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22 June 2017 - Evening Seminar

PERFORMANCE-BASED SEISMIC DESIGN OF TALL BUILDINGS AND LESSONS LEARNED FROM PEER REVIEWING SUCH STRUCTURES

Date: Thursday, June 22, 2017
Venue: Room C300, UBC Robson Square, 800 Robson Street, Vancouver
Time: Refreshments 6:00pm, Presentation 6:30pm
Presenter: Dr. Farzad Naeim, Ph.D.
President of Farzad Naeim, Inc.
Cost: Free for SEABC Members. \$85 + tax for non-members
Registration is required: www.seabc.ca/performance

This seminar discusses performance-based earthquake engineering practice for tall buildings in United States and presents lessons learned from peer reviewing more than a dozen of such buildings. New developments embodied in the newly released PEER-TBI II and Los Angeles Tall Buildings Structural Design Council (LATBSDC) Guidelines for seismic analysis and design such buildings are reviewed. The majority of tall buildings in western United States are currently being designed using this approach rather than prescriptive code procedures. Successful further development of this method requires close collaboration between researchers and practicing engineers. Such a collaboration is needed for meaningful definition of desired performance objectives, consequences of not meeting these objectives, dependable characterization of system and component level behavior states, meaningful representation of earthquake ground motions, improved understanding of the performance of structures and their contents, soil-foundation-structure interaction, and bridging the gap between and advancing both experimental research and our analytical capabilities. This presentation will briefly discuss these issues and provides examples of problems and solutions that the speaker has encountered in dealing with these needs.

Dr. Farzad Naeim is the President of Farzad Naeim, Inc. , CEO of Mehraim Naeim International Inc. and an Adjunct Professor at UCI and a faculty member at the European School for Advanced Studies in Reduction of Seismic Risk (ROSE). He received his Ph.D. in Civil Engineering in 1982 and his J.D. with highest honors in 2002. He has served two terms (1995 and 2011) as the President of the Los Angeles Tall Buildings Structural Design Council. Dr. Naeim is a Past-President and an honorary member of EERI. He is currently Chair of California's Strong Motion Instrumentation Advisory Committee and serves on the Seismic Advisory Board of Caltrans, Board of Expert Consultants of the Los Angeles Department of Water and Power (LADWP), and Advisory Council of the Southern California Earthquake Center (SCEC). Dr. Naeim has served as Technical Director for many landmark structures in California and across the United States and has collaborated with researchers from multiple universities.

