



Wednesday September 19, 2018

Los Angeles and Orange County
Geo-Institute Chapters Present:

Presentation by:

Professor Jack Baker

Seismic Risk to Transportation Networks

LOCATION:

Alpine Village
883 W. Torrance Blvd.
Torrance, CA 90502
Phone: (310) 327-4384

SCHEDULE:

5:30-6:30 PM Registration and Social Hour
6:30-7:15 PM Dinner
7:15-7:30 PM LA G-I Board Elections
7:30-8:30 PM Presentation



Professor Jack Baker
Stanford University

BIOGRAPHY:

Prof. Baker joined the Stanford faculty in 2006 from the Swiss Federal Institute of Technology (ETH Zurich), where he was a visiting researcher in the Department of Structural Engineering. He has degrees in Structural Engineering (Stanford, M.S. 2002, Ph.D. 2005), Statistics (Stanford, M.S. 2004) and Mathematics/Physics (Whitman College, B.A. 2000). He has industry experience in seismic hazard assessment, ground motion selection, probabilistic risk assessment, and modeling of catastrophe losses for insurance and reinsurance companies. He is a co-founder and technical advisor for Haselton Baker Risk Group, LLC.

His awards include the Shah Family Innovation Prize from the Earthquake Engineering Research Institute, the CAREER Award from the National Science Foundation, the Early Achievement Research Award from the International Association for Structural Safety and Reliability the Walter L.

Huber Prize from ASCE, and the Eugene L. Grant Award for excellence in teaching from Stanford. In 2015-2016 he was a Visiting Erskine Fellow at the University of Canterbury. His research has been funded by the National Science Foundation, the U.S. Geological Survey, the Pacific Earthquake Engineering Research Center, the Southern California Earthquake Center, and the Google Research Awards Program, among others.

PRESENTATION SUMMARY:

This talk presents a study of seismic risk to a complex transportation system, with the goal of quantifying impacts on users of the network and identifying communities that are disproportionately impacted by disruptions. The San Francisco Bay Area transportation system is considered as a case study. Disruption is caused by earthquake shaking, where a full suite of earthquake scenarios in the region (with associated occurrence rates) are considered in order to obtain a fully probabilistic description of risk.

REGISTRATION:

Please complete your registration at our website: (www.lageoinstitute.com).

You may pay with PayPal/credit card payment option online or pay at the door with cash or a check payable to **ASCE LA Geo-Institute Chapter**

Early registration (*registration and payment received on or before 9/14/18*).....\$40
Regular registration (*registration and payment received after 9/14/18 or on-site*²).....\$50
Full-time student registration³.....Free

¹No refunds for cancellations requested after 9/17/18.

²Proof of full-time student status required on-site.