



SEAOC
Publications Catalogue
November 2005

Structural Engineers Association of California

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SEAOC Order Form

ATC Order Form

SEAOC PUBLICATIONS

The following is a listing of the publications of the Structural Engineers Association of California (SEAOC) and its member organizations, the Structural Engineers of: Southern California (SEAOSC), Northern California (SEAONC), Central California (SEAOCC), and San Diego (SEAOSD).

Also included, on pages 18, 19 and 20, is a listing of publications from the SAC Joint Venture. Please note: SAC Publications must be ordered directly from either FEMA or ATC. Ordering instructions and a separate order form are provided.

ORDERING INSTRUCTIONS

To place a publication order, please complete the Order Form (page 21, 22) as follows:

Publication Title	Place the title or a portion of the title of desired publication in this section.
Order No.	SC #04-02 Publication Number Year of Publication (04=2004) Source Code
Quantity	Enter number of copies desired.
Unit Price	This section is for the cost of a single copy of the publication.
Total Price	Multiply quantity by the unit price.
Mail, Telephone or Fax	All publications may be ordered from SEAOC or from the Member Organization designated in the Source Code, SEAONC, SEAOSC or SEAOCC. Please see page 21 of the Order Form for instructions regarding "Where to send my order".

TECHNICAL PUBLICATIONS

1999 Recommended Lateral Force Requirements & Commentary "Blue Book"

Download the 1999, Seventh Edition, Errata No 1
Order 000\$99 contact www.iccsafe.org
Member \$79.00 | Nonmember \$89.00

Overview Perspective of 1988 UBC and Blue Book [Applicable to 1990 edition.]

Major changes described. Design examples provided. November 1988 315 pp.
Order SC #88-3
Members \$32.50 | Nonmember \$40.00

1990 Blue Book Special Topics

Review of need for anchorage of nonstructural elements where most of earthquake damage occurs, plus the code criteria and applications of base isolation. June and October 1990 256 pp.
Order SC #90-4
Members \$32.50 | Nonmember \$40.00

All About Wood: Test Results of Wood Structural Panels

by Ben Schmid. Discusses damage from Northridge and other earthquakes, suggested remediation, and conclusions from recent tests. Also contains Wood Structural Panel Design by John Kariotis (16 pp). June 1994 232 pp.
Order SC #94-7
Member \$37.50 | Nonmember \$47.50

Anchorage to Concrete

Anchor types; overview of codes; inspection practices and field topics; design methods; and determination of safety factors. April 1993 391 pp.
Order SC #93-9
Member \$37.50 | Nonmember \$47.50

Changes to the Building Code: Preview of 1994 UBC

Covers the code change process, new format, California Building Code amended version of the UBC, administrative changes, general design, and seismic provisions. October 1993 301 pp.
Order SC #93-7
Member \$37.50 | Nonmember \$47.50

Design and Construction of Base Isolated Buildings

June 1988 297 pp.
Order SC #88-4
Member \$32.50 | Nonmember \$37.50

Design Review and Inspection of Prestressed Concrete Building Projects

Shortening problems. Code inspection of post-tensioned and precast prestressed concrete buildings. January 1989 162 pp.
Order SC #89-4
Member \$32.50 | Nonmember \$40.00

Earthquake Hazard Mitigation of Unreinforced Masonry Buildings Built Prior to 1934 (L.A. City Div. 88)

Implementation of Div. 88 Ordinance. Illustrates construction methods. April 1982 300 pp.
Order SC #82-2
Member \$37.50 | Nonmember \$47.50

Earthquake Hazard Mitigation of Unreinforced Masonry Buildings

L.A. City Update Div. 88. March 1983 141 pp.
Order SC #83-2
Member \$20.00 | Nonmember \$25.00

Emerging Technologies

Emerging methods of ground motion prediction; innovative auger-cast piles systems in seismic areas; the emerging IBC; high-strength concrete applications in high seismicity areas; precast concrete construction; wood research and wood design issues; computer technologies in structural design; office automation; light-gauge steel framing in seismic areas; innovative products in energy dissipation; and new methods of designing and fabricating steel buildings. June 1995 125 pp.
Order SC #95-2
Member \$37.50 | Nonmember \$47.50

