



Research Organization: **McMaster University, Canada**

Individual Member: **Dimitrios Konstantinidis, Associate Professor and Chair in Effective Design of Structures**

Short CV:

Dimitrios Konstantinidis is an Associate Professor and Endowed Chair in Effect Design of Structures in the Department of Civil Engineering at McMaster University. He received his bachelor's, master's and PhD (2008) degrees from the University of California at Berkeley. Before joining McMaster University in 2011, he was a Postdoctoral Fellow at the Lawrence Berkeley National Laboratory. He was a Visiting Professor at Disaster Prevention Research Institute, Kyoto University 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 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*.