

ATC SEMINAR



SEISMIC UPGRADING OF HAZARDOUS BUILDINGS

July 16, 1998

**Pacific Gas and Electric (PG&E) Building, Lobby Level Auditorium
San Francisco, California**

**Conducted in conjunction with the
Structural Engineers World Congress
July 19-23, 1998**

*Announcement and
Registration Information*

ATC SEMINAR REGISTRATION FORM

NAME _____

ORGANIZATION _____

ADDRESS _____

CITY/STATE/ZIP CODE _____

BUSINESS PHONE/FAX NUMBER _____

Seminar Registration Fee @ \$90 (ATC Subscriber price \$72) \$ _____

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

Late Registration Fee, add \$20 per registrant (if postmarked after 7/09/98) \$ _____

ATC-40 Report, *Seismic Evaluation and Retrofit of Concrete Buildings*. (\$52, discounted price) \$ _____

TOTAL ENCLOSED[☆] \$ _____

[☆]Payment may be made by check or credit card (Master Card or VISA). If paying by credit card, please provide the following information: Master Card VISA # _____ Expiration Date _____
Name (exactly as it appears on the card) _____

Checks should be made payable to ATC. Please mail your completed form with the appropriate fees to:
Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, California 94065

ATC SEMINAR ON SEISMIC UPGRADING OF HAZARDOUS BUILDINGS

San Francisco • July 16, 1998

The Purpose of the Seminar is to present new methods and information pertinent to the rehabilitation (retrofit) of seismically hazardous buildings, focusing specifically on engineered buildings. The Seminar program has been developed for design professionals, regulators, and researchers, but also may be of interest to contractors, insurers, owners, and facility managers. The program will address seismic evaluation as well as rehabilitation, and participants will be provided with available state-of-the-art guidelines and procedures manuals.

The Seminar is being conducted in conjunction with the Structural Engineers World Congress, which will take place at the San Francisco Marriott Hotel, July 19-23, 1998.

Place and Date of the Seminar.

Pacific Gas & Electric (PG&E) Building
Lobby Level Auditorium
245 Market Street
San Francisco, California
July 16, 1998, 11:00 am to 6:00 pm*
*Registration begins at 10:30 am

Sponsoring Organization

APPLIED TECHNOLOGY COUNCIL
555 Twin Dolphin Drive, Suite 550
Redwood City, CA 94065
Phone: 650/595-1542
Fax: 650/593-2320
E-mail: atc@atcouncil.org
World Wide Web site: www.atcouncil.org



Steering Committee

. Newland Malmquist, Stephen Pelham, Charles Roeder,
Christopher Rojahn

Cover photograph courtesy of EERC, U.C. Berkeley

Seminar Handouts. Participants will have an opportunity to obtain available state-of-the-art guidelines and procedures manuals, including:

- FEMA 310 *Handbook for the Seismic Evaluation of Buildings*
- FEMA 273/274 *Guidelines and Commentary for the Seismic Rehabilitation of Buildings* (with maps, if available)
- ATC-40 report, *Seismic Evaluation and Retrofit of Concrete Buildings*
- Reports developed under the ATC-43 project, "Evaluation and Repair of Earthquake Damaged Concrete and Masonry Wall Buildings" (FEMA 306/307/308 reports to be shipped later if they are not available at the time of the Seminar)

Registration Information. The seminar registration fee is \$90 (\$72 for ATC Subscribers) and includes refreshments and FEMA reports 273 (with maps, if available), 274, 306, 307, and 308, and 310. A late fee of \$20 will be imposed on registrations postmarked after July 9, 1998. Persons interested in registering should complete, detach, and submit the Seminar Registration Form to ATC.

Accommodation Information. Persons attending the ATC seminar may reserve sleeping rooms at the San Francisco Marriott, home of the Structural Engineers World Congress (SEWC). The negotiated SEWC rates are: \$155, single; \$175, double. To reserve a room, contact the reservations department at 415/442-8755 and identify yourself as a participant in the SEWC. Reservations made after June 25, 1998 cannot be guaranteed the negotiated rate.

Location and Parking. The PG&E Auditorium is located within 4 long city blocks of the San Francisco Marriott. Parking is available at the Marriott and at numerous parking lots south of Market Street in the vicinity of the PG&E building.

Program

- 10:30 am: Registration
- 11:00 am: Introductory Remarks and Program Review; *ATC Steering Committee representative*
- 11:10 am: Overview of FEMA 310 Handbook for Seismic Evaluation of Existing Buildings; *J. Heintz*
- 11:50 am: Overview of FEMA 273 Guide-lines for Seismic Rehabilitation of Buildings; *D. Shapiro*
- 12:30 am: FEMA 273 Systematic Rehabilitation—Application of the Linear Static and Nonlinear Static Procedures, including Acceptance Criteria; *W. Holmes*
- 1:10 pm: Lunch Break
- 2:30 pm: FEMA 273 Systematic Rehabilitation—Geotechnical Considerations and Foundation Design; *C. Comartin*
- 3:00 pm: Overview of ATC-40 Procedures for Evaluation and Retrofit of Concrete Buildings; *C. Comartin*
- 3:30 pm: Example Application of ATC-40 Procedures, with Emphasis on the Capacity Spectrum Method; *C. Kircher*
- 4:15 pm: Break
- 4:30 pm: Overview of SAC Findings Pertinent to Seismic Upgrade of Steel Moment-Frame Buildings; *R. Hamburger*
- 5:15 pm: Overview of ATC-43 Methodology for Evaluation and Repair of Earthquake-Damaged Concrete and Masonry Wall Buildings;
J. Maffei
- 6:00 pm: Closure