Engineering & Inspection '95: Issues Generated by Northridge 6.9

Covers structural steel, drilled-in anchor installation inspection, shear wall design, nails, plywood shear wall design and inspection, epoxy, structural observation, L.A. Building Code changes, and Kobe earthquake (outline only). March 1995 96 pp.
Order SC #95-4
Member \$25.00 | Nonmember \$30.00

The New Statewide Earthquake Hazard Reduction Code

UCBC, ICBO Uniform Code for building conservation. Includes design examples. (1991 UCBC Appendix, Chapt. 1) May 1991 306 pp.
Order SC #91-3
Member \$37.50 | Nonmember \$47.50

Northridge Earthquake

Topics include general damage; seismological and geotechnical aspects; performance of base isolation, Office of Emergency Services, schools, construction in progress, and retrofitted buildings; wood frame construction (multifamily code study preliminary findings); URM/UMB and wood buildings; infill buildings; major structures; observed damage to nonductile reinforced concrete; parking structures; tilt-up constructions; failures of steel connections/welds; and possible future code developments. March 1994 206 pp.
Order SC #94-10
Member \$37.50 | Nonmember \$47.50

The One-page Green Book of Existing Building Structural Evaluation and Seismic Retrofit

Prepared by the SEAOC Existing Buildings Committee, the Green Book is intended to be used as a resource document. It deals with structural engineering issues associated with existing buildings that are planned to remain in service.

September 1997 26 pp.

Order OC #97-4

Member \$12.00 | Nonmember \$15.00

Performance-based Seismic Engineering of Buildings

Vision 2000 Report. Two-volume set. This report presents interim recommendations for engineering procedures to obtain buildings of predictable and defined seismic performance. April 1995 115 pp.

Order OC #95-9

Member \$40.00 | Nonmember \$50.00

Posting of Buildings After the Loma Prieta Earthquake

Prepared by the Tagging Subcommittee of the SEAONC Professional Practices Committee.

December 1990 30 pp.

Order NC #90-3

Member \$5.00 | Nonmember \$6.00

Prestressed Concrete Design

November 1985 200 pp.

Order SC #85-3

Member \$32.50 | Nonmember \$40.00

Recommended Lateral Force Requirements & Commentary (SEAOC Blue Book)

The 1996 sixth edition summarizes the Structural Engineers Association of California's (SEAOC) recommendations and commentary for the earthquake-resistant design of structures. 1996 504 pp.

Order SESP96 contact www.iccsafe.org

Member \$90.00 + tax

Nonmember \$90.00 + tax

Binder 000B96 | Member \$8.00 + tax

Nonmember \$12.00 + tax

Recommended Tilt-up Wall Design

"Yellow Book/" Committee report establishing reasonable guidelines of good practice in areas subjected to seismic disturbances. June 1979 20 pp.

Order SC #79-3

Member \$5.00 | Nonmember \$7.00

Reflections on the Loma Prieta Earthquake

October 17, 1989 174 pp.

Order OC #89-5

Member \$10.00 | Nonmember \$10.00

RGA Design and Construction Phase of Strengthening Existing Unreinforced Masonry Buildings

Standard forms, plan submittal requirements, and typical agreements between owner and general contractor. October 1986 113 pp.

Order SC #86-5

Member \$32.50 | Nonmember \$40.00

RGA for Unreinforced Masonry Buildings Built Prior to 1933

Contains papers on the use of the proposed Rule of General Application (RGA) in alternate design approach based on research by Agbabian, Barnes & Kariotis (ABK). October 1986 242 pp.

Order SC #86-4

Member \$37.50 | Nonmember \$47.50

SEAOC Commentary to the UCBC

June 1992 51 pp.

Order OC #91-4

Member \$17.00 | Nonmember \$17.00

Seismic Base Isolation: State of the Practice

Covers performance of base-isolated buildings in the Northridge earthquake, design ground motion issues, analysis methods and tools, new design projects, seismic retrofit, testing of isolators, sliding systems, and construction of a base-isolated building. May 1994 184 pp.

Order SC #94-8

Member \$37.50 | Nonmember \$47.50

Snow Load Design Data for the Lake Tahoe Area

December 1964 10 pp.

