

Improving the Quality of Seismic Design and Construction

9:00 a.m. to 5:00 p.m.

June 17th, 1999
Sheraton Hotel
Concord, California

June 21st, 1999
Wyndham Garden Hotel
Commerce, California

Sponsored by

ATC



ATC/SEAOC Joint Venture

A Partnership of the Applied Technology
Council and the Structural Engineers
Association of California

Funded by



**California
Seismic Safety Commission**

ATC/SEAOC

Training Seminars

For: Architects



Engineers



Inspectors



Session 1

for Architects



Improving the Quality of Seismic Design and Construction

Seminar Program

The purpose of each 1-day seminar (the same seminar is to be presented at both locations) is to provide practical guidance for improving the quality of seismic design, inspection, and retrofit of buildings. Each seminar will consist of three concurrent sessions, one each for architects, engineers, and building department personnel. In each session, participants will be introduced to a newly created training curriculum and set of job aids designed to promote and facilitate improvements in the quality of seismic design and construction in California. Building systems and components to be addressed include: wood-frame buildings, concrete and masonry buildings, and nonstructural components. The seminar will also address the roles and responsibilities of architects, engineers, and building officials in ensuring quality seismic design and installation of nonstructural components.

The seminars will be of interest and value to building officials, plan checkers, inspectors, architects, and practicing structural and civil engineers, particularly those who have entered their profession within the last five years.

Handouts

The seminar handouts include:

- a notebook containing an attractively formatted and easy-to-read curriculum describing how to improve the quality of seismic design, inspection, and retrofit of wood-frame buildings, masonry and concrete buildings, and nonstructural components;
- job aids (checklists and other laminated materials) to facilitate inspection and design; and
- a series of Briefing Papers that succinctly describe and summarize, in user-friendly language, fundamental information about earthquake design and performance of buildings, as well as roles and responsibilities of architects, engineers, and building officials in the seismic design and construction process.

Registration

The registration fee for the seminar, which includes handouts, lunch, and break refreshments, is \$125. A late fee will be imposed on registrations postmarked or faxed after June 10, 1999. Persons interested in registering should complete, detach, and submit the registration form to:

Applied Techology Council
555 Twin Dolphin Dr., Suite 550
Redwood City, CA 94065
or FAX it to: 650/593-2320.

Additional registration forms may be downloaded from ATC's website at www.atccouncil.org.

Topic 1: Nonstructural (Lesson N1)

- Role of the Architect in Providing Good Seismic Performance of Nonstructural Building Components
- How Earthquakes Affect Nonstructural Building Components

Topic 2: Concrete and Masonry (Lesson C3)

- Role of the Architect in Providing Good Seismic Performance of Concrete and Masonry Buildings
- Importance and Uniqueness of Concrete and Masonry Building Construction
- Effects of Earthquakes on Concrete and Masonry Buildings and Components
- Summary of the Influence of Architectural Design on Seismic Performance and Construction Quality

Topic 3: Wood Frame (Lesson W3)

- Load-Path Concepts in Wood Construction
- Shear Walls
- Seismic Concerns Regarding Irregular Configurations
- Retrofit Considerations for Wood Buildings

CEUs

Continuing Education Units (CEUs): Participants will receive documentation for 0.8 CEUs at the seminar.

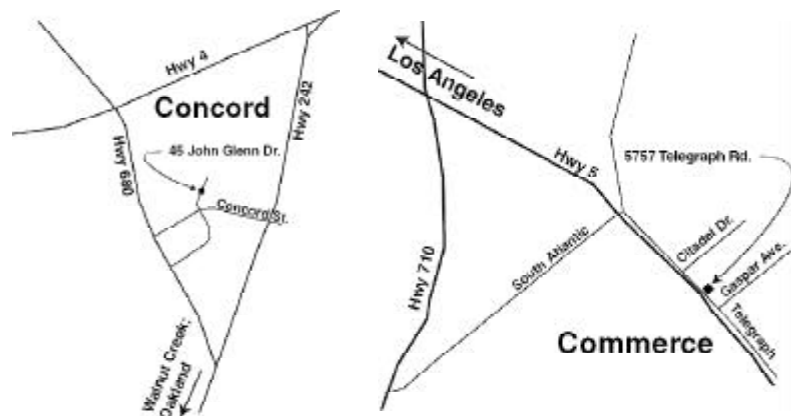
Locations

Thursday, June 17, 1999

Registration begins at 8 a.m.
9:00 a.m. to 5:00 p.m.
Sheraton Concord Hotel
45 John Glenn Drive
Concord, CA
Phone: 925/825-7700

