



# National HAZUS-MH User Conference

**August 5-7, 2008  
San Diego, CA**

All HAZUS Conference Events Will Occur at the Omni San Diego Hotel  
(The hotel is easily reached from the Convention Center by crossing Harbor Street and the Train and Trolley track)

## Agenda

### Tuesday, August 5

7:00 a.m. – 6:00 p.m.

Registration

1:00 p.m. – 1:30 p.m.

#### **Welcome and Opening Remarks**

**Michael Buckley**,  
Mitigation Directorate, FEMA

1:30 p.m. – 3:00 p.m.

#### **HAZUS-MH in 2008 and Beyond: Three Perspectives**

Moderator: **Tom Durham**, PBS&J

Panelists:

**Phillip Schneider**, National Institute of Building Sciences (NIBS)

**Kevin Mickey**, Polis Center

**Ray Lenaburg**, FEMA Region IX

*The year 2008 marks an important crossroads in the development and use of HAZUS-MH. New technology – including the Comprehensive Data Management System (CDMS) and web-based portals – has been rolled out in 2008. New approaches to training and outreach are being offered to an expanding audience. And HAZUS-MH is playing a more prominent role in analysis support for federal and state mitigation programs, including Risk MAP. This session will bring together three leaders in the development and use of HAZUS-MH to share their perspectives and vision of the future of HAZUS-MH.*

3:00 p.m. – 3:15 p.m.

Break

3:15 p.m. – 4:15 p.m.

#### **Shake Map and HAZUS-MH: Two Innovative Applications**

Moderator: **Tom Durham**, PBS&J

Panelists:

**Doug Bausch**, FEMA Region VIII

**Charles Huyck**, ImageCat

*ShakeMap data, made available online through USGS, is being used with HAZUS in California, Utah and Washington. Doug Bausch will present the methodology and outputs from two FEMA demonstration projects in Utah and Washington that use ShakeMaps and HAZUS-MH for earthquake risk assessments and disaster response. Charles Huyck will present the findings of a project to link HAZUS-MH damage functions with ShakeMap for real-time online building damage and casualty estimation.*

#### **HAZUS-MH Hurricane Model: New Developments and Applications**

Moderator: **Vanessa Glynn-Linaris**,  
FEMA Region III

Panelists:

**Frank Lavelle**, Applied Research Associates

**Stacy Robinson**, PBS&J

*The HAZUS-MH MR3 hurricane model has new features and capabilities that will enhance hurricane risk assessment, mitigation planning, and post-event exposure assessments. As the model continues to mature, new applications are being implemented. This session will highlight the current and planned capabilities of the hurricane model, and unique applications of the model for statewide risk assessment and mitigation planning.*

5:00 p.m.

Join your colleagues for light refreshments and a cash bar!  
Reception sponsored by the National Institute of Building Sciences.

## **Wednesday, August 6**

7:00 a.m. – 5:00 p.m.

Registration

7:00 a.m. – 8:30 a.m.

Coffee break sponsored by Science Applications International Corporation (SAIC)

8:30 a.m. – 9:45 a.m.

### ***Innovative Applications of HAZUS-MH in California***

Moderator: **Liz Wojdak**, Southern California HUG

Panelists:

**Hope Seligson**, MMI Engineering

**Ray Lenaburg**, FEMA Region IX

**Raymond Cheung**, Orange County Sheriff's Department

*This session will highlight the use of HAZUS-MH for three innovative initiatives underway in California that address the earthquake risk: FEMA's Essential Facility Risk Assessment Pilot Projects, Use of HAZUS-MH for Hospital Safety Assessments, and local government support from California OES in the use of HAZUS-MH for earthquake risk assessments. These initiatives include the use of the Advanced Engineering Building Module (AEBM) in HAZUS-MH to assess the vulnerability of hospitals and other essential facilities in high risk areas of California.*

