

SMIP16 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

October 6, 2016

Calit2 Building
University of California, Irvine, California

PRELIMINARY 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: *Wilfred Iwan*, Caltech and SMIAC

9:30 am **Development of New Ground-Motion Maps for Los Angeles Based on 3-D Numerical Simulations and NGA West2 Equations**

C.B. Crouse, AECOM and *T.H. Jordan*, SCEC (invited speaker)

10:00 am **Fragility Curves for the Rapid Post-Earthquake Safety Evaluation of Bridges**

Roy Imbsen and *Farid Nobari*, SC Solutions

10:30 am Break

Session II

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

11:00 pm **Identification and Validation of Natural Periods and Modal Damping Ratios for Seismic Design and Building Code Applications**

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

11:30 pm **Identification of Dynamic Foundation Stiffnesses and Input Motions from Strong Motion Data Recorded at CSMIP Instrumented Buildings**

S. Farid Ghahari and *Ertugrul Taciroglu*, UC Los Angeles

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

Session III

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

12:50 pm **Implications of California Vertical Array Data for Modeling of Non-Ergodic Site Response.**

Kioumars Afshari and *Jonathan Stewart*, UC Los Angeles.

1:20 pm **Investigation of the Spatial Variability of Foundation Input Motions of Bridges**

S. Farid Ghahari and *Ertugrul Taciroglu*, UC Los Angeles

1:50 pm Break

Session IV

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

2:10 pm **Investigation of Ground Motions from the 2014 South Napa Earthquake**

Silvia Mazzoni, *Todahiro Kishida*, *Robert Kayen*, *Sifat Muin*, *Christopher Markham*, *Robert Darragh*, and *Yousef Bozorgnia*, UC Berkeley

2:40 pm **Evaluation of 1-Dimensional Site Response in California Downhole Arrays**

Ramin Motamed, *Gangjin Li* and *Steve Dickenson*, University of Nevada, Reno

3:10 pm **Towards Improved Ground Motion Intensity Measures for Estimating the Collapse of Structures**

Eduardo Miranda and Héctor Dávalos-Alejo, Stanford University

3:40 pm **Adjourn**