

**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**

<i>Session III</i>

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

1:00 pm **Prediction of Structural Response and Ground Motion 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**

<i>Session IV</i>

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**