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**

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### Session III

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

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<td>1:00</td>
<td>Assessing ASCE-41 Acceptance Criteria for Linear and Nonlinear Procedures using Instrumented Building Data</td>
<td>Laura Hernandez-Bassal and <em>Sashi Kunnath</em>, UC Davis</td>
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2:00 pm  **Break**

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### Session IV

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

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<td>2:30</td>
<td>Human-Machine Collaboration Framework for Bridge Health Monitoring</td>
<td>Sifat Muin, Chrystal Chern and <em>Khalid M. Mosalam</em>, UC Berkeley</td>
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<td>3:00</td>
<td>Recent Developments in Structural Health Monitoring</td>
<td><em>Charles R. Farrar</em>, Los Alamos National Laboratory</td>
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<td>Adjourn</td>
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