

SMIP17 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

October 19, 2017

International House at UC Berkeley
2299 Piedmont Avenue, Berkeley, California

PROGRAM

8:15 am **REGISTRATION**

9:15 am **WELCOMING REMARKS**

Farzad Naeim, Strong Motion Instrumentation Advisory Committee (SMIAC)
John Parrish, State Geologist, California Geological Survey

INTRODUCTION

Anthony Shakal, Manager, California Strong Motion Instrumentation Program
Moh Huang, California Strong Motion Instrumentation Program

Session I

Moderator: *Marshall Lew*, AMEC Foster Wheeler and SMIAC

9:30 am **Small-Strain Damping for Ground Response Analysis as Used in Non-Ergodic Hazard Analysis – Lessons from California Recordings**

Kioumars Afshari, Pengfei Wang and *Jonathan Stewart*, UC Los Angeles

10:00 am **Nonlinear Site Response at California Downhole Arrays and Interpretation of Finite Element Simulation Results**

Ramin Motamed, Gangjin Li and Stephen Dickenson, University of Nevada, Reno

10:30 am Break

Session II

Moderator: *Bret Lizundia*, Rutherford + Chekene and SMIAC

11:00 pm **Critical Assessment of Code Torsional Provisions using CSMIP Database of Instrumented Buildings**

Yijun Xiang, Farzad Naeim and *Farzin Zareian*, UC Irvine

11:30 pm **Untangling the Dynamics of Soil-Structure Interaction using Nonlinear Finite Element Model Updating**

Hamed Ebrahimian, *Domniki Asimaki*, Danilo Kusanovic and Farid Ghahari, Caltech

12:00 pm **Lunch**
(Lunch will be provided)

12:30 pm **Observations from the September 19, 2017 M7.1 Puebla-Morelos Earthquake in Mexico** (invited presentation)
Eduardo Miranda, Stanford University

<i>Session III</i>

Moderator: *Martin Eskijian*, California State Lands Commission and SMIAC

1:00 pm **Investigation of the Spatial Variability of Seismic Input Motions for CSMIP-Instrumented Bridges during the 2014 South Napa Earthquake**
S. Farid Ghahari, Hamed Ebrahimian and *Ertugrul Taciroglu*, UC Los Angeles

1:30 pm **Relationship between Earthquake Ground Motion Intensity Measures and Embankment Dam Deformations**
Richard Armstrong, CSU Sacramento

2:00 pm Break

<i>Session IV</i>

Moderator: Wilfred Iwan, Caltech and SMIAC

2:30 pm **Investigation of Ground Motions from the 2014 South Napa Earthquake**
Silvia Mazzoni, Tadahiro Kishida and Yousef Bozorgnia, UC Berkeley

3:00 pm **Development and Evaluation of Ground Motion Intensities for Record Selection and Scaling for Response History Analyses**
Eduardo Miranda, and Hector Davalos, Stanford University

3:30 pm **Adjourn**