

PEER Researchers' Workshop August 15-16, 2024					
At the Richmond Field Station, Building 454					
Day 1: Thursday, August 15, 2024					
Time/Moderator	Session	Project Title	PI	Institution	Presenter
8:00 AM	Registration / Zoom Webinar Open				
8:30-10:00		Opening Remarks by PEER Director		PEER	Khalid Mosalam
Marc Eberhard	Regional-scale Simulation	Surrogate Modeling of Seismic Response of Bridges for Regional-Scale Simulations of Highway Networks	Gregory Deierlein	Stanford	Gregory Deierlein
		Probabilistic Regional Seismic Risk Assessment of a Los Angeles Bridge Network Using a New Generation of Fragility Functions	Henry Burton	UCLA	Henry Burton
		Bridge Rapid Assessment Center for Extreme Events (BRACE2)	Khalid Mosalam	UCB	Khalid Mosalam
		Identification of Critical Ground-Motion and Bridge Features for Performance Assessment of Regional Transportation Networks	Marc Eberhard	UW	Marc Eberhard
10:00-10:30	Break				
10:30-12:00	Sharon Yen	Overview of PEER-Bridge Program		CalTrans	Seung-Han Kim
		Determination of Recovery Bridge Corridors by Comparing Post EQ Network	Kenichi Soga	UCB	Kenichi Soga
		Remaining fatigue life assessment of bridge decks based upon a numerical-experimental SYSCOM SYStem-COMponent-Material-based approach.	Alessandro Palermo	UCSD	Ernesto Hernandez
		Hazard-Based Risk and Cost-Benefit Assessment of Temporary Bridges in California	Floriana Petrone	UNR	Floriana Petrone
12:00-1:00	Lunch				
1:00-2:30	Brandon Howland	An Overview of CalOES Research		CalOES	Megan Sullivan
		Benefit-Cost Assessment of the California Earthquake Early Warning System	Khalid Mosalam	UCB	Sharyl Rabinovici
		CalOES Airport Project	Mark Hansen	UCB	Mark Hansen
		Assessment of Earthquake Sequence effects	Khalid Mosalam	UCB	Khalid Mosalam
2:30-3:00	Break				
3:00-4:30	Sifat Muin	Development of Performance-Based Multi-hazard Engineering (PBME) Framework with Inclusion of Climate Change and Bridge Vulnerability	Michele Barbato	UCD	Lei Zhou
		Cascading Seismic and Tsunami Loads for the Design of Open Wharves	Jorge Romero	OSU	Jorge Romero
		Workshop on PBSD for Bridges: Current Practice & Future Outlook + Blind Prediction Contest	Jose Restrepo	UCSD	Jose Restrepo
		Community Sentiment Analysis for Identifying Social Vulnerabilities Following Earthquakes	Sifat Muin	USC	Sifat Muin
Day 2: Friday, August 16, 2024					
Time/Moderator	Session	Project Title	PI	Institution	Presenter
8:00 AM	Registration / Zoom Webinar Open				
8:30-10:00	Tracy Becker	TSRP & PEER Bridge Projects Overview by Associate Director		PEER	Amarnath Kasalanati
		EQSIM - Simulated Ground Motion Database	David McCallen	LBNL	David McCallen
		New Near-Fault Adjustment Factors for Caltrans Seismic Design Criteria (SDC)	Yousef Bozorgnia	UCLA	Silvia Mazzoni
		OpenSees Implementation of 3D Embedded Pile Element	Pedro Arduino	UW	Amin Pakzad
		Effects of Ground Motion Selection in Performance Uncertainty	Tracy Becker	UCB	Tracy Becker
10:00-10:30	Break				
10:30-12:00	Scott Brandenburg	Informing Predictions from Above with Community Data from Below: A Hierarchical AI	Brett Maurer	UW	Brett Maurer
		Next Generation Liquefaction Susceptibility Database: Expansion of the Laboratory Component to Leverage Pacific Northwest Soils	Armin Stuedlein	OSU	Armin Stuedlein
		Next Generation Liquefaction Susceptibility Database and Modelling	Jonathan Stewart	UCLA	Jonathan Stewart
		Next Generation Liquefaction (NGL) Models for Predicting Triggering and Manifestation of Liquefaction	Scott Brandenburg	UCLA	Scott Brandenburg
12:00-1:00	Lunch				
1:00-2:30	Matt DeJong	Regional Scale Simulation of Uncertain Response of Transportation Infrastructure Soil-Structure Systems	Boris Jeremic	UCD	Boris Jeremic
		Bayesian Inference for Finite Element Model Updating of Bridges	Hamed Ebrahimian	UNR	Hamed Ebrahimian
		Stochastic Simulator-based Uncertainty Quantification for Seismic Responses of Bridges	Ziqi Wang	UCB	Jungho Kim
		OpenSRA - Phase 2	Kenichi Soga	UCB	Kenichi Soga
2:30-3:00	Break				
3:00-4:30	Khalid Mosalam	CSMIP Activities		CGS	Hamid Haddadi
		Fiber Optic Sensing of Concrete Structures	Matt DeJong	UCB	Matt DeJong
		Development of Autonomous Drone Inspection for Bridge Maintenance	Raja Sengupta	UCB	Raja Sengupta
		Open Discussion & Closing Remarks	Discussion	All	Open microphone