SMIP21 Seminar Proceedings

SMIP21 SEMINAR ON
UTILIZATION OF STRONG-MOTION DATA

October 21, 2021

FINAL 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: Zia Zafir, Kleinfelder and SMIAC

9:30 am  Broadening the Utilization of CSMIP Data: Double Convolution Methodology
towards Developing Input Motions for Site Response & Nonlinear Deformation Analyses
Renmin Pretell, S. K. Sinha and Katerina Ziotopoulou, UC Davis
Jennie Watson-Lamprey, Slate Geotechnical Consultants
Dimitrios Zekkos, UC Berkeley

10:00 am  Move from Soil/Rock: Site Response Based on the Difference in the VS Profile
for the GMPE and the Site-specific VS Profile
Norman Abrahamsen, UC Berkeley

10:30 am  Break

Session II

Moderator: Bret Lizundia, Rutherford + Chekene and SMIAC

11:00 am  Utilizing Instrumented Data to Assess ASCE-41 Acceptance Criteria for Steel
Moment Frame Buildings
Laura Hernandez-Bassal and Sashi Kunnath, UC Davis

11:30 am  Collaborative Recorded Data Based Response Studies of Four Tall Buildings in California
Dan Swensen, California Strong Motion Instrumentation Program
Mehmet Celebi, U.S. Geological Survey
12:00 pm  Lunch Break

**Session III**

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

1:00 pm  **Next Generation Seismic Hazard Analysis of Embankment Dams: Case of the Long Valley Dam, CA**  
Kim Olsen, T.-Y. Yeh and Daniel Roten, San Diego State University

1:30 pm  **Artificial Intelligence-Enabled Structural Health Monitoring**  
Yuqing Gao and Khalid Mosalam, UC Berkeley

2:00 pm  Break

**Session IV**

**Moderator:** Marshall Lew, Wood and SMIAC

2:30 pm  **ShakeAlert Earthquake Warning: The Challenge for Transforming Ground Motion into Protective Actions**  
Douglas Given, U.S. Geological Survey

3:00 pm  **The Community Seismic Network for Dense, Continuous Monitoring of Ground and Structural Strong Motion**  
Monica Kohler, Caltech

3:30 pm  Adjourn