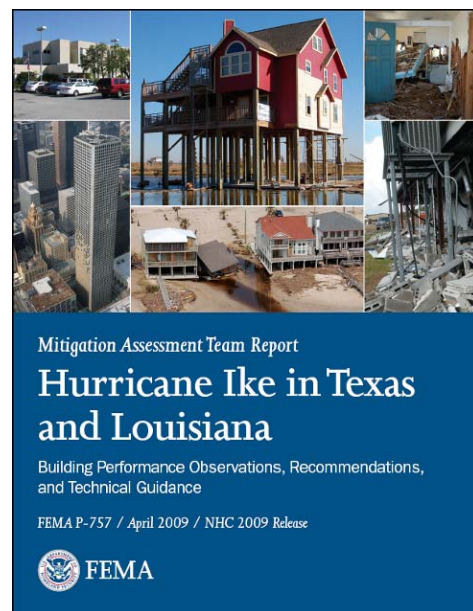
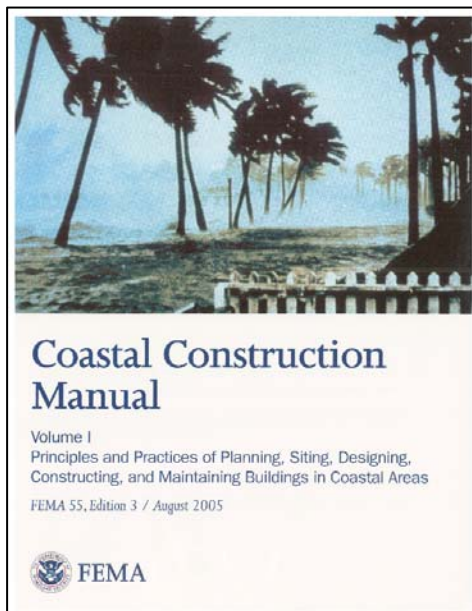




**1-Day Course  
For FEMA 55: Coastal Construction Manual  
(for Residential Construction)**

This is a 1-day course for the FEMA 55: *Coastal Construction Manual* (CCM) presented by FEMA Region VI. This field course will focus on addressing the needs of the engineers in Houston, in such cases as siting in V and A Zones, designing for flood and wind loads, as well as construction and maintenance issues. The goal is to provide guidance and assistance to design professionals on specific coastal construction issues to reduce future damage to residential buildings in coastal areas, incorporating lessons learned and best practices resulting from the Hurricane Ike Mitigation Assessment. The course will be taught by Chris Jones, PE (Christopher P. Jones) and Scott Tezak, PE (URS Corporation). Both of the instructors were involved in the development of FEMA 55 and taught the original 5-day FEMA 55 instructional course at FEMA's Emergency Management Institute in Emmitsburg, MD. In addition, Mr. Jones was a key investigator and author for the FEMA P-757 *Hurricane Ike Mitigation Assessment Team (MAT) Report*.



- DATE:** Thursday, April 22, 2010  
Register by Monday, April 19, 2010
- LOCATION:** **United Way Houston**  
50 Waugh Drive  
Houston, TX 77007  
(713) 685-2300
- CREDITS:** 8 PDHs will be awarded
- AGENDA:** 8:00 am – 5:00 pm (lunch provided)
- COST:** \$90 ASCE Members  
\$100 Non-ASCE Members
- REGISTER:** Online at [www.ascehouston.org](http://www.ascehouston.org)  
Registration is limited. Last day to register is Monday April 19, 2010



**1-Day Course**  
**For FEMA 55: Coastal Construction Manual**  
**(for Residential Construction)**

FEMA 55 (originally published in 1985) was revised and released in the summer of 2000 and although it is an older publication the best-practices and lessons learned from the effects of many major storms are still important elements of designing and constructing resilient buildings in the coastal environment. Although FEMA 55 was last reprinted in 2005, FEMA is currently updating the publication to improve the courses based on the 2004-2009 hurricane seasons. This course has been updated to incorporate the new technical advisories, new hurricane recovery advisories, and updated technical bulletins prepared by FEMA over the past 5 years. This pilot 1-day field course, along with the current 2-day course, were developed for architects, engineers, and building officials to familiarize them with the contents of the new manual and provide the information they need to ensure that coastal residential buildings are properly sited, designed, and constructed. Participants will work a sample problem that helps them understand and quantify wind loads and flood loads (from identifying the parameters that create the loads to calculating resultant forces). Critical connections in the structural design process are discussed. A review of best-practices for maintenance and selection of building materials completes the design process covered in the class.

