

**ASCE Geo-Institute (G-I)
Virtual Speakers Bureau
*Earthquake Engineering and Soil Dynamics (EESD) Technical Committee***

Lectures on Offer from the EESD Committee (2020-2021)
Virtual Platform - Microsoft Teams Live

Speakers and Topics

Adda Athanasopoulos-Zekkos, Assistant Professor at UC Berkeley

- Investigation of the performance of the flood-protection systems of New Orleans in Hurricane Katrina, on August 29, 2005 - Lessons Learned
- Assessment of seismic response of levees and its variability due to time history selection
- Characterization of pile-driving induced vibrations: An integrated field testing and numerical modeling approach
- Liquefaction triggering and post-liquefaction response of gravelly soils
- Seismic earth pressures on yielding vs non-yielding gravity-type retaining walls - Overview and FEM results

Scott Brandenburg, Professor at UCLA

- Soil-structure interaction procedure for evaluating seismic earth pressures
- Levee system reliability analysis
- Influence of liquefaction and lateral spreading on deep foundations
- Next generation liquefaction relational database

Deepankar Choudhury, Professor at the Indian Institute of Technology Bombay Powai

- Seismic design aspects for combined pile-raft foundation systems of high-rise structures
- Seismic studies on liquefaction, remediation and design of foundation systems for various structures of different petroleum terminals
- Estimation of liquefaction potential at various soil sites in India using CPT and DMT for different field projects
- Seismic design of tailing dam
- Seismic stability analysis and design for longest canal of India

Shideh Dashti, Assistant Professor at University of Colorado at Boulder

- Performance-based liquefaction assessment
- A physics-informed, semi-empirical, probabilistic approach to evaluating building settlement and tilt on liquefiable sites
- Considerations for mitigation of earthquake-induced soil liquefaction in urban environments
- Seismic performance of buried water reservoir structures
- Considerations for design of permanent and temporary cut-and-cover box structures near tall buildings

Kevin Franke, Professor at Brigham Young University

- Use of drones for monitoring infrastructure and performing post-earthquake reconnaissance
- Reconnaissance Efforts from Recent Earthquakes (including 2017 Central Mexico Earthquake)
- Performance Based Liquefaction Hazard Analysis

Russel Green, Professor at Virginia Tech – any topic related to liquefaction, such as following:

- Role of paleoliquefaction studies in assessing the seismic hazard in the central-eastern US
- Evaluating liquefaction potential in the central-eastern US
- Evaluating liquefaction hazard from induced seismicity
- Overview of the 2010-2011 Canterbury, New Zealand, Earthquake Sequence

Anne Lemnitzer, Associate Professor at University of California, Irvine

- Centrifuge Experiments to investigate levee deformation potential in the Sacramento – San Joaquin Delta
- Levees, Peat and Seismic Loading – Settlement Challenges Associated with Organic Soils
- An overview of ground improvement methods for liquefaction mitigation

Dimitrios Zekkos, Assistant Professor at UC Berkeley

- Unmanned Aerial Vehicles for post-disaster response and geotechnical infrastructure assessment
- Recent Applications of Unmanned Aerial Vehicles in Geotechnical Engineering and Future Opportunities
- Ongoing Robot-enabled Research Efforts to Promote Resiliency and Sustainability of Geo-
- Seismic Response of MSW Landfills: Laboratory; In-Situ Testing of Properties; Dynamic Analyses
- Recent Advances on the Static and Dynamic Properties of Municipal Solid Waste
- Bio-Chemico-Physico-Mechanical Characterization of Degradation of Municipal Solid Waste for Energy Generation Processes
- Remote Sensing and Field-Based Investigation of Landsliding in the 2015 Mw 7.8 Gorkha, Nepal, Earthquake
- Assessment of the Effects of Ground Motion Modification on Ground Motions and Seismic Response of Geotechnical Systems

Zia Zafir, Chief Engineer at Kleinfelder

- Seismic updates in the 2018 International Building Code

Katerina Ziotopoulou, Assistant Professor at University of California, Davis

- PM4Silt: A constitutive model for silts and clays in seismic deformation analyses
- PM4Sand: A constitutive model for sands in seismic deformation analyses
- Validation Protocols for the constitutive modeling of liquefaction