ATC/BSSC REGIONAL TRAINING SEMINAR:

NEHRP GUIDELINES FOR THE SEISMIC REHABILITATION OF BUILDINGS (FEMA 273)

Co-Sponsored by:
Structural Engineers Association of Southern California (SEAOC)

LOS ANGELES SEMINAR
June 4th and 5th, 1999, 8:30 a.m. to 2:30 p.m.
Wyndham Hotel LA Airport
6225 West Century Blvd.
Los Angeles, California

Program and Registration Information

FEMA 273 TRAINING SEMINAR REGISTRATION FORM: LOS ANGELES

NAME ____________________________________________

ORGANIZATION _______________________________________

ADDRESS ___________________________________________

CITY/STATE/ZIP CODE __________________________________

BUSINESS PHONE AND FAX NUMBERS ________________

Seminar Registration Fee @ $120 per registrant $ ________________
Late Registration Fee, add $20 per registrant (if postmarked after May 28, 1999) $ ________________
TOTAL ENCLOSED☆ $ ________________

☆ Payment may be made by check or credit card (MasterCard or VISA). If paying by credit card, please provide the following information: MasterCard VISA # ____________________ Exp: _______ /
Name (exactly as it appears on the card) ______________________________________________________________

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
The Purpose of the Seminar is to provide in-depth training on the recently completed NEHRP Guidelines for the Seismic Rehabilitation of Buildings and companion Commentary (FEMA 273 and 274 documents).

Seminar Program. The two-day seminar program includes 12 hours of lectures on all aspects of the FEMA 273 and 274 documents. The program has been developed for practicing structural and civil engineers, architects, seismic engineering educators and students, building regulatory personnel, and other technical design professionals.

Seminar Location
Wyndham Hotel, LA Airport
6225 West Century Blvd.
Los Angeles, CA
Phone: 310/670-9000

Reduced room rate available until May 14, 1999.

Sponsoring Organizations
APPLIED TECHNOLOGY COUNCIL
555 Twin Dolphin Drive, Suite 550
Redwood City, CA 94065
Phone: 650/595-1542
Fax: 650/593-2320

BUILDING SEISMIC SAFETY COUNCIL
1090 Vermont Ave., NW
Suite 700
Washington, DC 20005
Phone: 202/289-7800

Co-Sponsoring Organization
STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA (SEAOSC)
Whittier, California
Local Contact: Don Gilbert, Phone: 562/908-6131

Financial Sponsor
FEDERAL EMERGENCY MANAGEMENT AGENCY, Washington, DC

Registration Information. The seminar registration fee is $120, which includes seminar notes, FEMA 273/274 documents, refreshments during breaks, and a box lunch on each day. A late fee of $20 will be imposed on registrations postmarked or faxed after May 28, 1999. Persons interested in registering should complete, detach, and submit the Registration Form to ATC. Space is limited, so register as soon as possible.

NEHRP Guidelines for the Seismic Rehabilitation of Buildings. In 1989, 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 ATC and completed in 1992, focused on the identification and resolution of a wide range of issues that were to 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), had 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, had responsibility for preparing the Guidelines, and companion Commentary and Example Applications. The American Society of Civil Engineers had responsibility for conducting Users Workshops and identifying relevant research results.

The Guidelines and companion Commentary were written primarily for practicing engineers, architects, and building officials. They were 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 Procedures for analysis, procedures for determining acceptability of existing components, and procedures for incorporating emerging technologies.
Overview of seismic chapter contents, including scope, historical perspective, in-place material properties, condition assessment, knowledge factor, types of masonry walls, anchorages, strength definitions, and acceptance criteria for the linear and nonlinear static analysis procedures; application to a 1-story building example, including selection of rehabilitation objectives, and estimation of seismic loads and capacities for selected components.

12:00 p.m.: Lunch Break

12:30 p.m.: Application of the Systematic Rehabilitation Method to Concrete Components and Buildings; Jack Moehle
Concrete framing types; material properties and condition assessment, general assumptions and requirements; application to a 4-story concrete frame building example, including review of initial considerations, selection of rehabilitation objective, selection of initial approach to risk mitigation, and implementation of systematic rehabilitation method and selected analysis procedures.

1:30 p.m.: Application of the Systematic Rehabilitation Method to Wood Components and Buildings; John Coil
Wood building types; special wood issues; yield capacity for wood; application of the Linear Static Procedure (the preferred analysis procedure for wood buildings); application to a 3-story wood-frame office building example, including review of initial considerations, selection of rehabilitation objective, selection of initial rehabilitation scheme, and analysis using the Linear Static Procedure (with sample calculations and capacity checks for selected components).

2:30 p.m.  Seminar Closure

The Seminar is also being given in other major cities throughout the nation. Current information about the seminar series may be found online at: www.atcouncil.org