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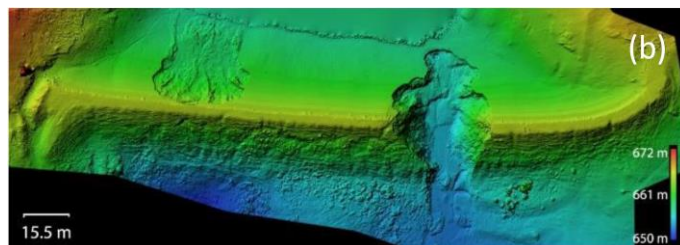
NOTICE OF UPCOMING TECHNICAL PRESENTATION Tuesday, 12 January 2021

TOPIC: Performance of Levees: Learning from the past – Looking to the future

SPEAKER: Adda Athanasopoulos-Zekkos, PhD. – Assistant Professor, UC Berkeley

Dr. Adda Athanasopoulos-Zekkos is an Assistant Professor of Civil and Environmental Engineering (CEE) at the University of California, Berkeley, since January 2020. Prior to this appointment, she was a faculty member in the CEE department at the University of Michigan (2008-2019). She is also the President of the US Universities Council for Geotechnical Education and Research (USUCGER). She received her Ph.D. in Geotechnical Engineering from the University of California, Berkeley in 2008, her MSc. in Geotechnical Engineering from the University of California, Berkeley in 2004, and a joint BSc/MSc in Civil Engineering from the University of Patras, Greece in 2003. She has received the NSF Graduate Research Fellowship Award (2004), the NSF CAREER award (2013), the 2014 Faculty Excellence Award (UMichigan), the 2015 ASCE Arthur Casagrande Award and the 2015 ASCE Thomas Middlebrooks Award, the 2016 Chi Epsilon (XE) Outstanding Teaching Award, and the 2020 TC203 Young Research Award from the International Society of Soil Mechanics and Geotechnical Engineering. She also delivered the 30th Annual Mueser Rutledge Memorial Lecture in 2020. Her research focuses on soil liquefaction, seismic slope stability, and flood protection systems and soil structures under extreme loading like hurricanes and earthquakes and new technologies and methodologies to design, monitor and reinforce them.

CONTENT: Most river cities, now growing at increasing rates, are protected from flooding by earthen levees. Natural disasters like Hurricane Katrina have provided warnings regarding the need to maintain and upgrade our aging and deteriorating flood protection systems. Furthermore, for seismic regions like California, the combined seismic and non-seismic risks are creating a new class of engineering problems, with regard to safe levee design, that need to be addressed. This presentation will include key findings from the investigation of the levee failures in New Orleans, and ongoing efforts to improve flood management nationwide. Furthermore, preliminary results from ongoing efforts to improve the health monitoring and inspection of levee systems. Specifically, work on data fusion of spatially resolved data of the surface and subsurface “signature” along the levee systems by leveraging UAVs equipped with optical cameras, LIDAR and infrared cameras for surface mapping and seismic geophysics and electromagnetic sensors for subsurface mapping, will be discussed.



DETAILS: Technical Presentation: 5:30 pm – 6:30 pm

Link: <https://attendee.gotowebinar.com/register/8711456327791968525>