The CCM defines a comprehensive approach to the coastal construction process - from hazard identification, risk assessment, and load determination; through siting; to design, construction, and maintenance. A wealth of formulas, tables, and graphics will be provided to illustrate the concepts presented. This course will provide attendees with the *Hurricane Ike Mitigation Assessment Team (MAT) Report* (FEMA P-757, CD-ROM), the three-volume *FEMA 55 Coastal Construction Manual*, and the interactive FEMA 55 CD-ROM that navigates through a computerized version of the manual and assists with the design calculations in the manual.

**COURSE INSTRUCTORS:**

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**Chris Jones, PE**, Principal Coastal Engineer  
Christopher P. Jones, Durham, NC

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Mr. Jones has 32 years of experience as an engineer and manager, and is a Registered Professional Engineer in North Carolina, South Carolina, and Florida. He is a National Expert in coastal construction issues and floodplain management. Mr. Jones was a primary author for the FEMA 55 updates in 2000, and is again a primary author for the current update. He was also a key investigator and author for the post-disaster FEMA P-757 *Hurricane Ike MAT Report*. He has also served as an investigator and author for the MAT Reports for Hurricanes Opal, Fran, Ivan, and Katrina.

Mr. Jones was the Project Manager responsible for evaluating NFIP Building Standards for A Zones, V Zones, and Coastal A Zones. This was the first systematic examination of freeboard since 1980. This study resulted in an IRC code change to include freeboard in coastal residential buildings. He provides ongoing support for FEMA for the development and review of code change proposals, especially efforts to promote more sustainable construction in coastal areas. Mr. Jones also co-authored and is currently updating FEMA 499 *Home Builders Guide to Coastal Construction*, which is a series of 31 technical fact sheets providing recommendations aimed at improving the performance of buildings subject to flood and wind forces in coastal environments. He is currently the Chairman of the Committee who developed and will update ASCE-24 *Flood Resistant Design and Construction*.

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**Scott Tezak, PE, BCSP**, Project Manager, Structural Engineer  
URS Corporation, Boston, MA

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Mr. E. Scott Tezak has 18 years of experience as an engineer and manager, and is a Registered Professional Engineer in New Hampshire, Massachusetts, and Virginia. He has participated on engineering teams that design tornado and hurricane shelters, and design structural retrofits for buildings vulnerable to damage from natural and man-made hazards. His expertise includes building analysis of commercial and residential structures, design of tornado and hurricane shelters, and threat and vulnerability assessments for both man-made and natural hazards.

Mr. Tezak was the project manager for the FEMA 361 *Design and Construction Guidance for Community and Group Shelters* (2008). This manual provides guidance to design professional on the design and construction of tornado and hurricane shelters. He is also the Vice-Chairman of the International Code Council (ICC) committee IS-STM, responsible for the development of the first Storm Shelter Standard (ICC-500 *Standard for the Design and Construction of Storm Shelters*, 2008). This ICC standard outlines structural, non-structural, occupancy, and operational issues of hurricane and tornado shelters in both residential and commercial applications.

Major damage investigation project highlights include his work as the project team leader in the FEMA sponsored wind field investigations in the Gulf Coast for Hurricanes Katrina and Rita (2005). Mr. Tezak was the team leader for the FEMA Mitigation Assessment Team (MAT) that performed damage assessments after Hurricane Charley in Florida (2004) and also led building performance assessment teams (BPAT) and lead the preparation of FEMA reports for Hurricane Georges in 1998 in Puerto Rico and the Gulf Coast Region of the United States, and the May 3, 1999, Tornadoes in Oklahoma and Kansas. He has published and presented numerous papers on wind-resistant design and construction.