

# BEYOND THE FACTOR OF SAFETY: BRINGING CASE-HISTORY EVIDENCE BACK INTO LIQUEFACTION ASSESSMENT

TUESDAY, JUNE 30 | 11:00 AM - 12:00 PM PACIFIC | VIRTUAL

**REGISTER**

**Members**      **\$25**  
**Nonmembers**      **\$50**



Every liquefaction assessment begins with a prior: depositional history, regional seismicity, the plasticity of the fines, the documented performance of analogous sites. Practicing engineers carry this into every project, and the best assessments have always combined it with the simplified procedure.

This talk is about making that combination explicit. The simplified procedure produces a defensible, reproducible index, whether expressed as FS or Pf. But an index is a compression. For sites near the triggering threshold, or in conditions outside the central calibration range, the compression hides what the engineer most needs: what happened at analogous sites, the consequences, and how much outcomes varied.

## Attend This Course to Learn:

- Why FS = 0.92 and FS = 0.88, or the corresponding Pf values, often sit inside the model's own uncertainty band
- How the NGL database (8,634 case histories, 50+ earthquakes) supports analog retrieval on CPT, fines, groundwater, and shaking
- What matched cases add: documented consequences, uncertainty as divergence among analogs, and a flag when no close analog exists
- Live walkthrough on California sites where analogs agree, diverge, and are absent



**ACHYUT TIWARI**  
**FOUNDER**  
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**NET PROCEEDS FROM THIS COURSE WILL BENEFIT  
THE EMERGING PROFESSIONALS' AWARDS.**