



WEBINAR:

Seismic Response and Performance Assessment of Stair Systems

Wednesday, March 28, 2018

11:00am-12:00pm

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Date:
Wednesday, March 28, 2018

Time:
11:00am – 12:00pm

Cost:
Members: \$100
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PRESENTATION:

In-depth analysis and design of stair systems is often overlooked despite their role as a critical egress component within buildings, and hence their need to remain functional in the event of an earthquake. In effort to provide improved design guidance, the SEAOC Seismology Committee is in the process of publishing a Blue Book article which addresses this issue. A significant contribution to this publication was based on the findings from full-scale shake table experiments conducted at UC San Diego. This presentation will discuss these recent experiments and complementary numerical modeling of stair systems. The discussion will also conclude with suggestions for future research needs to increase the resiliency in stair systems in the face of future earthquakes.

PRESENTERS



Tara Hutchinson, P.E., Ph.D

Professor, University of California, San Diego

Tara Hutchinson received a Ph.D. degree in civil engineering from UC Davis in 2001 and was immediately named assistant professor at UC Irvine. Her research has focused on performance evaluation of structural and foundation components and systems. She also applies information technology to evaluate structural damage to civil infrastructure by earthquakes and other extreme environmental loads, and her findings have been reported in publications that focus on computing, computer applications, instrumentation and measurement. She serves on the board of directors of the Consortium of Universities for Research in Earthquake Engineering, and is an editorial board member of Earthquake Spectra, a professional journal of the Earthquake Engineering Research Institute.



Xiang Wang, Ph.D

Post-doctoral Scholar, University of California, San Diego

Dr. Xiang Wang is a post-doctoral scholar of the Department of Structural Engineering at the University of California, San Diego (UCSD). He received his Ph.D. degree in Structural Engineering from UCSD in 2015, and M.S. degree from the South China University of Technology in 2009. His research interests are in the areas of earthquake engineering and structural dynamics, large-scale structural testing, computational modeling, structural health monitoring and remote sensing. During his academic experience at UCSD, he has actively participated in two full-scale building shake table test programs, including the Building Nonstructural Components and Systems (BNCS) project and the HUD Cold-Formed Steel project.