EERI NGA-East Seminar

Ground Motion Hazard for Very Hard Rock

October 10, 2019
Building 101, Lecture Room D

National Institute of Standards and Technology
U.S. Department of Commerce

SCHEDULE	AGENDA ITEM	SPEAKER
7:50 AM	*Shuttle pick-up for room-block guests (Courtyard Marriott & SpringHill Suites)*	
8:15 AM	*All attendees arrive at NIST Visitor's Center*	
8:30 – 8:50 AM	**Registration/Breakfast** at Building 101, Lecture Room D *(registered participants pick up lunch voucher)*	
8:55 – 9:05 AM	**NIST Welcome**	**Chris Segura**
9:05 – 9:20 AM	**Welcoming Remarks**	**Yousef Bozorgnia**
9:20 – 9:55 AM	**Project Overview**	**Christine Goulet**
9:55 – 10:15 AM	**NGA East Database**	**Yousef Bozorgnia**
10:15 – 10:45 AM	**Evaluation of Candidate Ground Motion Models**	**Robert Graves**
10:45 – 11:00 AM	*Coffee Break*	
11:00 – 11:35 AM	**Quantification of epistemic uncertainty in median ground motions**	**Nicolas Kuehn**
11:35 – 12:05 PM	**Standard deviation development and models**	**Linda Al Atik**
12:05 – 12:35 PM	**Questions from audience**	***Panel***
12:35 – 1:45 PM	*Cafeteria Lunch (voucher provided at morning registration)*	
1:45 – 2:10 PM	**Median adjustments for Gulf Coast Region, depth and hanging wall**	**Christine Goulet**
2:10 – 2:55 PM	**Full model implementation and hazard results**	**Linda Al Atik**
2:55 – 3:05 PM	**Accessing the reports, data, models**	**Christine Goulet**
3:05 – 3:30 PM	*Coffee Break*	
3:30 – 4:05 PM	**Site response amplification models for ergodic studies**	**Jonathan Stewart**
4:05 – 4:50 PM	**Questions from audience**	***Panel***
4:50 – 5:00 PM	**Concluding Remarks**	**Yousef Bozorgnia**
5:15 PM	*Departure of room-block guest shuttle in front of Building 101*	

EERI · U.S.NRC · Department of Energy · EPRI Electric Power Research Institute · USGS science for a changing world · PEER

SPEAKER BIOGRAPHIES

National Institute of Standards and Technology
U.S. Department of Commerce

Yousef Bozorgnia, Ph.D., P.E., is a professor at the Department of Civil & Environmental Engineering at UCLA. His expertise includes earthquake engineering and ground motion hazard, with emphasis on multidisciplinary aspects of earthquake science and engineering. He has been the principal coordinator of the interdisciplinary research projects Next Generation Attenuation (NGA), including NGA-East.

Christine Goulet, Ph.D., is the Executive Director for Applied Science at the Southern California Earthquake Center (SCEC). Her work and research interests are in the field of geotechnical earthquake engineering and applied seismology. She acts as the science lead for large-scale collaborative projects involving diverse disciplines related to seismic hazard and risk.

Jonathan Stewart, Ph.D., P.E., is a professor at the Department of Civil & Environmental Engineering at UCLA. His technical expertise is in geotechnical earthquake engineering and engineering seismology, with emphases on soil-structure interaction, ground motion and ground failure hazard characterization, and seismic risk analysis for levees and other distributed infrastructure.

Nicolas Kuehn, Ph.D., is a project scientist at UCLA. His work focuses on earthquake engineering, particularly the development of empirical ground-motion models, their application to probabilistic seismic hazard analysis, and the quantification of uncertainty associated with them. For the NGA-East project, he has worked on the generation of median models and the assessment of their uncertainty distribution.

Robert Graves, Ph.D., is a research geophysicist with the U.S. Geological Survey. His main area of study is the characterization of strong ground shaking due to earthquakes and his research relies heavily on analysis and interpretation of ground motion recordings from past earthquakes, as well as high-performance computer simulation and modeling.

Linda Al Atik, Ph.D., provides consulting and research services in ground motion characterization, site response analysis, and probabilistic seismic hazard analysis for engineering projects located in California, North America, and worldwide. These projects include a wide range of infrastructure facilities, including nuclear power plants and water and gas pipelines.

EERI U.S.NRC EPRI ELECTRIC POWER RESEARCH INSTITUTE USGS science for a changing world PEER