Monday, June 21, 1999

Registration begins at 8 a.m.
9:00 a.m. to 5:00 p.m.
Wyndham Garden Hotel
5757 Telegraph Road
Commerce, CA
Phone: 323/887-8100



Session 2

for Engineers



Topic 1: Concrete and Masonry (Lesson C1)

- Role of the Design Engineer and Plan Check Engineer in Providing Good Seismic Performance of Concrete and Masonry Buildings
- Effects of Earthquakes on Concrete and Masonry Buildings and Components
- What Design Engineers and Plan Check Engineers Must do for Quality Construction in the Field

Topic 2: Wood Frame (Lesson W2)

- Interconnections
- Use of the Shear Wall Inspection Job Aid
- Irregular Configurations
- Retrofit Considerations for Soft-Story Residential Buildings

Topic 3: Nonstructural (Lesson N3)

- Role of the Design Engineer and Plan Check Engineer in Providing Good Seismic Performance of Nonstructural Building Components
- Overview of Curriculum on "Design and Reviewing Building Component Anchorage or Bracing"
- What Design Engineers and Plan Check Engineers Must do for Quality Construction in the Field

Session 3

for Inspectors



Topic 1: Wood Frame (Lesson W1)

- Load-Path Concepts in Wood Construction
- Foundation Systems
- Diaphragms
- Shear Walls and Interconnections
- Use of the Shear Wall Inspection Job Aid
- Retrofit Considerations

Topic 2: Nonstructural (Lesson N2)

- Role of the Building Official and Inspector in Providing Good Seismic Performance of Nonstructural Building Components
- Overview of Curriculum on "How Earthquakes Affect Nonstructural Components"

Topic 3: Concrete and Masonry (Lesson C2)

- Role of the Building Official and Inspector in Providing Good Seismic Performance of Concrete and Masonry Buildings
- Importance and Uniqueness of Concrete and Masonry Construction
- Effects of Earthquakes on Concrete and Masonry Buildings and Components
- Summary of Critical Field-Control Measures

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ATC/SEAOC TRAINING SEMINAR REGISTRATION FORM

NAME _____

ORGANIZATION _____

ADDRESS _____

CITY/STATE/ZIP CODE _____

BUSINESS PHONE AND FAX NUMBERS _____

Please check one location: Concord (June 17, 1999) City of Commerce (June 21, 1999)

And, please check one session: Architects Engineers Inspectors/Building Officials

Seminar Registration Fee: \$125 per registrant \$ _____

Late Registration Fee: add \$20 per registrant (if postmarked or faxed after June 10, 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 (as it appears on the card) _____

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

Applied Technology Council, 555 Twin Dolphin Dr., Suite 550, Redwood City, CA 94065 FAX: 650/593-2320

ATC/SEAOC Joint Venture Training Seminars:

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For: Architects



Engineers



Inspectors



Speakers



Christopher Arnold (Nonstructural Lessons), Architect, is President of Building Systems Development in Palo Alto, California. He is also President of the Earthquake Engineering Research Institute.



Evan Reis (Concrete and Masonry Lessons), Structural Engineer, specializes in the seismic evaluation and retrofit of concrete and masonry buildings. He served as a Curriculum Development Consultant for this ATC/SEAOC Joint Venture Training Seminar Series.



John Henry (Wood-Frame Lessons) is a Senior Staff Engineer and instructor with the International Conference of Building Officials (ICBO) at the Northern California Conference Services Office, Pleasanton, California. He is an ICBO-Certified Plans Examiner.



James E. Russell (Wood-Frame and Nonstructural Lessons), Civil Engineer, served as Curriculum Development Manager for this ATC/SEAOC Joint Venture Training Seminar Series. He is the principal author of the Earthquake Engineering Research Institute White Paper, "Construction Quality, Education and Seismic Safety."



Timothy P. McCormick (Wood-Frame Lessons) is creator and former director of the Anchor L.A. seismic retrofit program of the City of Los Angeles. He is author and committee chair of the City of Los Angeles ordinance for the seismic retrofit of soft-story multi-unit wood-frame residential buildings.



Joe Uzarski (Concrete and Masonry Lessons), Structural Engineer, has extensive experience in the seismic design of concrete and masonry buildings and is an instructor of reinforced masonry at the UC Berkeley Extension. He has written articles for the Concrete Masonry Association of California and Nevada.

