

# THE GEOTECHNICAL FUTURE IN LIVING COLOR

## SECOND ANNUAL EMERGING PROFESSIONALS WEBINARS

### BY EMERGING PROFESSIONALS SERIES



**REGISTER NOW**

**FRI, AUG 2 | 11:00 AM – NOON | ZOOM**

#### **Next Generation Liquefaction Database and Probabilistic Liquefaction Susceptibility, Triggering, and Manifestation Models**

*Ken Hudson, PhD, PG, EIT, Principal Geoscientist at Hudson Geotechnics*

- The Next Generation Liquefaction Project: Publicly accessible database and case history processing
- Liquefaction triggering and manifestation model development philosophy - Bayesian framework and profile-based approach
- Laboratory-based triggering model and susceptibility model Bayesian priors
- Liquefaction manifestation models and posterior triggering and susceptibility models and their application

**FRI, SEP 6 | 11 – 11:30 AM | ZOOM**

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#### **Boring Stuff: Practical Tips and Lessons Learned in Soil Logging**

*Lane Klansek, EIT, Project Engineer at GEI Consultants*

- How to prepare for logging: Supplies, planning, and project understanding
- Field experience tips: Organization, routine, data collection, site management best practices
- Office work: Selecting samples for lab testing, digitizing logs, and well completion reports
- Discussion of common mistakes and lessons learned from staff of all levels



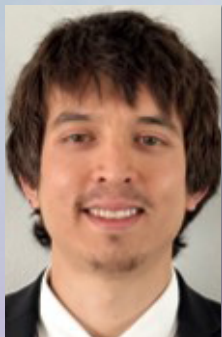
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**FRI, OCT 4 | 10 – 10:30 AM | ZOOM**

#### **Upgrading the Past to Protect the Future: The Seismic Retrofit for Marina Middle School**

*Tyler Toledo, Senior Staff Engineer at Langan Engineering & Environmental Services*

- Highlight the geotechnical challenges of the seismic retrofit of an existing school
- Provide an overview of compaction and permeation grouting ground improvement methods from the design phase through construction
- Discuss lessons learned from this successfully completed project



**FRI, NOV 1 | 11 – 11:30 AM | ZOOM**

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#### **Telecommunication Towers: Foundation Exploration, Design, and Analysis**

*Angel Wilson, EIT, Senior Staff Engineer at Mid Pacific Engineering, Inc.*

- Explore the different aspects of foundation design for telecommunication towers
- Discuss how different site factors, such as field conditions, hazards, geology, etc., affect the investigation
- Showcase the challenges and solutions in two different case studies



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**FRI, DEC 6 | 11 – 11:30 AM | ZOOM**

#### **Seismic Soil Structure Interaction Analyses for a Bulkhead: An Assessment of the Efficacy of Stone Columns in Liquefaction Mitigation**

*Nithyagopal Goswami, PhD, Project Engineer at Langan Engineering & Environmental Services*

- Developed a Flac2D model for simulation of soil-structure interaction
- Identified location of high bending moments in the pipe-pile wall
- Quantified the effects of ground improvement

