

PEER Researchers' Workshop August 26-27, 2019
Building 445, Richmond Field Station, 1301 S. 46th Street, Richmond CA 94804

Day 1: Monday, August 26, 2019

| Time/Moderator | Session | Title | PI | Presenter | Institution |
|-----------------------|---|--|-------------------|------------------|--------------------|
| 8:00 AM | Registration & Breakfast | | | | |
| 8:30 AM | | Opening Remarks | | Mosalam | PEER |
| | | Liquefaction Triggering and Effects at Silty Soil Sites | Jonathan Bray | Bray | UCB |
| Tom Shantz | Geo Hazards | Analysis of fine-grained soil failure in Chiba, and development of community lab test database | Scott Brandenburg | Brandenberg | UCLA |
| | | Non-ergodic ground-motion model for California | Norm Abrahamson | Lavrentiadis | UCB |
| 10:00-10:30 | Break | | | | |
| 10:30-12:00 | | DEM Modeling of the Influence of Depositional Fabric using XRT Data | Nick Sitar | Sitar | UCB |
| | Modeling | System Level Performance Evaluation of Earthquake Resilient Bridges Using Hybrid Simulation | Khalid Mosalam | Mosalam | UCB |
| Joel Conte | | Bridge functionality instead of component damage as PBEE metric | Michael Scott | Scott | OSU |
| | | Inclusion of Modeling Uncertainty, Parameter Uncertainty and Parameter Estimation Uncertainty | Joel Conte | Deb | UCSD |
| 12:00-1:00 | Lunch | | | | |
| 1:00-2:30 | | Seismic Evaluation of the California High Speed Rail System | John Stanton | Eberhard | UW |
| | Other Systems and Hazards | Dissipative base connections for moment frame structures in transportation systems | Amit Kanvinde | Kanvinde | UCD |
| Erica Fischer | | SimCenter Tools for Natural Hazards | Sanjay Govindjee | McKenna | SimCenter |
| | | Post-earthquake fire performance of industrial facilities | Erica Fischer | Fisher | OSU |
| 2:30-3:00 | Break | | | | |
| 3:00-4:30 | | Shake Table Tests on Shallow Foundations in Liquefied Soils Supported on Helical Piles | Ramin Motamed | Motamed | UNR |
| | Experimental Research | Shake Table Tests on Shallow Foundations in Liquefied Soils - Polymer Injection | Ahmed Elgamal | Parayancode | UCSD |
| Greg Deierlein | | UNR-Stanford: Accounting for Earthquake Duration in Performance-Based Evaluation and Design | Mohamed Moustafa | Moustafa | UNR |
| | | Stanford-UNR: Accounting for Earthquake Duration in Performance-Based Evaluation and Design | Greg Deierlein | Deierlein | Stanford |
| 4:30 - 5:00 | Special Presentation: Introduction to Scientific Tool Kit for OpenSees, by Guido Camata, University G d'Annunzio, Chieti Pescara, Italy | | | | |

Day 2: Tuesday, August 27, 2019

| Time/Moderator | Session | Title | PI | Presenter | Institution |
|---------------------------|-------------------------------------|--|--------------------|------------------|--------------------|
| 8:00 AM | Registration & Breakfast | | | | |
| 8:30 AM | | Opening Remarks & Summary of Day 1 | | Kasalanati | PEER |
| | | Resolution of Non-Convergence Issues in Seismic Response Analysis of Bridges | Filip Filippou | Cohen | UCB |
| Ertugrul Taciroglu | Computation | City-scale multi-infrastructure network resilience simulation tool | Kenichi Soga | Wu/Zhao | UCB |
| | | Development of a Database and a Toolbox for Regional Seismic Risk Assessment | Ertugrul Taciroglu | Taciroglu | UCLA |
| 10:00-10:30 | Break | | | | |
| 10:30-12:00 | | CEA Project - Performance of Cripple Walls and Sill Anchorage in Wood-frame Buildings - Overview | Yousef Bozorgnia | Cobeen | WJE |
| | Collaborative Projects | CEC Project - Seismic Risk Assessment Tool for Natural Gas Storage and Transmission Systems - Overview | Jonathan Bray | Bray | UCB |
| Grace Kang | | Structural Extreme Events Reconnaissance (StEER) Network - Overview and Activities | Khalid Mosalam | Mosalam | PEER |
| | | CSSC Project - Expected Earthquake Performance of Buildings Designed to the California Building Code | Grace Kang | Kang | PEER |
| 12:00-1:00 | Lunch | | | | |
| 1:00-2:30 | | Tsunami-borne debris loading on bridges | Ian Buckle | Buckle | UNR |
| Dawn Lehman | Other Hazards and Systems | Tsunami Debris: Simulating Hazard and Loads | Patrick Lynett | Lynett | USC |
| | | New Seismically Resilient System for HSR, Ports and Vehicular Transportation Systems | Dawn Lehman | Lehman | UW |
| 2:30-3:00 | Break | | | | |
| 3:00-4:30 | | Research Needs and Funding Sources for Large, Multi-Institutional Projects: Panel & Open Discussion | | | |
| Amarnath | Other | Closing Remarks | | | |