixture of lectures and hands-on computer analysis using practical examples collected over the years.

**November 13-14, 2017**



### Module I: Analysis of Settlement Under Foundations

- Stresses and settlement under footings in multilayered soils (*Settle<sup>3D</sup>*)
- Rigid and Flexible footing analysis (*Settle<sup>3D</sup>*)
- Accelerated technique for consolidation analysis (*Settle<sup>3D</sup>*)

### Module II: Groundwater & Consolidation Analysis

- Saturated-Unsaturated transient groundwater analysis (*RS<sup>2</sup>* and *RS<sup>3</sup>*)
- Permeability functions
- Boundary conditions
- Seepage analysis of staged excavations
- Consolidation analysis

### Module III: Coupled and Uncoupled Settlement Analysis

- Non-linear elastic and plastic analysis for soil (*RS<sup>2</sup>*)
- Introduction to the Soil Hardening models (*RS<sup>2</sup>*)
- Undrained soil analysis (*RS<sup>2</sup>*)

### Module IV: Pile, Raft, and Embankment Analysis

- Analysis of Piles (*RS<sup>3</sup>*)
- Piled raft foundations (*RS<sup>3</sup>*)
- Dams and embankments analysis (*RS<sup>3</sup>*)

### Location:

Radisson Paraiso Perisur, Ciudad de Mexico

### Cost:

USD \$850

\$100 early bird discount (valid until October 13<sup>th</sup>)

### Includes:

Lunch and coffee breaks on both days  
Rocscience suite for two weeks

### Contact:

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This course is taught in English by  
Dr. Thamer Yacoub, Rocscience President