

PREFACE

The California Strong Motion Instrumentation Program (CSMIP) in the California Geological Survey (previously known as the Division of Mines and Geology) of the California Department of Conservation established a Data Interpretation Project in 1989. Each year the CSMIP 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, in the improvement of seismic design codes and practices. The SMIP04 Seminar is the fifteenth in this series of annual seminars.

The SMIP04 Seminar is divided into four sessions. Session I includes two presentations on ground motion topics. Session II will focus on improvement of analysis procedures using strong-motion data from bridges and buildings. Session III will include two presentations on visualization of recorded building and bridge motions. Session IV will include two presentations on the new San Francisco-Oakland Bay Bridge East Span and the 1-story hospital in Templeton. The Seminar will end with a field trip to the State Capitol. Before the field trip, we have invited Joe Nicoletti to discuss the rehabilitation of the California State Capitol. Director Darryl Young of the Department of Conservation will present a luncheon address.

The seminar will include presentations by investigators of five CMIP-funded projects. The project by Rakesh Goel has been completed and his final reports will be available this year. The other four projects are scheduled to be completed by the end of 2004, so the investigators can only present preliminary or interim results. The final results will be presented at the next year's seminar (SMIP05).

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