



## Design, Construction, and Enforcement of FEMA Free-of-Obstruction, Site Development, and Breakaway Wall Requirements in V Zones – 2009 Changes

### COURSE DESCRIPTION:

Technical guidance related to the design and construction of breakaway walls and requirements for areas below and around elevated structures to meet FEMA's "Free-of-Obstruction" requirements has been modified significantly over the past year. FEMA Technical Bulletins *Design and Construction Guidance for Breakaway Walls Below Elevated Buildings Located in Coastal High Hazard Areas in accordance with the National Flood Insurance Program (TB 9-08)* and *Free-of-Obstruction Requirements for Buildings Located in Coastal High Hazard Areas in accordance with the National Flood Insurance Program (TB 5-08)*, both released by FEMA in November 2008, have been completely rewritten to more clearly explain related FEMA regulations and modern building and residential code provisions. Changes to these Technical Bulletins are based on lessons learned from hurricane damage over the past 10 years and conformance with evolving building and residential codes used in hurricane zones. This short course has been specifically designed for structural engineers, civil engineers, architects, builders, plan reviewers, and code enforcement officers to make all parties aware of significant changes for elements below the first elevated floor in V zones. Detailed design, construction, and enforcement example problems make this course critical for those involved in coastal construction. A special section on *performance based design* of breakaway walls highlights this new design approach that governs the design of atypical walls and construction in high wind zones.

**Space is limited. Please register early.**

### WHAT OTHERS ARE SAYING:

"Dr. Mays' experience and research in practical structural design and code related issues are invaluable and help ensure that our graduates are performing at the highest level. I strongly recommend his professional development courses to any practicing engineer looking to gain advanced knowledge in structural design." – Dennis J. Fallon, Ph.D., P.E., The Citadel, Dean of Engineering

"We have been extremely fortunate to secure the services of Dr. Timothy W. Mays to assist us in our Structural Section at Davis & Floyd, Inc. Dr. Mays has extensive knowledge of building code related issues and uses his expertise to efficiently and effectively solve practical yet complicated structural engineering problems." – John Orvin, P.E., Senior Structural Engineer

### WHAT DO ATTENDEES RECEIVE?

- 3 Professional Development Hours  
or 3 Continuing Education Hours
- Binder of Complete Course Notes and Example Problems Worked During the Course
- Copies of TB 9-08 and TB 5-08
- Breakfast

### SCHEDULE:

|               |                                  |
|---------------|----------------------------------|
| 7:30 – 8:00   | Registration                     |
| 8:00 – 9:00   | Free-of-Obstruction Requirements |
| 9:15 – 10:15  | Breakaway Walls Part I           |
| 10:30 – 11:30 | Breakaway Walls Part II          |

### COURSE INSTRUCTOR:

**Timothy Wayne Mays, Ph.D., P.E.** is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays is the Executive Director of the Structural Engineers Association of South Carolina and the Structural Engineers Association of North Carolina. Additionally, he serves as Chairman of the Structural Technical Group for ASCE SC Section, Ocean and Marine Engineering Division Chairman for ASEE National, and NCSEA Publications Committee Chairman. He has received two national teaching awards (ASCE and NSPE) and both national (NSF) and regional awards for outstanding research (ASEE). He is a prolific speaker who sits on several code writing committees and his areas of expertise are code applications, coastal engineering, structural design, seismic design, steel connections, structural dynamics, and civil engineering aspects of antiterrorism. Dr. Mays is the lead author of FEMA Technical Bulletin TB 9-08 and a contributing author on TB 5-08.

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# Registration Form

### DATE AND LOCATION:

- January 5, 2009 – Myrtle Beach, SC  
Hampton Inn - Broadway @ the Beach  
1140 Celebrity Circle  
Myrtle Beach, SC 29577
- January 6, 2009 – Charleston, SC  
Hampton Inn & Suites  
1104 Isle of Palms Connector  
Mount Pleasant, SC 29464
- January 8, 2009 – St. Simons Is., GA  
Hampton Inn  
2204 Demere Road  
St. Simons Island, GA 31522
- January 9, 2009 – Bluffton, SC  
Hampton Inn & Suites  
29 William Pope Drive  
Bluffton, SC 29909

**To Register**, please complete the application below and fax it to SE/ES at (803) 753-9296 (or send via mail to the SE/ES address below). Confirmation packages will be delivered by E-mail. E-mail questions to SE/ES at the address listed at the bottom of this page.

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Daytime Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Amount Enclosed with Check: \_\_\_\_\_  
MC VISA  
Credit Card Number: \_\_\_\_\_  
Name on Card: \_\_\_\_\_  
Card Expiration Date: \_\_\_\_\_  
Signature: \_\_\_\_\_



All building officials and code enforcement officers can attend at a special price of \$90 per person. SC building officials and code enforcement officers must sign up through Jennie Meade of SC LLR.

### COST:

\$275 - if received more than one week prior to event  
\$325 - if received within one week of event

\$50 discount for each additional registration from the same company (e.g., 3 people from the same company pay 3 x \$275 - 2 x \$50 = \$725)

### OTHER SE/ES COURSES:

- SE Exam Preparation Course Parts I and II
- Practical Finite Element Analysis for Practicing Structural Engineers

**Structural Engineering  
and Education Solutions, LLC**  
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