Order NC #64-1

Member \$5.00 | Nonmember \$6.00

Steel Moment Resisting Frame (SMRF) Connecting Systems Bulletin No. 3

By the Los Angeles County Department of Public Works Technical Advisory Panel (LACO-TAP). 1997

Order SC #97-14

Member \$15.00 | Nonmember \$15.00

Suggested Procedures for Developing Seismic Ground Motions

Prepared by SEAOC. April 1979 12 pp.

Order NC #79-2

Member \$5.00 | Nonmember \$6.00

Tentative Seismic Isolation Design Requirements

Prepared by the Base Isolation Subcommittee of the SEAONC Seismology Committee.

September 1986 38 pp.

Order NC #86-3

Member \$5.00 | Nonmember \$6.00

Test Report on Slender Walls

“Green Book.” Research report on testing of 12 concrete wall panels, nine concrete block masonry panels, and nine block panels ranging in h/t ratios between 30 and 60.

September 1982 129 pp.

Order SC #82-1

Member \$20.0 | Nonmember \$25.00

Testing Guidelines for Construction Materials by SEAOSC Research Committee

Concrete - November 1992 | Masonry - October 1993 | Steel - April 1994 | Wood - October 1987 |

Concrete Mix Proportions - November 1988

Order SC #94-11 (Set of Five)

Member (SEAOSC) Free | Nonmember

\$25.00

GUIDELINES

Guidelines for Building Permit Application Submittals - Northern California Jurisdiction

Prepared by the SEAONC Professional Practices Committee. July 1991 8 pp.

Order NC #91-2

Member \$5.00 | Nonmember \$6.00

Guidelines for Wood Diaphragms and Shear Walls

Definitions applicable to the design and construction of diaphragms and shear walls in wood-framed construction; outline of the information needed for submittals and a system for organizing this information in the drawings; and an inspector's check list for inspecting diaphragms and shear walls. Extensive examples of the definitions and illustrative examples of correct and incorrect installations are included.

September 1997 50 pp.

Order OC #97-3

Member \$25.00 | Nonmember \$35.00

Guidelines for the Inspection of High-strength Bolts

Prepared by the SEAONC Inspection Practices Committee. May 1993 8 pp.

Order NC #93-4

Member \$5.00 | Nonmember \$6.00

Guidelines for Project Design Peer Review

Prepared by the SEAONC Professional Practices Committee. June 1993 3 pp.

Order NC #93-5

Member \$5.00 | Nonmember \$6.00

Guidelines for Special Inspection and Structural Observation

Prepared by the SEAONC Construction Quality Assurance Committee. June 1998 27 pp.

Order NC #5-43-44

Member \$10.00 | Nonmember \$12.00

Guidelines for Welding Procedure Specifications

Prepared by the SEAONC Construction Quality Assurance Committee. February 1997 20 pp.

Order NC #97-7

Member \$10.00 | Nonmember \$12.00

Seismic Detailing Examples for Engineered Light-frame Timber Construction

These guidelines contain example notes and details for new, residential light-frame construction. Also included are drawing terms, lateral load path discussions, examples, commentary, example general notes, typical details, foundation details, upper-floor details, roof details, and suggestions for construction quality control. January 1997 110 pp.

Order OC #97-1

Member \$50.00 | Nonmember \$75.00

Seismic Detailing Examples for Engineered Light-frame Timber Construction-CAD Files

These AutoCAD files include example details similar to those used in construction documents (e.g., typical foundation, upper-floor, and roof). Note: The disk is available only to those who purchase or have purchased the Seismic Detailing publication. January 1997 AutoCAD file

Order OC #97-2

Member \$50.00 | Nonmember \$75.00

SMRF Connection Qualification Commentary

December 1998 3 pp.

