



The Geo-Institute Computational Geotechnics Technical Committee will live-stream the session **“Analysis of LEAP 2020 Experimental Results and Validation of Numerical Predictions”** on Tuesday, December 3 at 11 am EST.

“Analyses of LEAP 2020 Experimental Results and Validation of Numerical Predictions”
Alejandro Sepulveda

The current landscape of geotechnical engineering benefits from abundant computational power and advanced numerical modeling platforms capable of analyzing the dynamic response and liquefaction of saturated granular soil systems. In this regard, an important step is the validation of soil constitutive models and modeling platforms to foster a greater acceptance and utilization of numerical modeling in geotechnical engineering design and analysis.

Recent efforts under the Liquefaction Experiments and Analysis Projects (LEAP) are aimed at promoting the validation of numerical models developed for soil liquefaction. LEAP is a series of international research collaborations aiming to produce high quality experimental data to validate soil constitutive models and modeling techniques for dynamic geotechnical systems involving soil liquefaction. The focus of this web conference is to present the analysis of the LEAP 2020 experimental data and a validation methodology for numerical simulations of geotechnical systems involving soil liquefaction using centrifuge experimental data.