



# SEAoAL 5th Annual State Conference & Expo

## Safe Room Design, Tornado Design, & Flood Loads

### THURSDAY, AUGUST 27, 2015

**TOTAL OF 7 PDHS (APPROVED IN AL & FL)**

8:00 a.m.— 8:30 a.m.	Registration & Morning Expo
8:30 a.m.— 9:45 a.m.	Bill Coulbourne, Safe Room Design
9:45 a.m.— 10:15a.m.	Break & Technology Expo
10:15 a.m.— 11:45 a.m.	Bill Coulbourne, Tornado Design Examples
11:45 a.m.—12:00 p.m.	SEAoAL Business Meeting & Scholarship Awards
12:00 p.m.— 1:00p.m.	Buffet Lunch & Technology Expo
1:00p.m.— 2:00p.m.	Mike Jackson, Case Study
2:00p.m.— 2:30p.m.	Break & Technology Expo
2:30p.m.— 3:45 p.m.	Bill Coulbourne, Flood Loads Using ASCE 7 & ASCE 24
3:45p.m.— 4:00 p.m.	Break & Technology Expo
4:00p.m.— 5:00 p.m.	Bill Coulbourne, Flood Loads Using ASCE 7 & ASCE 24

### **Safe Room Design**

This session will explore the current ICC 500 Standard design methodology and how proposed ASCE changes for 2016 might affect the design methods and results. The design methods will be illustrated with examples of wood, masonry and concrete safe rooms. The ICC 500 coverage of tornado-generated debris and missiles will be discussed, given there are no current numerical methods to determine damage or failure caused by these high speed missiles.

### **Tornado Design Examples**

This seminar will explore the current ICC 500 Standard design methodology and how proposed ASCE changes for 2016 might affect the design methods and results. The design methods will be illustrated with examples of masonry and concrete designs for safe rooms as well as improved building performance for lower wind speed tornadoes.

### **Flood Loads**

Using ASCE 7 and ASCE 24 to Determine Flood Loads—This seminar will cover the flood loads that must be considered when designing buildings in flood plains. The flood loads will be those currently covered in ASCE 7, and it will discuss how to use ASCE 24 in flood plain design. The flood load design information will be used to develop example foundation designs adequate to resist flood loads.

**Seminar Instructor—William Coulbourne, P.E., SECB**, has a BS in Civil Engineering from Virginia Tech and a Masters in Structural Engineering from the University of Virginia. He is a national expert in wind and flood mitigation and has been involved in FEMA Mitigation Assessment Teams for over 15 years. Having been involved in every major hurricane and flood disaster since 1995, Bill has investigated failures and mitigation design techniques for thousands of buildings, including residential structures, schools used as shelters, hospitals, and other critical facilities.

**Mike Jackson** is a Senior Vice President and A/E Specialist for one of the largest professional liability insurance agencies in the Southeast, Crow Friedman Group. He has been serving as a Risk Manager for over 20 years and has over two hundred clients, most of which are Architects and Engineers. Mike has graduated from countless professional liability courses and continues to reinforce his knowledge by attending professional liability conferences & workshops that focus on claims management, client selection, project selection and contract negotiations. He has been instrumental in reviewing and revising, state and local municipal contracts. He reviews more than one hundred design professional related contracts per year and has had a tremendous amount of success in negotiating contracts with owners.

# 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 Thursday, August 21, 2015**

- SEA Member      \$ 195 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Non Member      \$ 235 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Exhibitor      \$ 130 X \_\_\_\_\_ = \$ \_\_\_\_\_



## **Late Registration: August 21 - August 27, 2015**

- SEA Member      \$ 205 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Non Member      \$ 250 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Exhibitor      \$ 155 X \_\_\_\_\_ = \$ \_\_\_\_\_

Registration includes breakfast, lunch, snacks, coffee bar and expo hall.

## **To join SEAoAL**

### SEAoAL Membership Registration

- Professional      \$ 85 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Associate      \$ 40 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Student      \$ 15 X \_\_\_\_\_ = \$ \_\_\_\_\_
- Affiliate      \$150 X \_\_\_\_\_ = \$ \_\_\_\_\_

TOTAL: \$ \_\_\_\_\_

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](mailto:rhea@karmamanagementinc.com)

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](mailto:rhea@karmamanagementinc.com)

**Rhea Williams**  
Executive Director, SEAoAL

### **Birmingham Hotels**

#### **Aloft Hotel**

1309 19th St. South 35209  
205-874-8055

#### **EMBASSY SUITES**

2300 WOODCREST PL.  
HOMWOOD, AL 35209  
844-726-7564

### **SEMINAR LOCATION**

ROSEWOOD HALL  
2850 19TH ST. S.  
Homewood, AL 35209  
205-414-3950