Order NC #5-45-46

Member \$5.00 | Nonmember \$6.00

SEMINAR NOTES

2005 Summer Seminar

Design Considerations for Building Cladding Systems

Order NC #05-01

Member \$50.00 | Nonmember \$60.00

2005 Fall Seminar

ASCE 7-05 / 2006 IBC: Seismic and Wind Load Provisions

Order NC #05-2

Member \$50.00, Nonmember \$60.00

2005 South Bay Seminar

Light Gauge Steel

Order NC #05-2

Member \$50.00 | Nonmember \$60.00

2005 Spring Seminar

ASCE 31 & FEMA 356: Seismic Evaluation & Rehabilitation of Existing Buildings

Order NC #05-1

Member \$50.00 | Nonmember \$60.00

2004 Fall Seminar

Wood Construction: Design, Detailing & Plan Approval

Order NC #04-3

Member \$50.00 | Nonmember \$60.00

2004 Summer Seminar

Unique & Exotic Applications of Structural Engineering

Order NC #04-2

Member \$50.00 | Nonmember \$60.00

2004 Spring Seminar

Post-Tensioned Concrete Design & Construction

Order NC #04-1

Member \$50.00 | Nonmember \$60.00

2003 Fall Seminar

Light Gauge Steel Construction

Order NC #03-3

Member \$50.00 | Nonmember \$60.00

2003 Summer Seminar

Modern Design and Construction of Masonry and Tilt-up Builders

Order NC #03-2

Member \$50.00 | Nonmember \$60.00

2003 Spring Seminar

New Trends in Performance Based Earthquake Engineering

Order NC #03-1

Member \$50.00 | Nonmember \$60.00

2002 Fall Seminar

Practical Wood Design & Construction

Order NC #02-2

Member \$50.00 | Nonmember \$60.00

2002 Summer Seminar

Seismic Upgrade of Existing Buildings

Order NC #02-3

Member \$50.00 | Nonmember \$60.00

2002 Spring Seminar

Practical Concrete Design & Construction

Order NC #02-1

Member \$50.00 | Nonmember \$60.00

2001 Spring Seminar

Foundations

Order NC #01-1

Member \$50.00 | Nonmember \$60.00

2001 Summer Seminar

Practical Steel Design and Construction

Order NC #01-2

Member \$50.00 | Nonmember \$60.00

2001 Fall Seminar

New Technologies

Order NC #01-3

Member \$50.00 | Nonmember \$60.00

2000 Fall Seminar

2000 International Building Code

Order NC #00-3

Member \$60.00 | Nonmember \$72.00

2000 Winter Seminar

Performance Based Design Solved Examples

Order NC #00-1

Member \$60.00 | Nonmember \$72.00

Set of Three Practical Design and Detailing Seminar Notes 12/98-6/99

Post-tensioned concrete slabs-on-grade; dynamic analysis and the 1997 Code; wood diaphragm and shear wall deflections; tilt-up panel subdiaphragm example; status of cantilever column for Type V buildings; structural engineering aspects of response spectrum analysis; and analysis and understanding of response spectra. 1" binder

Order SC #99-1

Member \$40.00 | Nonmember \$50.00

Steel, Concrete, and Composite Design of Tall Buildings and How to Create a Web Page

Special emphasis on wind and seismic loads.

Presenters: Bungale Taranath, Ph.D., S.E. and Shafat Qazi, P.E. February 1999 1" binder

Order SC #99-2

Member \$40.00 | Nonmember \$50.00

1999 Summer Seminar

Wood Design—LRFD and Special Topics

Order NC #1-73-74

Member \$40.00 | Nonmember \$48.00

1999 Spring Seminar

Seismic Risk Analysis

Order NC #1-71-72

Member \$40.00 | Nonmember \$48.00

Considerations for Steel Moment Frame Buildings

Relevant new building documents and steel update including unresolved issues, evaluation of test results/design methodology; existing buildings damage inspection, repair, and modification.

September 1998 1" binder

Order SC #98-1

Member \$40.00 | Nonmember \$50.00

1998 Fall Seminar

Nonductile Reinforced Concrete

Order NC #1-69-70

Member \$40.00 | Nonmember \$48.00

1998 Summer Seminar

Performance of Wood Structures

Order NC #1-67-68

Member \$40.00 | Nonmember \$48.00

Set of Four Seismic Design Seminar Notes 12/97-5/98

Ground motion and general design, dynamic analysis, nonstructural items, nonbuilding structures, masonry, and new trends in concrete design and construction. 1" binder

