**Khalid M. Mosalam, PhD, PE**

Taisei Professor of Civil Engineering and PEER Director

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1. **Professional Preparation**

Cairo University Egypt Civil Engineering BS 1988

Cairo University Egypt Structural Engineering MS 1991

Cornell University Ithaca, NY Civil & Env. Engineering PhD 1996

1. **Appointments**

2016-present Director of Pacific Earthquake Engineering Research (PEER) Center

2015-present Taisei Professor of Civil Engineering

2007-present Professor, Civil and Env. Eng., Univ. of Calif., Berkeley

2015-2017 High End Foreign Expert, Civil Engineering, Tongji University, Shanghai, China

2014-2016 Chair, Structural Engineering, Mechanics & Materials Program, Univ. of Calif., Berkeley

08/12-07/13 Visiting Professor, Civil and Env. Eng., Nanyang Technological University, Singapore

08/12-07/13 Visiting Professor, Civil and Env. Eng., Nanyang Technological University, Singapore

2007-2012 Vice Chair, Civil and Env. Eng., Univ. of Calif., Berkeley

08/04-12/04 Visiting Professor, Disaster Prevention Research Institute, Kyoto Univ., Uji, Japan

01/05-07/05 Visiting Professor, Middle East Technical University, Ankara, Turkey

2003-2007 Associate Professor, Civil and Env. Eng., Univ. of Calif., Berkeley

1997-2003 Assistant Professor, Civil and Env. Eng., Univ. of Calif., Berkeley

1996-1997 Lecturer, Civil and Env. Eng., Cornell University, New York

1991-1996 Research and Teaching Assistant, Civil and Env. Eng., Cornell University, New York

1. **Products**

Closely related:

1. Arici, Y. and K.M. Mosalam, “System Identification of Instrumented Bridge Systems,” *Earthquake Eng. & Structural Dynamics*, 2003, **32**(7):999-1020.
2. Sezen, H., A.S. Whittaker, K.J. Elwood and K.M. Mosalam, “Performance of Reinforced Concrete Buildings during the August 17, 1999 Kocaeli, Turkey Earthquake, and Seismic Design and Construction Practice in Turkey,” *Engineering Structures*, 2003, **25**(1):103-114.
3. Mosalam, K.M., Takhirov, S., Hashemi, A., “Seismic Evaluation of 1940s Asymmetric Wood- Frame Building Using Conventional Measurements and High-Definition Laser Scanning,” *Earthquake Eng. & Structural Dynamics*, 2009, **38**(10):1175-1197.
4. Li, B. and K.M. Mosalam, “Seismic Performance of Reinforced Concrete Stairways During the 2008 Wenchuan Earthquake,” *J. Performance of Constructed Facilities*, ASCE, 2013, **27**(6):721-730.
5. Mosalam, K.M., S.M. Takhirov and S. Park, “Applications of Laser Scanning to Structures in Laboratory Tests and Field Surveys,” *Structural Control & Health Monitoring*, 2014, **21**(1):115-134.

Other significant:

1. Gardoni, P., Der Kiureghian, A., Mosalam, K.M., “Probabilistic Capacity Models and Fragility Estimates for RC Columns Based on Experimental Observations,” *J. Eng. Mechanics*, ASCE, 2002, **128**(10):1024-1038.
2. Marino, E.M., M. Nakashima and K.M. Mosalam, “Comparison of European and Japanese Seismic Design of Steel Building Structures,” *Engineering Structures*, 2005, **27**(6):827-840.
3. Hashemi, A., Mosalam, K.M., “Shake-Table Experiment on Reinforced Concrete Structure Containing Masonry Infill Wall,” *Earthquake Eng. & Structural Dynamics*, 2006, **35**(14):1827-1852.
4. Mosalam, K.M., M. Hube, S.M. Takhirov, S. Günay, “Teaching Innovation through Hands-on-Experience Case Studies Combined with Hybrid Simulation,” *J. Professional Issues in Engineering*

*Education and Practice*, ASCE, 2013, **139**(3):177-186.

1. Mosalam, K.M., S. Günay, “Progressive Collapse Analysis of Reinforced Concrete Frames with Unreinforced Masonry Infill Walls Considering In-plane/Out-of-plane Interaction,” *Earthquake Spectra*, 2015, **31**(2):921-943.
2. **Synergistic Activities (Selected)**
3. Conducting real-life application to demonstrate use of “Dense-Packed Wireless Sensors” for damage detection and health monitoring of woodframe structural systems: This was conducted between 2000 and 2002 by instrumenting several regions of a full-scale 3-story building tested on the UCB 6 degrees-of-freedom shaking table (part of the CUREE woodframe project funded by FEMA) using 55 2D wireless MEMS accelerometers developed by Berkeley Sensor and Actuator Center (BSAC).
4. Reconnaissance efforts from earthquake around the world: Earthquake reconnaissance efforts were coordinated and conducted after several worldwide earthquakes, including those in Japan, Turkey, Italy, China and Haiti (the 2010 Haiti Earthquake reconnaissance was funded by NSF as a RAPID project), and in the US, including the 2014 South Napa Earthquake These efforts were conducted synergistically through involvement with different teams, where several damage observation methods and tools were incorporated.
5. Development of NEES reconfigurable reaction wall seismic testing facility at UCB: The goal of NEES was to provide a geographically distributed collaboration to achieve significant improvement in modeling the seismic behavior of civil infrastructure. The UCB test facility was designed and constructed between 2000 and 2004 to support development of new hybrid testing methods, which smoothly integrate physical and numerical simulations at different locations using the Internet. This objective was explored in the NSF funded research project between 2001 and 2006 for Hybrid On-Line Experiments and Monitoring of Structural Systems. Mosalam operated (as the PI) the nees@berkeley site from 2009 to 2014.
6. Formulation of a seismic-resistance building code for energy-efficient (green) earthen architecture in Morocco: This multi-disciplinary project involved engineers, architects, and anthropologists to develop provisions for both builders and engineers to design and construct rammed earth buildings. The study (including field work in Morocco) was supported by the Getty Foundation and earned the UCB Chancellor’s Public Service Award in 2013, refer to [www.ce.berkeley.edu/news/615](http://www.ce.berkeley.edu/news/615).
7. Team co-leader for the project “Singapore-Berkeley Building Efficiency and Sustainability in the Tropics (SinBerBEST)”: The project involves more than 30 co-PIs from different disciplines of engineering and architecture from UCB and Singapore, <http://sinberbest.berkeley.edu/>. The project aims for solutions for efficient use of energy in building construction and operation in tropical climate. It is an on-going study that started in 2012 for 10 years and supported by the National Research Foundation (NRF) of Singapore.
8. Core PI for Lab 2C: Internet of Things & Societal Cyber Physical Systems: This laboratory is part of “Data Science & Information Technology Center,” one of three centers of the Tsinghua-Berkeley Shenzhen Institute, <http://tbsi.berkeley.edu/>. This is an on-going research and educational partnership established in 2014 by the UCB, Tsinghua University and the Shenzhen municipal government on the initiative of promoting research collaboration and graduate student education. This lab focuses on research related to the core technology of network intelligent sensor systems and sensing data platforms and analysis to build a smart home and wearable device industry alliance through cooperation in the data layer.