### ***HAZUS-MH Comprehensive Data Management System (CDMS) and Web-Portals: The Technology and Implementation Strategies***

Moderator: **Philip Schneider**, National Institute of Building Sciences

Panelists:

**Rod Erickson**, PBS&J

**Stuart Moffatt**, University of Utah

*The rollout of the CDMS provides HAZUS users with a streamlined tool for updating and managing statewide datasets in HAZUS-MH. Two states – Florida and South Carolina – are developing a web-based portal to facilitate access to CDMS and the use of statewide or county data to carry out risk assessments and mitigation planning. This session highlights the technology and use of CDMS and the web portals, including an overview of their application for inventory data development that is being undertaken by the US Geological Survey.*

*Guidance will be given on replication of the web-portal technology in other interested states. This session will also showcase a web application that was developed at the University of Utah as part of the Disaster Resistant University project.*

9:45 a.m. – 10:00 a.m.

Break

10:00 a.m. – 11:00 a.m.

### ***HAZUS-MH Users Groups: New Directions***

Moderator: **Jamie Caplan**, Jamie Caplan Consulting

Panelists:

**Rick Burgess**, Florida HUG

**Liz Wojdak**, SoCAL

**Ed Leachman**, Arkansas Tech University

*HAZUS User Groups (HUGs) are public-private partnerships that collaborate on HAZUS-MH use for the benefit of all involved. Over 20 HUGs exist throughout the United States. In this past year, several new HUGs have formed and a new HUG website has started. The focus of this session is the HAZUS Higher Education Resources Clearinghouse, the Florida HUG and its CDMS Web-Portal Project, and the SoCalHUG's development. This is an important session for those interested in HAZUS-MH collaboration through HAZUS User Groups.*

### **Use of HAZUS-MH for Scenario Development and Exercises**

Moderator: **Brian Shumon**, FEMA Region II

Panelists:

**Tom Durham**, PBS&J

**Nicholas Delmedico**, FEMA Region X

*In recent years, HAZUS-MH has become a valuable tool for scenario development and exercises of all categories. In this session, panelists will highlight the use of HAZUS-MH for planning, training and exercises for catastrophic earthquakes and hurricanes, and for major floods. HAZUS-MH is also being used for the popular course at the Emergency Management Institute (EMI) – Integrated Emergency Management Course, which will be covered during this session.*

11:00 a.m. – 12:15 p.m.

### **Use of HAZUS-MH for Flood Analysis and FEMA’s Risk MAP Strategy**

Moderator: **Vince Brown**, FEMA HQ

Panelists:

**David Montague**, ABS Consulting

**Kevin Mickey**, The Polis Center (IN)

**Jesse Rozelle**, FEMA Region VIII

*The improvements in the HAZUS-MH MR3 Flood Model coincide with new flood hazard analysis strategies that will identify flood hazards, weave them into watershed-based risk assessments and into State and local hazard mitigation planning efforts. Panelists in this session will focus on new developments in the Flood Model, and how they have been used in state and regional flood hazard mitigation planning.*

### **The Use of HAZUS-MH for Managing Hurricane Disaster Operations**

Moderator: **Joe Rachel**, FEMA Region IV

Panelists:

**Frank Lavelle**, Applied Research Associates (ARA)

**Tom Durham**, PBS&J

*HAZUS-MH has become an important tool in hurricane risk assessment and response operations, at the federal and state level. This session will address three interrelated dimensions of effective hurricane response using HAZUS-MH: 1) understanding the model and associated uncertainties; 2) preparation and use of HAZUS-MH outputs or “templates” for assessment and response; and 3) integration of HAZUS-MH into a suite of tools to be used for geospatial preparedness and response.*

1:30 p.m. – 3:00 p.m.

