



Design of Masonry Structures

A Practical Seminar for Practicing Engineers

Get the latest information on how to use the new masonry building code. This full-day seminar will focus on the new requirements and revised provisions of 2015 IBC Chapter 21 and the referenced masonry material standard TMS 402/ACI 530/ASCE 5. Both working stress and strength design of reinforced concrete masonry will be covered. Masonry building elements will be designed per the new code by manual and automated methods. The seminar material is designed to provide the engineer and code user with practical design knowledge.

Plan now to attend! This is the only live masonry design seminar to be presented during this code cycle.

Seminar Topics: *including explanation of code provisions and step-by-step design examples*

- Masonry Materials & Code Overview
- Beam and Column Design
- Walls Out-of-Plane
- Slender Wall Design
- Shear Wall Design
- Anchor Bolts
- Masonry Veneer
- Crack Control
- Quality Assurance/Constructability

Seminar Times:

Registration begins at 7:30 a.m. The seminar will be presented from 8:00 a.m. to 4:30 p.m. Morning coffee service, lunch, and afternoon break refreshments are provided.

Seminar Materials:

All participants will receive a seminar workbook, which includes a bound set of course notes and masonry technical bulletins.

Other design reference material and masonry design aids will be available for purchase at special seminar prices.

Continuing Education:

Certificates of attendance listing contact hours that can be used for continuing education PDH units will be issued. The seminar will be registered with the AIA.

Dates and Locations:

DECEMBER 7, 2016 - SPOKANE, WA

DECEMBER 15, 2016 - SEATTLE, WA

FEBRUARY 8, 2017 - OREGON CITY, OR

Instructors:



Edwin T. Huston, P.E., S.E. is a principal of Smith & Huston Inc. in Seattle. He has over 40 years of experience in structural design; evaluation; investigation; and code development. Mr. Huston is a Fellow of The Masonry Society and a contributing author to the *Masonry Designer's Guide*. He currently serves on NCSEA, MSJC, and ASCE committees.



Steven W. Hawk, P.E., S.E. is a senior structural engineer with Coffman Engineers in Hood River, OR. He has 20 years experience in structural design of commercial, institutional, and residential projects involving all materials. Mr. Hawk also has experience in design/build, construction and project management. He was an adjunct professor at Gonzaga University.



John M. Hochwalt, P.E., S.E. has practiced structural engineering for nearly 30 years and is an Associate with KPFF Consulting Engineers in Seattle. He is the co-author of the *Reinforced Masonry Engineering Handbook* and the *Design Guide for Structural Brick Veneer*, and teaches review courses on masonry design. Mr. Hochwalt serves on the TMS 402/602 main committee and chairs the subcommittee for seismic and limit states design.



Jeff Mitchell, P.E., S.E. is a senior structural engineer with Coffman Engineers in Spokane. He has over 9 years of structural engineering experience in the industrial, commercial, residential, defense, education and healthcare industries. Mr. Mitchell has worked on multiple design/build teams as the lead structural engineer and as project manager for large multi-discipline teams.



Raymond T. Miller, P.E., S.E. is the founder of Miller Consulting Engineers, Portland, Oregon. He has over 50 years of structural engineering experience providing design analysis and review for a wide range of structure types. Mr. Miller taught a course on advanced masonry design at Portland State University for many years. He has earned Fellow status with both the American Consulting Engineers Council and The Masonry Society, having served as TMS president.

Four Easy Ways to Enroll



Internet:
<http://www.nwcma.org/seminar>



Phone:
 425.697.5298



Mail to:
 NWCMA
 16300 Mill Creek Blvd, #208-C
 Mill Creek, WA 98012



Fax:
 425.697.2679

Seminar Registration Please check seminar location and date

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|---|---|--|
| <input type="checkbox"/> Spokane, WA - December 7, 2016
Instructors: Ed Huston, S.E.
Jeff Mitchell, S.E.
<i>To save, register by Nov. 23, 2016</i> | <input type="checkbox"/> Seattle, WA - December 15, 2016
Instructors: Ed Huston, S.E.
John Hochwalt, S.E.
<i>To save, register by Dec. 1, 2016</i> | <input type="checkbox"/> Oregon City, OR-February 8, 2017
Instructors: John Hochwalt, S.E.
Steve Hawk, S.E.
<i>To save, register by Jan. 25, 2017</i> |
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Fees and Sign-up

Space is limited, please register early! You may register by mail, fax, web, or phone. Registration will not be confirmed until registration fee is received. **Please complete one application per person.**

Early Registration Fee - save by registering 14 days before your seminar

\$225.00 Early Registration Fee (\$195.00 Additional participants from same office location)

Add \$35.00 to above fees for registrations received less than 14 days in advance.

- Check or Money Order (payable to Northwest Concrete Masonry Association)
 Bill Me (copy of purchase order must be provided)
 Credit Card via Paypal (check one) Visa Mastercard Discover American Express

Card Number: _____ Name on Card: _____

Billing Address: _____

Exp. Date: _____ CCV # (last 3 digits on back of card): _____

Name: _____ Phone: _____ Fax: _____

Company: _____

Email Address: _____

Address: _____

City/State/Zip: _____

Registration Fee @ \$225	\$ _____
2nd Registrant @ \$195	\$ _____
Late Fee	\$ _____
Total Due	\$ _____

Refund Policy

Substitutions are accepted at any time. If you notify us that you are unable to attend 7 or more business days before the seminar we will refund your registration fee. Cancellation requests received between 4-7 business days before the seminar will be subject to a \$75.00 administrative fee. No refunds will be given for cancellations received 3 business days or less prior to the seminar or for "no shows".

Confirmation

You will receive confirmation of your registration, including the date, location, and address of your seminar. Please register early. *If insufficient enrollment necessitates canceling the seminar, all paid attendees will receive registration refunds.*

Sponsors:

 Northwest Concrete Masonry Association	 Structural Engineers Association Of Washington	 Structural Engineers Association Of Oregon	 Northwest Cement Council	 Masonry Institute of Washington	 Masonry Industry Promotion Group	 Masonry Institute of Oregon
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