

SMIP20 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

October 22, 2020

PRELIMINARY PROGRAM

9:00 am **WELCOMING REMARKS**

Farzad Naeim, Chair, Strong Motion Instrumentation Advisory Committee (SMIAC)
Steve Bohlen, Acting State Geologist, California Geological Survey (CGS)

9:20 am **INTRODUCTION**

Hamid Haddadi, Program Manager, California Strong Motion Instrumentation Program
Dan Swensen, Senior Civil Engineer, California Strong Motion Instrumentation Program

Session I

Moderator: *Marshall Lew*, Wood and SMIAC

9:30 am **Towards Application of HVSR Parameters in Ergodic Site Response Modeling: Database and Implementation Issues**

Tatiana Gospe, *Paolo Zimmaro*, *Pengfei Wang*, *Tristan Buckreis*, *Scott J. Brandenburg*
and *Jonathan P. Stewart*, UC Los Angeles

Sean Ahdi and *Alan Yong*, US Geological Survey

10:00 am **Analysis of Ground Motions Recorded During the 2019 Ridgecrest Earthquake Sequence**

Silvia Mazzoni, *Pengfei Wang*, *Chukwuebuka Nweke*, *Nicolas Kuehn*, *Jonathan Stewart*
and *Yousef Bozorgnia*, UC Los Angeles

Tadahiro Kishida, Khalifa University of Science and Technology

Sean Ahdi, US Geological Survey

10:30 am **Break**

Session II

Moderator: *Zia Zafir*, Kleinfelder and SMIAC

11:00 am **Characterization of Nonlinear Dynamic Soil Properties from Geotechnical Downhole Array Data**

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

11:30 am **Estimation of Site Amplification from Geotechnical Array Data using Neural Networks**

Daniel Roten and *Kim B. Olsen*, San Diego State University

12:00 pm **Lunch Break**

Session III

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

1:00 pm **Assessing ASCE-41 Acceptance Criteria for Linear and Nonlinear Procedures using Instrumented Building Data**

Laura Hernandez-Bassal and *Sashi Kunnath*, UC Davis

1:30 pm **Critical Assessment of Code Torsional Provisions for Low-Rise Buildings with Semi-Rigid Diaphragms**

Farzin Zareian, UC Irvine

2:00 pm **Break**

Session IV

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

2:30 pm **Human-Machine Collaboration Framework for Bridge Health Monitoring**

Sifat Muin, Chrystal Chern and *Khalid M. Mosalam*, UC Berkeley

3:00 pm **Recent Developments in Structural Health Monitoring**

Charles R. Farrar, Los Alamos National Laboratory

3:20 pm **An Optical Sensor and Wireless Mesh Network for Direct Measurement of Building Interstory Drift**

David McCallen, Floriana Petrone and Patrick Laplace, University of Nevada Reno

3:40 pm **Adjourn**