### **International Applications of HAZUS-MH**

Moderator: **Doug Bausch**, FEMA Region VIII

*Global interest in HAZUS-MH continues to grow. This roundtable session will provide a forum for discussion on the adaptation of the HAZUS-MH technology to national initiatives from beyond the U.S. This is an opportunity for networking on the international level, and for colleagues in the hazards community to interact with the HAZUS model developers and practitioners from the U.S.*

3:00 p.m. – 5:00 p.m.

### **HAZUS-MH 101: A Workshop**

Workshop presenter: **Kevin Mickey**, The Polis Center

*This workshop will explore the capabilities that HAZUS-MH provides for estimating losses that might result from floods, earthquakes, or hurricane winds. Numerous demonstrations of HAZUS-MH tools and output will be offered during the session. All demonstrations will be conducted using actual data from locations around the United States. This workshop is designed for a non-technical audience and will be of particular interest to those individuals who are interested in learning about how HAZUS-MH can be used to support planning and mitigation activities. It is assumed that participants in this workshop will have had little or no exposure to HAZUS-MH prior to attending.*

## Thursday, August 7

7:00 a.m. – Noon

Registration

7:00 a.m. – 8:30 a.m.

Coffee break sponsored by URS

8:30 a.m. – 9:30 a.m.

### **Using HAZUS-MH for State and Local Flood Loss Reduction Strategies**

Moderator: **Doug Bausch**, FEMA Region VIII

Panelists:

**Shelby Hudson**, AMEC

**Shanna Michael**, Watershed Concepts

*This session will feature two innovative applications of HAZUS-MH to support flood risk analysis: 1) Use of HAZUS-MH data to fill gaps in availability of Q3 and digital DFIRM to provide a consistent flood boundary datasets (Watershed Concepts) and 2) Statewide application of HAZUS to study county flood losses for the state of Mississippi.*

### **Non-Traditional Applications of HAZUS-MH**

Moderator: **Rod Erickson**, PBS&J

Panelists:

**Bill Bohn**, Tetra Tech

**Kevin Mickey**, The Polis Center

**Tom Alexander**, Small Business Administration

*HAZUS-MH has become an important tool in support of Federal agency missions. In this session, panelists will highlight the role of HAZUS-MH in carrying out focused studies for the Small Business Administration, U.S. Geological Survey, and US Agency for International Development. Presentations will address the project methodologies, the specific outputs from HAZUS-MH, and plans for continued use of software tool for future studies in support of the agency missions.*

9:30 a.m. – 10:30 a.m.

### **Technical Roundtable with Model Developers**

Moderator: **Philip Schneider**, National Institute of Building Sciences

*This session is an opportunity for HAZUS-MH users to pose questions to the model developers, and provide valuable input on user experience with each of the models. Also, SAIC and PBS&J will be demonstrating the use of HAZUS-MH on SAIC's Geospatial Enterprise Appliance as a concept for disseminating data and leveraging HAZUS output and enabling users in field or deployed environments.*

10:30 a.m. – 11:30 a.m.

### **General Session and Award Presentations**

Speakers: **Eric Berman**, HAZUS Program Manager, FEMA

### **Conference Closing Ceremonies**

**Dr. Jack Dangermond**, President, ESRI (Invited)

11:30 a.m. – 1:00 p.m.

Luncheon sponsored by ABS Consulting and Tetra Tech, Inc.

1:00 p.m. – 3:00 p.m.

### **Workshop on Data Management for HAZUS-MH**

Workshop presenter: **Kevin Mickey**, The Polis Center

*This workshop will focus on the HAZUS-MH inventory. It is recommended for GIS analysts, database administrators, and others who will be responsible for migrating local data into the HAZUS-MH database structure. The focus of the workshop will be the use of the Comprehensive Data Management System (CDMS) and other tools developed by FEMA for HAZUS-MH users interested in improving the accuracy of hazard loss estimations by integrating local – non hazard related - data into the HAZUS-MH analysis process. The workshop will help participants by identifying those inventory elements that have the most impact on the estimation of losses for flood, earthquake, and hurricane events.*