

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 SMIP09 Seminar is the twentieth in this series of annual seminars.

The SMIP09 Seminar is divided into two sessions in the morning and two sessions in the afternoon. The sessions in the morning include three presentations on CSMIP-funded projects. These include analysis of the Turkey Flat ground motion prediction experiment and two presentations on utilizing recorded response data from buildings. The afternoon sessions include an invited presentation by Chris Poland on observation of structural performance during the recent earthquake in Italy, presentations by two investigators of CSMIP-funded projects on utilization of recorded data from highway bridges and design ground motions for tall buildings in the Tall Building Initiative, and an update and new features of the Center for Engineering Strong Motion Data.

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

Appreciation to Members of the Strong Motion Instrumentation Advisory Committee

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