



**GEO-  
INSTITUTE**

**SoCal Inland Empire  
Chapter**

**2017-2018  
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**February 7, 2018 Presentation**

**WHAT LEVELS OF SEISMIC GROUND  
MOTION TO USE FOR LIQUEFACTION  
EVALUATION?**

**Jorge F. Meneses, RMA Group, Inc.**

Standard simplified liquefaction evaluation procedures typically use the peak ground acceleration (PGA) and magnitude (M) as parameters representing the seismic ground motions at a site. The values of PGA and M at a site can vary depending upon the return period in a probabilistic approach or associated expected level of performance. Evaluation of liquefaction triggering and associated consequences (settlements and lateral spread) may significantly change depending upon the level of the ground motions selected.

Dr. Meneses will present and discuss different existing approaches and guidelines dealing with the level of ground motions and liquefaction evaluation. These guidelines include the recently approved ASCE 7-16 (basis for the 2019 California Building Code), the 2016 National Academies of Sciences, Engineering, and Medicine report, NAVFAC, Caltrans, California High Speed Train, CGS Note 48, Los Angeles City and Los Angeles County. Also some insights to the changes that ASCE 7-22 may incorporate will briefly be discussed. Finally, some clarifying conclusions will be proposed.

Jorge Meneses has more than 25 years of experience in geotechnical engineering with emphases on geotechnical earthquake engineering, foundation engineering, numerical modeling, and advanced geotechnical testing. His experience includes consultancy for major companies, and research and teaching in major universities in the U.S., Japan, and Peru. Jorge has published about 60 technical publications in technical journals and conferences, is a frequent peer reviewer of journal and conferences papers, and has been invited as a guest speaker for national and international conferences.

**Date:** Thursday, February 7, 2018

**Time:** 6:00 - 6:45 PM Registration and socializing  
6:45 - 7:30 PM Dinner  
7:30 - 8:30 PM Technical presentation

**Location:** Zendejas Mexican Grill  
8106 Milliken Ave., Rancho Cucamonga

**Cost:** \$30 members w/ RSVP, \$35 non-members or no RSVP,  
\$10 students

**Register** or Send RSVP by February 6, 2018 to Ed Hernandez at:  
[ehernandez@projectxcorrosion.com](mailto:ehernandez@projectxcorrosion.com) Walk-ins are Welcome!