

SMIP24 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

October 17, 2024

FINAL PROGRAM

- 9:15 am **WELCOMING REMARKS**
Farzad Naeim, Chair, Strong Motion Instrumentation Advisory Committee (SMIAC)
Jeremy Lancaster, State Geologist and Director, California Geological Survey
- 9:25 am **INTRODUCTION**
Hamid Haddadi, Program Manager, CSMIP
Daniel Swensen, Data Interpretation Project Manager, CSMIP

Session I

Moderator: *Jonathan Stewart*, UC Los Angeles

- 9:30 am **Development of a Period-Dependent Duration Model for California**
Chih-Hsuan Sung and *Norman Abrahamson*, UC Berkeley
- 10:00 am **Implications of mHVSr Spatial Variability on Site Response Predictability**
Javier Ornelas, *Chris de la Torre* and *Jonathan P. Stewart*, UC Los Angeles
- 10:30 am **Break**

Session II

Moderator: *Marty Hudson*, Hudson Geotechnics and SMIAC

- 11:00 am **Effect of Focal Mechanism on the Directionality of Horizontal Ground Motion Intensity**
Eduardo Miranda, *Nathan Girmay* and *Alan Poulos*, Stanford
- 11:30 am **Calibration of the Near-surface Seismic Structure in the SCEC Community Velocity Model Version S**
Kim Olsen and *Te-Yang Yeh*, San Diego State University
- 12:00 pm **Lunch Break**

Session III

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

1:00 pm **Structural Response Prediction using Deep Neural Networks**

Issac Kwok-Tai Pang, Selim Gunay and *Khalid M. Mosalam*, UC Berkeley

1:30 pm **Inherent Damping During Nonlinear Seismic Response**

Dennis Bernal, Northeastern University

2:00 pm **Break**

Session IV

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

2:30 pm **Seismic Performance of Bridges with Pier Walls**

William Wang, Jack Moehle and *Tracy Becker*, UC Berkeley

3:00 pm **Application of Earthquake Early Warning for Tall Buildings**

Farid Ghahari, CSMIP

3:30 pm **Adjourn**