SPONSE INTERNATIONAL ASSOCIATION FOR THE SEISMIC PERFORMANCE OF NON-STRUCTURAL ELEMENTS

Research Organization: **University of California, Berkeley**

Individual Member: **Dimitrios Konstantinidis, Assistant Professor**

Short CV:

Dimitrios Konstantinidis is an Assistant Professor in the Department of Civil and Environmental Engineering at the University of California, Berkeley. He received his Bachelor's (1999), Master's (2001), and PhD (2008) degrees from UC Berkeley, after which he held postdoctoral positions at UC Berkeley and Lawrence Berkeley National Laboratory (2008-2011). Prior to re-joining Berkeley in 2019, he was a faculty member at McMaster University in Canada (2011-2018), where he became an associate professor and Endowed Chair in Effective Design of Structures in 2017 and Associate Chair (Graduate) in 2018. He was a Visiting Professor at Kyoto University's Disaster Prevention Research Institute in 2013 and at Dalian Institute of Technology in 2017.

His research interests are in earthquake engineering and engineering mechanics with a primary focus on nonstructural components, seismic isolation, and the resilience of critical facilities. His work combines experimental testing, analytical methods, and numerical simulation for a range of purposes: gaining a deep understanding of behavior; providing an accurate quantification of response; developing innovative seismic protection solutions; and proposing recommendations for improved design codes and standards. His research on nonstructural components has focused primarily on quantifying and improving the seismic performance of unanchored building contents, which includes sliding, rolling, twisting, rocking and overturning. He has carried out comprehensive shake table studies on the seismic response of life-science lab equipment prone to sliding and rocking (at UC Berkeley) and medical equipment on wheels/casters (at McMaster University). He was responsible for the commissioning of the Multi-Axis Dynamic Simulator (MADS), a 6-DOF shake table for testing nonstructural components, at McMaster University's Applied Dynamics Laboratory.

Professor Konstantinidis has supervised 9 PhD and 13 master's students and has authored over 100 publications in leading journals and conferences, as well as the authoritative book *Mechanics of Rubber Bearings for Seismic and Vibration Isolation*. He sits on the technical committee of the Canadian Standards Association CSA S832 (*Seismic Risk Reduction of Operational and Functional Components (OFCs) of Buildings*) and has contributed provisions for unanchored rocking components to be included in the CSA N289.1 standard *General Requirements for Seismic Design and Qualification of Candu Nuclear Power Plants*.