



SEAoAL Winter Seminar

ASCE 7-2010

Wind Design & Structural Steel Design

TUESDAY, DECEMBER 11TH, 2012

Cahaba Pump Station
4012 Sicard Hollow Road
Birmingham, AL 35243
(205) 967-0340

REGISTRATION DETAILS ON BACK

SEAoAL member price: \$175 early registration/ \$205 late registration
Non-member price: \$215 early registration/ \$245 late registration

SCHEDULE

- 7:30 a.m.—8:00 a.m. **Registration**
- 8:00 a.m.—9:20 a.m. **T.R. Higgins Lecture**
- 9:30 a.m.—12:00 p.m. **Design of Reinforced Steel Members**
- 12:00 p.m.—1:00 p.m. **Lunch**
- 1:00 p.m.—4:50 p.m. **Significant Changes to ASCE 7-10 Wind Provisions**

SEMINAR OVERVIEW: TOTAL OF 8 PDHs

T. R. HIGGINS LECTURE—MICHAEL BRUNEAU, P.E., Ph.D., F.ASCE

From steel plate shear walls to seismic design, Michel Bruneau is recognized as a rising star in the world of structural steel. And this year, he will present the T.R. Higgins Lecture at the 2012 NASCC: The Steel Conference. While he was awarded the T.R. Higgins Lectureship Award based on his recent paper on steel plate shear walls, his lecture will include other elements of his work as well—which has encompassed new design concepts for seismic design, blast-resistance, and multi-hazard resistance concepts. His research at the University of Buffalo, where he is a professor and former director of MCEER, includes concepts for ductile steel plate shear walls, ductile bridge diaphragms, tubular eccentrically braced frames, structural fuses and controlled-rocking piers.”

PRACTICAL DESIGN GUIDELINES—BO DOWSWELL, P.E., Ph.D.

This seminar presents practical guidelines for design of reinforced wide flange beams and columns using the 2010 AISC *Specification*. Several papers have been published on this topic; however, the existing guidance is based on the allowable stress approach, which produces over-conservative results when compared to recent tests and finite element results. Existing research papers and reports have been reviewed by the author to determine a strength approach that is compatible with the 2010 AISC *Specification*. Considerations that affect the strength and stability of reinforced members, such as residual stresses and welding distortion are discussed; however, the main focus of the seminar is the presentation of practical design guidelines.

SIGNIFICANT CHANGES TO ASCE 7-10 WIND PROVISIONS—ERIC STAFFORD, P.E.

The next edition of ASCE 7 includes many significant technical and organizational changes to the wind load provisions from the 2005 edition (ASCE 7-05). This course will address the significant changes in the wind load provisions of the 2010 Edition of ASCE 7 Minimum Design Loads for Buildings and Other Structures. The wind load provisions have undergone a substantial reorganization to improve the clarity of applicability for the various design methods and procedures. The wind maps have been updated to reflect strength design –level wind speeds and availability of new data. A new simplified procedure has been added for buildings up to 160 feet high. These changes, along with many other technical changes will be covered in this course with additional discussion on the basis for making the changes.

Attendees will gain 8.0 Florida approved continuing education hours for this program

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 Monday, Dec. 3rd, 2012

- SEA Member \$ 175 X _____ = \$ _____
- Non Member \$ 205 X _____ = \$ _____

Late Registration: December 4th– December 11th, 2012

- SEA Member \$ 205 X _____ = \$ _____
- Non Member \$ 245 X _____ = \$ _____

Registration includes breakfast, snacks and lunch (all day beverage station)

*TO PAY BY CREDIT CARD www.seaoal.com



To join SEAoAL

SEAoAL Membership Registration

- Professional \$ 85 X _____ = \$ _____
 - Associate \$ 40 X _____ = \$ _____
 - Student \$ 15 X _____ = \$ _____
 - 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

Email registrations to:
rhea@karmamanagementinc.com
Rhea Williams
Executive Director, SEAoAL

**HOTELS NEAR CAHABA
PUMP STATION**
Hampton Inn 3400 Colonade Pkwy 35243
Hilton Perimeter 8 Perimeter Park S. 35243
Druiry Inn 3510 Grandview Pkwy 35243

SEMINAR LOCATION
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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