

ATC TECHNICAL SEMINAR ON: GUIDELINES FOR THE SEISMIC REHABILITATION OF BUILDINGS

Island of Hawaii • September 30, 1996

(Held in conjunction with the 1996 Convention of the Structural Engineers Association of California)

The Purpose of the Seminar is to provide a ½-day tutorial for structural engineering practitioners and building officials on *Guidelines for the Seismic Rehabilitation of Buildings*. The FEMA-funded *Guidelines* and companion *Commentary* provide performance based engineering concepts and other significant new features that depart significantly from previous seismic codes. (See reverse side for additional information on the *Guidelines*).

The Seminar is being held in conjunction with the 1996 Convention of the Structural Engineers Association of California (SEAOC), which will take place October 1-6, 1996 at the Westin Resort, Island of Maui. The Seminar has been designed to complement the SEAOC Convention theme: "Performance Based Seismic Engineering: Today's Applications and Tomorrow's Directions."

Seminar Program. The Seminar program is intended for practicing structural engineers and building officials. Presentations are planned on the following topics:

- Overview of the *Guidelines*
- Systematic Rehabilitation
 - General Requirements
 - Modeling and Analysis
- Simplified Rehabilitation
- Example Applications

Speakers

William T. Holmes, Rutherford & Chekene, San Francisco, Calif.

Ronald O. Hamburger, EQE International, San Francisco, Calif.

Jack P. Moehle, University of California at Berkeley

Chris D. Poland, Degenkolb Engineers, San Francisco, Calif.

Optional Seminar Handouts. Participants may purchase a complete set of the three-volume *Guidelines for the Seismic Rehabilitation of Buildings (BSSC Ballot Draft)* at a cost of \$65/set. The documents will be distributed at the Seminar.

Seminar Date, Time, and Location

September 30, 1996, 8:00 am to 12:30 pm

The Royal Waikoloan, 69-275 Waikoloa Beach Drive
Kamuela, Island of Hawaii

Sponsoring Organization

APPLIED TECHNOLOGY COUNCIL

555 Twin Dolphin Drive, Suite 550

Redwood City, CA 94065

Phone: 415/595-1542, Fax: 415/593-2320

E-mail: atc@atcouncil.org



Co-Sponsoring Organizations

BUILDING SEISMIC SAFETY COUNCIL,
Washington, DC

STRUCTURAL ENGINEERS ASSOCIATION OF
CALIFORNIA, Sacramento, California

Seminar Registration. The Seminar registration fee is \$135 (\$108 for current ATC Subscribers), and includes copies of slides/overheads, and coffee break refreshments. A late fee of \$25 will be imposed on registrations postmarked after September 15, 1996. Persons interested in registering for the Seminar should complete, detach, and submit the Seminar Registration Form to ATC.

Hotel Reservations. A block of guest rooms has been reserved for the nights of September 27 through October 1, 1996 at the negotiated rates of \$95 (garden view), \$115 (ocean view), and \$135 (ocean front), plus 10.17% tax. Reservations for accommodations can be made by contacting the Royal Waikoloan hotel directly at (800) 325-7171. In order to ensure the negotiated seminar rate, please reference "Applied Technology Council" and make your reservations prior to August 20, 1996.

Air Travel Reservations. Contact Maria Orvell at Scan the World Travel Agency (phone: 415/325-0876, fax: 415/325-0893, e-mail: reserve@scantheworld.com). The agency is a consolidator and can offer competitive airfares on regularly scheduled flights at reduced costs.

REGISTRATION FORM: ATC SEMINAR ON SEISMIC REHABILITATION GUIDELINES

NAME/ORGANIZATION _____ / _____

ADDRESS _____

CITY/STATE/ZIP CODE _____

BUSINESS PHONE/FAX NUMBER _____

Seminar Fee @ \$135 (ATC Subscriber price \$108) \$ _____

Please enroll me as an ATC Subscriber (\$25.00 per year, individual rate) \$ _____

I wish to purchase the 3-volume *Guidelines* (\$65.00 per set) \$ _____

Late Registration Fee, add \$25 per registrant (if postmarked after 9/15/96) \$ _____

TOTAL ENCLOSED[☆] \$ _____

Please send me information on the SEAOC Convention

[☆]Payment can be made by Check or Credit Card (Master Card or VISA). If paying by credit card, please provide the following information: Master Card VISA # _____

Name (exactly as it appears on the card) _____ Expiration Date _____ / _____

Checks should be made payable to ATC. Please mail your completed form with the appropriate payment to:

Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, California 94065

Guidelines for Seismic Rehabilitation of Buildings. In 1989, as a capstone project in a major, multi-year Federal program for mitigating earthquake hazards of existing (non-Federal) buildings, the Federal Emergency Management Agency (FEMA) initiated a two-phase effort to prepare a set of technically sound, nationally applicable guidelines for the seismic rehabilitation of buildings. Phase I, conducted by the Applied Technology Council (ATC) and completed in 1992, focused on the identification and resolution of a wide range of issues that should be considered during the actual preparation of guidelines in Phase II.

The Phase II effort commenced in 1992 with the establishment of a five-year, \$8-million Cooperative Agreement between FEMA and the National Institute of Building Sciences (NIBS) for preparation of *Guidelines for the Seismic Rehabilitation of Buildings*. NIBS, through its Building Seismic Safety Council (BSSC), has overall management responsibility for the project as well as technical responsibility for performance of a consensus review of the *Guidelines*. ATC, as a subcontractor to BSSC, has responsibility for preparing the *Guidelines*, *Commentary* and companion *Example Applications* volume (ATC-33 project). The American So-

ciety of Civil Engineers, also under subcontract to BSSC, has responsibility for conducting Users Workshops and capturing relevant research results.

The *Guidelines* and companion *Commentary* have been written primarily for practicing architects, engineers, and building officials (intended audience). The *Guidelines* have been developed to enable users, on a voluntary basis, to rehabilitate buildings to meet specified performance levels such as Collapse Prevention, Life Safety, and Immediate Occupancy, and performance ranges such as Limited Safety and Damage Control, for specifically defined ground motion levels. The *Guidelines* include "Simplified Rehabilitation" and "Systematic Rehabilitation" methods, new Linear Static and Nonlinear Static analysis procedures, procedures for determining acceptability of existing components, and procedures for incorporating emerging technologies.

The ballot drafts of the *Guidelines* and *Commentary* are scheduled to be completed in August 1996, after which they will be balloted by BSSC and revised, as necessary. The documents are scheduled to be published as FEMA reports 272 and 273, respectively, in September 1997.



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FIRST ANNOUNCEMENT AND REGISTRATION INFORMATION**

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