PREFACE

The California Strong Motion Instrumentation Program (CSMIP) in the California Geological Survey of the California Department of Conservation established a Data Interpretation Project in 1989.   Each year CSMIP Program funds several data interpretation contracts for the analysis and utilization of strong-motion data. The primary objectives of the Data Interpretation Project are to further the understanding of strong ground shaking and the response of structures, and to increase the utilization of strong-motion data in improving post-earthquake response, seismic code provisions and design practices.

As part of the Data Interpretation Project, CSMIP holds annual seminars to transfer recent research findings on strong-motion data to practicing seismic design professionals, earth scientists and post-earthquake response personnel. The purpose of the annual seminar is to provide information that will be useful immediately in seismic design practice and post-earthquake response, and in the longer term, useful in the improvement of seismic design codes and practices. Proceedings and individual papers for each of the previous annual seminars are available in PDF format at http://www.consrv.ca.gov/CGS/smip/proceedings.htm The SMIP07 Seminar is the eighteenth in this series of annual seminars.

The SMIP07 Seminar is divided into two plenary sessions in the morning and two concurrent sessions in the afternoon. The plenary sessions in the morning include presentations by investigators of four CSMIP-funded projects and an introduction of the new U.S. National Center for Engineering Strong Motion Data. The afternoon sessions include presentations by six invited speakers on topics related to ground motion attenuation, design ground motion library, tall buildings in California, real-time structural monitoring and new building code provisions. Professor Kazuyoshi Kudo from Japan will present a luncheon address on recent developments in strong motion measurements in Japan and the damaging Niigata area earthquake of 2007.

The Seminar includes presentations by investigators of CMIP-funded projects. These projects are scheduled to be completed by the end of 2007 and the final results will be published in their final reports.

Moh J. Huang, Ph.D., P.E.
CSMIP Data Interpretation Project Manager

Members of the
Strong Motion Instrumentation Advisory Committee

Main Committee

Chris Poland, Chair, Degenkolb Engineers
Norman Abrahamson, Pacific Gas & Electric Company
Anil Chopra, UC Berkeley
Bruce Clark, Seismic Safety Commission, Leighton & Associates
C. Allin Cornell, Stanford University
Martin Eskijian, California State Lands Commission
Wilfred Iwan, California Institute of Technology
Jerve Jones, Jones & Jones
Michael Keever, Caltrans
Maurice Power, Geomatrix Consultants
Daniel Shapiro, Seismic Safety Commission, SOHA Engineers
Edward Bortugno (ex-officio), Office of Emergency Services
Robert Anderson (ex-officio), Seismic Safety Commission

Ground Response Subcommittee

Maurice Power, Chair, Geomatrix Consultants
Abbas Abghari, Caltrans
Yousef Bozorgnia, PEER
Brian Chiou, Caltrans
Marshall Lew, MACTEC Engineering & Consulting
Geoffrey Martin, Univ. of Southern California
Ben Tsai, Pacific Gas & Electric Company

Buildings Subcommittee

Chris Poland, Chair, Degenkolb Engineers
Kenneth Honda, URS Corporation
Donald Jephcott, Structural Engineer
Jerve Jones, Jones & Jones
David Leung, City of San Francisco
Bret Lizundia, Rutherford & Chekene
Eduardo Miranda, Stanford University
Farzad Naeim, John A. Martin & Associates
John Robb, Structural Engineer
Daniel Shapiro, SOHA Engineers
Chia-Ming Uang, UC San Diego

Lifelines Subcommittee

Martin Eskijian, Chair, California State Lands Commission
David Gutierrez, DWR Division of Safety of Dams
Michael Keever, Caltrans
LeVal Lund, Civil Engineer
Edward Matsuda, BART
Stuart Nishenko, Pacific Gas & Electric Company
Vern Persson, DWR Division of Safety of Dams (retired)

Data Utilization Subcommittee

Wilfred Iwan, Chair, California Institute of Technology
Representatives from each Subcommittee