



www.nationalfloodworkshop.net

SHORT COURSES

Sunday, October 24, 2010 – 1PM to 5PM

Hotel ZaZa – Houston, Texas

Short Course Fee - \$75.00

Attendees will receive Continuing Education toward the Certified Floodplain Managers Certification, the Texas Professional Engineers License, and Professional Development Points for the American Meteorological Society Certified Broadcast Meteorologist and Certified Consulting Meteorologist certifications

To register, go to www.nationalfloodworkshop.net/register.html

1. An Introduction to Storm Surge, the NWS SLOSH Model and SLOSH Based Products

Jamie R. Rhome

Storm Surge Specialist/Team Lead

National Hurricane Center, Miami, FL

Since its birth, the United States has lost over 25,000 people to tropical cyclones, most of which were attributable to storm surge. Every decade from the 1890's through the 1960's had at least one storm in which surge took hundreds or thousands of lives. More recently, Hurricane Katrina killed an estimated 1500 persons. The need for highly accurate storm surge information and products aimed at significantly reducing loss of life and promoting optimally resilient coastal communities has never been greater. This session will focus on current National Weather Service tools and products and how to best use these products for sound decision-making.

Topics will include:

Introduction to Storm Surge

- Definition of storm surge/storm tide/total water
- Storm Surge Impacts
- Measuring storm surge
- Available observations, limitation, applications
- Vertical datums
- Factors impacting storm surge

Forecasting Storm Surge

- Introduction to SLOSH
- SLOSH storm surge products
- NHC storm surge operations

SLOSH Display Program

- Instruction on how to obtain and install the SLOSH Display Program (SDP)
- Demonstration of SDP capabilities



2. Floodplain Management Introduction for Community Officials, Engineers, Meteorologists, and Surveyors

John Grounds
Grounds Anderson LLC, Houston, TX

Community Officials, Engineers, Meteorologists, and Surveyors will gain an understanding of the National Flood Insurance Program and how it relates to protecting lives and property, development regulations, and mitigating impacts from a flood disaster.

Topics will include:

- Texas and Federal Laws and the NFIP
- Map Reading and Flood Insurance Studies
- Flood Damage Prevention Ordinance
- Variations and NFIP Requirements
- Community Assistance Visits (CAV's)
- No Adverse Impact
- Community Rating System (CRS)
- Elevation Certificates
- FEMA Map Amendments and Revisions
- Reasonably Safe from Flooding
- Substantial Improvements and Damages
- Flood Proofing and Flood Resistant Materials
- "No Rise" Certifications to comply with 44 CFR 60.3d

3. Hurricane Impacts for Inland Communities

Greg Shelton
West Gulf River Forecast Center, Ft. Worth, TX

The Hurricane Impacts for Inland Communities course is a half day course discussing the inland hazards from tropical systems, highlighting the inland flood threat. This course covers the environmental and physical factors that can lead to excessive inland rainfall from tropical systems. Knowledge of these factors can be utilized ahead of land falling tropical systems to prepare for potential significant flooding for inland communities. In addition, a review of the National Weather Service's (NWS) Advanced Hydrologic Prediction Service (AHPS) will be given. The NWS AHPS web portal hosts its vital river and flood forecast information, and can be used as a resource during the preparedness, response and recovery phases of a disaster. Instructors involved in this course would be from the National Weather Service and experience emergency managers. The course is aimed at the local inland emergency manager to build their capacity to prepare and respond to tropical system and their associated inland impacts.

