

# **ATC-35-3**

## **Proceedings: Workshop on Improved Characterization of Strong Ground Shaking for Seismic Design**

**July 30-31, 1997  
Rancho Bernardo, California**

by

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# Preface

The ATC-35 *Workshop on Improved Characterization of Strong Ground Shaking for Seismic Design*, held in Rancho Bernardo, California on July 30 and 31, 1997, was sponsored by the U.S. Geological Survey (USGS) under the auspices of the ATC-35 Project. The ATC-35 Project has the objective of enhancing the transfer of USGS earth science research results into engineering practice. The 2-day workshop was held as one of the initial activities of the Ground Motion Initiative (GMI) component of the ATC-35 Project, which is focused on identifying needs and developing improved representations of earthquake ground motion for use in seismic design practice, including codes.

The workshop culminated a year-long planning process to identify the principal needs of engineers for improved ground motion representation and the projects that promise to meet those needs. Initially, a broad range of multi-disciplinary input was obtained from the seismic engineering and earth science professions at large in response to a Call for Input issued by the ATC-35 Project in 1996. In May 1997, a meeting prior to the workshop was held to focus on the special needs for improved ground motion representation in codes, regulations and guidelines, for buildings, bridges and other structures. Attendees at this meeting were active in the development of seismic codes, regulations and guidelines, for buildings and bridges.

The workshop in July, 1997 built on the results of the previous activities and developed a list of initial high-priority projects to improve ground motion representation in engineering practice. A brief prospectus for each of the projects was developed and all are presented in these Proceedings. The list of each project and its prospectus provides a starting point for initiating specific projects subject to availability of funding.

The Applied Technology Council gratefully acknowledges the many individuals who contributed to the workshop and its planning process. These individuals include: the numerous professionals who responded to the ATC-35 GMI Call for Input; the participants who attended the pre-workshop meeting of code development representatives; workshop participants; the ATC-35 Steering Committee; and the ATC-35 Project Team, who also functioned as the organizing committee for the various GMI planning activities. These individuals and their affiliations are listed in Appendices A, C, and D.

ATC also gratefully acknowledges the input and support of the USGS Project Officer, Thomas Holzer.

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