Order SC #98-2

Member \$40.00 | Nonmember \$50.00

1998 Business Forum Spring Seminar

Business Evolution of a Structural Engineering Firm

Order NC #1-63-64

Member \$20.00 | Nonmember \$24.00

1998 Spring Seminar

Passive Energy Dissipation

Order NC #1-61-62

Member \$40.00 | Nonmember \$48.00

1997 Uniform Building Code (UBC) Wood Provisions

Design examples. Includes a copy of APA's 1997 National Design Specification (NDS) for Wood Construction and Supplement. February 1998 1" binder

Order SC #99-3

Member \$40.00 | Nonmember \$50.00

Residential Steel-stud Framing Construction

Design and construction methods acceptable for residential building construction with light-gauge steel framing with a focus on the recently adopted "Prescriptive Method for Residential Cold-framed Steel Framing" by CABO. January 1998 94 pp.

Order SC #SC99-4

Member \$13.00 | Nonmember \$20.00

1997 Fall Seminar

Changes in the 1997 Uniform Building Code.

Notes only

Order NC #1-55-56

Member \$50.00 | Nonmember \$60.00

Overview of the 1997 Uniform Building Code (UBC): 11/97

General overview (UBC, NEHRP, IBC 2000); ground motion (soil factors, near field); general design (load combination, base shear); dynamic analysis (linear, nonlinear); nonstructural items and nonbuilding structures; seismic isolation; material chapters (concrete, masonry, wood, steel). 1" binder

Order SC #97-11

Member \$40.00 | Nonmember \$50.00

Retrofit of Building With Flexible Diaphragms and Review of the Updated Commentary: 10/97

History of approach and review of technical issues; review of revised commentary; design of subdiaphragms and example; subdiaphragm nailing, continuous cross ties and examples; comparison of Division 91 and new building; wall anchor, pilaster anchor and details. 1" binder

Order SC #97-12

Member \$40.00 | Nonmember \$50.00

Practical Design and Detailing Seminar Notes: Constructive Review: 9/97

Owner's perspective; design and constructibility—a builder's perspective; leadership role of architect; engineer's role. 63 pp.

Order SC #97-13

Member \$13.00 | Nonmember \$20.00

1997 Spring Seminar

Structural Steel Welding

Order NC #97-6

Member \$35.00 | Nonmember \$42.00

The Structural Observer and the Inspector: 3/97

New and existing engineering and inspection of timber, concrete, steel, and masonry. 1" binder

Order SC #97-5

Member \$40.00 | Nonmember \$50.00

Practical Design and Detailing Seminar Notes

Collection: 9/97 and 1/97

Includes probabilistic ground motion mapping; seismic ground motions in the Sacramento region and proposed code changes; site-specific ground motion study of the Money Store Building; light-gauge steel structural systems; light-gauge steel connections and detailing.

Order CC #97-9

Member \$37.50 | Nonmember \$47.50

Existing Nonductile Concrete Buildings and Division 95 of the Los Angeles City Building Code: 11/96

Deformation-based three-dimensional analysis; equivalent lateral force analysis procedure; hysteretic behavior of reinforced concrete elements and masonry infills; concepts of a pseudo-nonlinear dynamic analysis; alternatives to dynamic analysis; nonlinear analysis; and analytical procedures for determination of the displacement limit state of a system. 1" binder

Order SC #96-8

Member \$40.00 | Nonmember \$50.00

1996 Fall Seminar

Current Design Issues in Structural Engineering Practice

Order NC #96-11

Member \$35.00 | Nonmember \$42.00

New Methodology in Structural Design: 9/96

Structural steel; impact of L.A. city ordinances on new construction; earthquake design and precast building systems; 1997 UBC provisions; structural observation; design and performance of masonry beams, columns, and piers; practical innovations in precast concrete seismic systems; precast cladding; and new technologies of base isolation and energy dissipation. 1" binder

Order SC #96-9

Member \$40.00 | Nonmember \$50.00

Passive Energy Dissipation Systems for New and Existing Buildings Symposium: 7/96

Joint SEAOSC and L.A. County Dept. of Public Works seminar notes. Passive energy dissipation technology; hardware and applications; principles and methods of analysis; design criteria, codes, and guidelines; ground motion issues and implications; testing program and its limitations; and DSA EHMT general guidelines. 1" binder

Order SC #96-10

Member \$40.00 | Nonmember \$50.00

1996 Summer Seminar

Nonlinear Static (Pushover) Analysis

Order NC #96-3

Member \$35.00 | Nonmember \$42.00

Practical Design and Detailing Seminar Notes

Collection: 12/95 and 4/96

Includes understanding earth embankment shoring; from foundation to response spectra; design using earthquake records; FEM/1—a finite element computer program for the nonlinear static analysis of reinforced masonry building components; and application of FEM/1 to seismic design.

