



Shear Wall Design

TUESDAY, DECEMBER 3, 2019

AL & FL 6 PDHs

Alabama AGC Conference Center
 5000 Grantswood Road
 Irondale, AL 35210

REGISTRATION DETAILS ON BACK

SEAoAL all-day member price: \$175 early registration/ \$195 late registration
Non-member all-day price: \$195 early registration/ \$215 late registration

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| 8:00 a.m. — 8:30 a.m. | Registration & Breakfast -Sponsored by Parrot Structural Services |
| 8:30 a.m. — 10:00 a.m. | Narrow Wall Bracing & Alternate Pre-Manufactured Solutions, Keith Cullum |
| 10:00 a.m. — 10:15 a.m. | Break |
| 10:15 a.m. — 11:45 a.m. | Shear Wall Design Using AWC SDPWS, Keith Cullum |
| 11:45 a.m. — 12:30 p.m. | Lunch Sponsored by Simpson Strong-Tie |
| 12:30 p.m. — 1:30 p.m. | Cold-Formed Steel Design and the IBC 2018, Dr. Roger LaBoube |
| 1:30 p.m. — 1:45 p.m. | Break |
| 1:45 p.m. — 2:45 p.m. | Design of Cold-Formed Steel Shear Wall Systems, Dr. Roger LaBoube |
| 2:45 p.m. — 3:00 p.m. | Break |
| 3:00 p.m. — 4:00 p.m. | Frequently Asked Design Questions, Dr. Roger LaBoube |

Keith Cullum, LEED, P.E. Keith is a Structural Engineer at Simpson Strong-Tie’s McKinney, TX branch covering the Southeast region of the US where his primary responsibilities include product testing, technical support, education and training, and post-disaster assessment. After graduating from Cal Poly San Luis Obispo with a degree in Architectural Engineering, he worked for a consulting firm in Southern California designing multi- and single-family residential structures out of cold-formed steel and wood. Prior to joining Simpson Strong-Tie in 2012, he worked for a steel deck manufacturer performing R&D and providing product technical support and promotion.

Narrow Wall Bracing in the IRC and Alternate Pre-Manufactured Solutions—Brief review of lateral forces and failure modes for wood frame residential structures with discussion on limitations and design issues for IRC-compliant designs, followed by overview of alternate solutions for bracing and engineered designs using pre-manufactured shear walls.

Shear Wall Design Using AWC SDPWS—Review of code and standard provisions for the design of site-built shear walls including aspect ratio limitations, sill plate anchorage, and commonly accepted design methodologies – segmented, perforated, and force transfer around opening (FTAO).

Dr. Roger A. LaBoube Roger is Curator’s Distinguished Teaching Professor Emeritus of Civil Engineering and Director of the Wei-Wen Yu Center for Cold-Formed Steel Structures at the Missouri University of Science & Technology (formerly University of Missouri-Rolla). Dr. LaBoube holds B.S., M.S., and Ph.D. in Civil Engineering from the University of Missouri-Rolla. Dr. LaBoube has an extensive background in the design and behavior of cold-formed steel structures. His research and design activities have touched on many facets of cold-formed steel construction to include: cold-formed steel beams, panels, trusses, headers, wall studs as well as bolt, weld, and screw connections. Dr. LaBoube is active in several professional organizations and societies, including a member of the Cold-Formed Steel Engineers Institute (CFSEI), American Iron and Steel Institute’s Committee on Specifications for the North American Specification for the Design of Cold-Formed Steel Structural Members and chairperson of the AISI Committee on Framing Standards. He is a Registered Professional Engineer in Missouri.

Cold-Formed Steel Design and the IBC 2018— Adopted into IBC 2018 are both updates and new design standards for cold-formed steel member and connection design.

Design of Cold-Formed Steel Shear Wall Systems—The lateral systems employed by cold-formed steel framing assemblies are typically either shear walls or strap braced walls. The design of both assemblies are governed by the AISI Standards, North American Standard for Cold-Formed Steel Structural Framing and the North American Standard for Seismic Design. Design guidance will be discussed for both wind and seismic loading of shear wall assemblies.

Frequently Asked Design Questions—This lecture will discuss some of the common questions posed to the Cold-Formed Steel Engineers Institute (CFSEI) Hotline. Design standards and building codes leave much to the discretion of the engineer, as it should be. Let’s close our seminar with a discussion of design issues that may not be explicitly addressed by the design standards.

REGISTRATION FORM

Please print legibly. Companies with multiple attendees, please fill out a form for each person.

| | | |
|---------|---------|------|
| Name | Company | |
| Address | City | Zip |
| Email | Phone | Cell |

Registration received *by* Wednesday, November 27th, 2019

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|---|--------|---|-------|---|----------|
| <input type="checkbox"/> SEA Member (all day) | \$ 175 | X | _____ | = | \$ _____ |
| <input type="checkbox"/> Non Member (all day) | \$ 195 | X | _____ | = | \$ _____ |
| TOTAL | | | | | \$ _____ |



Late Registration: received *after* November 27th 2019

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|---|--------|---|-------|---|----------|
| <input type="checkbox"/> SEA Member (all-day) | \$ 195 | X | _____ | = | \$ _____ |
| <input type="checkbox"/> Non Member (all-day) | \$ 215 | X | _____ | = | \$ _____ |
| TOTAL | | | | | \$ _____ |

Full Registration includes **YUMMY** breakfast, snacks and lunch.

***TO PAY BY CREDIT CARD www.seaoal.com**

To join SEAoAL

SEAoAL Membership Registration

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|---------------------------------------|-------|---|-------|---|----------|
| <input type="checkbox"/> Professional | \$ 95 | X | _____ | = | \$ _____ |
| <input type="checkbox"/> Associate | \$ 40 | X | _____ | = | \$ _____ |
| <input type="checkbox"/> Student | \$ 25 | X | _____ | = | \$ _____ |
| <input type="checkbox"/> Affiliate | \$150 | X | _____ | = | \$ _____ |
| TOTAL | | | | | \$ _____ |

**If paying by check, make checks payable to:
SEAoAL**

Mail check and registration form to:
Structural Engineers Association of Alabama
P.O. Box 660584, Birmingham, AL 35266-0584

SEMINAR LOCATION

Alabama AGC Conference Center
5000 Grantswood Road
Irontdale, AL 35210
(205) 451-1422

HOTELS NEAR ALABAMA AGC

Hampton Inn & Suites
3930 Grants Mill Road
205-933-0444
Holiday Inn Express
811 Old Grants Mill Road
205-957-0555

SEAoAL membership is open to all structural engineers and companies affiliated with the structural engineering profession. For more information about SEAoAL membership: professional, associate, student, retired or affiliate, please contact Rhea Williams, Executive Director, 205-601-2345 or email: rhea@karmamanagementinc.com