



Short Course Geotechnical Aspects of Earthquake Engineering

Instructors: Russell A. Green and Adrian Rodriguez-Marek

Delivery: Online (synchronous delivery)

Dates: June 2 to June 4

Outline*

Day 1 (Wed. June 2)	
8:00 – 9:15 AM	Earthquake Basics
9:30 – 11:00 AM	Ground Motion Characterization and scaling: <ul style="list-style-type: none"> - Ground motion parameters - Ground motion prediction - Scaling of ground motions
11:15 – 12:15 AM	Ground motions for building codes
Day 2 (Thurs. June 3)	
8:00 – 9:15 AM	Liquefaction fundamentals
9:30 – 11:00 AM	Evaluation of liquefaction triggering and seismic compression
11:15 – 12:15 AM	Post-liquefaction behavior <ul style="list-style-type: none"> - Deformations - Shear strength
Day 3 (Fri. June 4)	
8:00 – 9:30 AM	Best practices for site response analysis: <ul style="list-style-type: none"> - One-dimensional site response basics - Overview of shear-wave velocity measurements - Options available for performing site response analysis
9:45 – 11:00 AM	Seismic Slope Stability
11:15 – 12:00 AM	Seismic loads on retaining walls
12:00 – 12:30 AM	Open Q&A Session

* Topics may vary slightly from this outline