Order SC #96-1

Member \$30.00/set | Nonmember \$37.50/set

Practical Design and Detailing Seminar Notes

Collection: 11/95 and 1/96

Includes welding procedure specifications; structural steel: availability, materials fabrication and welding costs; application of testing equipment for welded structures; specifying concrete; epoxy injection of cracks in concrete; and quality concrete floors on ground.

Order CC #96-5

Member \$37.50 | Nonmember \$47.50

Timber Design Seminar Notes

by David P. McKenny, S.E. Discusses types of timber, allowable stresses, factors, and fasteners.

Order CC #96-6

Member \$37.50 | Nonmember \$47.50

1995 Fall Seminar

Achieving Construction Quality Assurance

Order NC #95-18

Member \$30.00 | Nonmember \$36.00

1995 Spring Seminar

The Great Hanshin Earthquake Disaster: What Worked and What Didn't

Order NC #95-1

Member \$20.00 | Nonmember \$24.00

Practical Design and Detailing Seminar Notes

Collection: 12/94, 2/95, 4/95, and 6/95

Includes how to write and present a report; wood shear wall update; light-gauge steel; concrete shear wall boundary conditions; masonry wall frames; welding; epoxy injection; information superhighway; writing technical papers; 1994 UBC update--County of L.A. Adoption; code unification/ICBO update; and City of L.A. emergency provisions for wood and steel construction.

Order SC #95-5

Member \$37.50/set | Nonmember \$47.50/set

Findings and Recommendations of the City of Los Angeles/SEAOSC Task Force on the Northridge Earthquake: 11/94

Notes from all-day seminar covering most building types. 270 pp.

Order SC #94-6

Member \$45.00 | Nonmember \$55.00

1994 Fall Seminar

The Developing Art of Seismic Engineering

Order NC #94-1

Member \$30.00 | Nonmember \$36.00

1994 Spring Seminar

Northridge Earthquake: Lessons Learned

Order NC #94-2

Member \$30.00 | Nonmember \$36.00

Practical Design and Detailing Seminar Notes Collection: 12/93-6/94

Includes downhill frame design for residential units; organization of drawings and calculations; test and inspection requirements: OSA and OSHPD; specification: book, sheet, general notes; designing efficient panelized roof structures; special inspection: who, when, and why; structural observation: how it should be performed and reported; selecting loading criteria: live, dead, lateral—code minimum vs. marketable; braced frames; embedded anchors in reinforced masonry; foundations: active and passive loads—allowable foundation and lateral pressures; and joints in masonry and concrete constructions and expansion.

Order SC #94-12

Member \$37.50 | Nonmember \$47.50

Testing of Welded Moment Connections in Response to the Northridge Earthquake—a presentation by Dr. Michael D. Englehardt, September 6, 1994.

Notes only (76 pp.)

Order NC #94-5

Member \$5.00 | Nonmember \$7.50

1994 Special Seminar

Unreinforced Masonry Building Rehabilitation Update: Design Issues and Implementation

Order NC #94-3

Member \$40.00 | Nonmember \$48.00

Structural Concrete Facts—or Fiction?

Notes from joint seminar with American Concrete Institute, Southern California Ready Mix Concrete Association, and SEAOSC.

Covers design of concrete parking structures, office buildings, and parking garages, as well as profitable use of concrete and what worked and did not in Northridge earthquake. 1994 78 pp.

Order SC #94-9

Member \$25.00 | Nonmember \$30.00

1993 Fall Seminar

Nonstructural Components: Design and Detailing

Order NC #93-1

Member \$30.00 | Nonmember \$36.00

1993 Spring Seminar

Wood Design Today and Tomorrow

Order NC #93-2

Member \$30.00 | Nonmember \$36.00

Retrofit of Existing Tilt-up Buildings and Infill Frame

Notes from one-day seminar based on work of SEAOSC Existing Buildings Committee and Tilt-up and Infill Frame subcommittees. Covers Prop. Div. 91 of LABC, SEAOSC Commentary on Div. 91, Chapt. 95 of L.A. County, and subdiaphragms. Includes design examples. May 1993 142 pp.

Order SC #93-8

Member \$37.50 | Nonmember \$47.50

1993 Special Seminar

San Francisco Unreinforced Masonry Building Ordinance

Order NC #93-3

Member \$50.00 | Nonmember \$60.00

Practical Design and Detailing Seminar Notes Collection: 12/92-6/93

Includes: strengthening wood-framed houses for seismic retrofit; light-weight curtain walls; concrete design mix; ash admixture; guidelines for review and testing of stone cladding; steel detailing: concerns and solutions; nonstructural elements (SMACNA), fire sprinklers, HVAC ducts, ceiling bracing, equipment; structural observations of post-tension concrete construction; roof drainage and its impact on structural systems; who should design steel-stud framing—engineer or subcontractor; and glu-lam beam design: simple span vs. cantilever.

Order SC #93-10

Member \$37.50 | Nonmember \$47.50

1992 Fall Seminar

Earthquake Ground Motion and Foundation Design

Order NC #92-1

Member \$50.00 | Nonmember \$60.00

Strengthening Unreinforced Masonry Buildings

A seminar for building owners. May 1992 20 pp.

Order NC #92-3

Member \$5.00 | Nonmember \$6.00

**Practical Design & Detailing Seminar Notes
Collection: 3/91-6/92**

Includes ductile concrete joint detailing; how occupancy and construction types affect the engineer; subdiaphragms; wind design; base plate moment connections; floor vibrations; anchor bolts in unreinforced masonry; special inspection—what they are they looking for; mild steel required in unbonded prestressed concrete; timber connections—good and bad; problems in detailing and construction of structural steel; dynamic analysis or not; new admixture for concrete; strength design of reinforced masonry shear walls; light-gauge steel framing; Blue Book diaphragm criteria; how to design steel racks; and residential frame construction type V.

*Order SC #92-4
Member \$37.50 | Nonmember \$47.50*

1991 Fall Seminar

Implementation and Performance of Structural Details

*Order NC #91-1
Member \$50.00 | Nonmember \$60.00*

1990 Fall Seminar

Evaluation and Strengthening of Unreinforced Masonry Buildings

*Order NC #90-2
Member \$50.00 | Nonmember \$60.00*

1989 Spring Seminar

1988 UBC, SEAOC New Seismic Design Criteria

*Order NC #89-1
Member \$25.00 | Nonmember \$30.00*

1988 Fall Seminar

1988 UBC, SEAOC New Seismic Design Criteria

*Order NC #88-2 (#1-21, #1-22)
Member \$25.00 | Nonmember \$30.00*

1988 Spring Seminar

Standards of Practice for Computer Aided Engineering

*Order NC #88-1
Member \$5.00 | Nonmember \$6.00*

Symposium on Inspection

May 1988 122 pp.

*Order SC #88-5
Member \$32.50 | Nonmember \$40.00*

1987 Fall Seminar

Existing Buildings: Evaluation and Rehabilitation

*Order NC #87-1
Member \$20.00 | Nonmember \$24.00*

**Shop Drawing Review and Job Observation: Joint
SEAOSC/AIA Seminar Notes**

Recommended practice methods, sample forms, and procedures. May 1986 190 pp.

*Order SC #86-6
Member \$32.50 | Nonmember \$40.00*

Learning From Earthquakes

Seminar lectures by expert quake chasers. Published by SEAONC. March 1986 142 pp.

*Order NC #86-2
Member \$10.00 | Nonmember \$12.00*

Design of Masonry and Tilt-up Concrete Slender Walls

Joint seminar SEAOSC/ACI. Techniques of strength design for masonry and concrete slender walls. Considerations and precautions are based on work of SEAOSC/ACI research program. September 1985 40 pp.

*Order SC #85-4
Member \$10.00 | Nonmember \$12.50*

Evolution of Earthquake Codes Since San Fernando

Papers from 1974, 1975, 1981, and 1985 SEAONC seminars.

*Order NC #85-1
Member \$45.00 | Nonmember \$54.00*

1984 Spring Seminar

Excavations/Foundations

*Order NC #84-1
Member \$20.00 | Nonmember \$24.00*

Design and Construction of Foundations and Deep Retained Excavations

Papers from 1970 and 1984 SEAONC seminars.

*Order NC #84-2
Member \$25.00 | Nonmember \$30.00*

Fix 'em

Joint SEAOSC/EERI seminar. Identification and correction of deficiencies in earthquake resistance of existing buildings. February 1982 74 pp.

*Order SC #82-3
Member \$10.00 | Nonmember \$12.50*

Current and Projected Utilization of Probabilistic Risk Analysis

by John A. Blume, from ASCE/SEAONC seminar Probability and Seismic Risk Analysis lecture. April 17, 1980 35 pp.

*Order NC #80-2
Member \$6.00 | Nonmember \$8.00*

SEAONC/ASCE 1974 Spring Seminar

Earthquake Codes in Ferment

*Order NC #74-1
Member \$45.00 | Nonmember \$54.00*

SEAONC/ASCE 1970 Fall Seminar

Design and Construction of Deep Retained Excavations

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Seismology Committee Reply Regarding 1997 UBC Eq. 30-7 and Drift

Seismic Design by Structures on Liquefiable Soils by Marshall Lew

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Diaphragm-Rigidity Assumptions for
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FEMA/SAC GUIDELINES

The Federal Emergency Management Agency and The SAC Joint Venture are pleased to announce the publication of four new publications:

You will need to do a search on the FEMA Web site to find information about the documents listed below--www.fema.gov

New Steel Moment-Frame Building

FEMA 351 – Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-Frame Buildings

FEMA 352 – Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment-Frame Buildings

FEMA 353 - Recommended Specifications and Quality Assurance Guidelines for Steel Moment-Frame Construction for Seismic Applications

FEMA 354 - A Policy Guide to Steel Moment-Frame Construction

FEMA 350 – Recommended Seismic Design Criteria for

These documents present findings and design recommendations based on more than six years of intensive study of the behavior of moment-resisting steel frames in earthquakes. It is anticipated that many of the recommendations in these documents will be adopted into the AISC design specifications, AWS welding code and the International Building Code. Perhaps of most interest to practicing engineers, FEMA 350 contains a series of prequalified connection details. When used within the limits specified, and designed and detailed as prescribed in FEMA 350, it is intended that these prequalified details meet all requirements of 1997 UBC Chapter 22, Div. IV, 7.2.c-2; UBC Chapter 22, Div. V, 2213.7.1.1 and the AISC Seismic Provisions Section 9.2; all of which require testing of connections to demonstrate their adequacy; without the need to perform further testing.

The Federal Emergency Management Agency will distribute these volumes to all SEAOC members, as well as to members of other SEAs in the Western United States. These volumes can also be obtained, free of charge, from FEMA by calling 1-800-480-2520. Please do not call for these documents if you are an SEA member, as this will result in you receiving duplicate copies.

Important Warning. Users of these documents should be aware that some of the prequalified connections include a requirement for specific detailing of the weld access hole in beam webs, at beam flange to column flange welds. Seismic Structural Design Associates, Inc. (SSDA) has indicated a belief that this weld access hole detailing is in violation of their U.S. Patent No. 5,680,738. The United States Department of Justice has issued a finding that there is no such violation. Until actual litigation on this issue proceeds, and a court determination is made, the matter remains in question. Users of the documents should be aware that specification of the prequalified details on project documents with the recommended weld access holes could result in litigation.

The SAC project team recommends the following modifications to the prequalifications contained in FEMA 350, for those cases where the recommended weld access hole is not used:

Reduced Beam Section (RBS) Connections – may be used without the recommended access hole detailing

Welded Unreinforced Flange / Bolted Web Connections – are not prequalified without the recommended access hole

Welded Unreinforced Flange / Welded Web Connections – are prequalified only for Ordinary Moment Frame service, without the recommended access hole

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