

# 2007 National Earthquake Program Managers Meeting

April 24-26, 2007

Norma-Dan Motel  
Pigeon Forge, Tennessee

## **TABLE OF CONTENTS**

|                                     |         |
|-------------------------------------|---------|
| Welcome Letter                      | Page 3  |
| Acknowledgements                    | Page 4  |
| Meeting Schedule                    | Page 6  |
| 2007-2008 Conferences and Events    | Page 7  |
| Hotel and Local Information         | Page 8  |
| State & Territory Program Overviews | Page 9  |
| State Contact Information           | Page 20 |
| Regional Contact Information        | Page 28 |
| Speaker Biographies                 | Page 29 |
| Comments Form & Contact Info Update | Page 37 |

## **Welcome Earthquake Program Managers:**

On behalf of the meeting organizing committee, the Federal Emergency Management Agency, the Northeast States Emergency Consortium, Western States Seismic Policy Council, Cascadia Regional Earthquake Workgroup, and the Central United States Earthquake Consortium, we would like to welcome you to the 2007 National Earthquake Program Managers Meeting.

For the third year now we have come together to exchange ideas and learn from one another in an effort to build a stronger, more productive earthquake program at the state and local level.

Thankfully we have not experienced a significant seismic event in this country since the 1994 Northridge that caused 57 deaths and over 9000 injuries, in addition to over 44 billion dollars in damages. The October 2006 event that struck Hawaii and caused considerable damage and disruption, was a reminder of just how real the earthquake threat remains.

Unfortunately the earthquake program today finds itself in an ever changing emergency management environment. These changes, coupled with other issues such as budgetary concerns, the weight of additional duties as assigned, and competing program priorities can all have an effect on your efforts as earthquake program managers.

This meeting and future meetings are designed to build capacity within our programs before the next damaging seismic event occurs. The sharing of ideas, goals, and achievements, are key elements in this building process.

As earthquake program managers you play a pivotal role in fulfilling the goals of the National Earthquake Hazards Reduction Program. Your efforts ultimately can make the difference in how our communities handle the next significant earthquake.

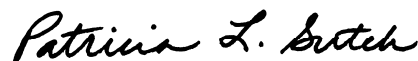
Although this meeting is designed to provide you with the knowledge, tools, and program guidance to help you make the most of your program, it ultimately requires a commitment from you. Your input and involvement in the development of future meetings, as well as the interaction between you and your counterparts, is essential.

Again, welcome and thank you for your participation.

Sincerely,



Jim Wilkinson  
Executive Director  
Central United States Earthquake Consortium



Patti Sutch  
Executive Director  
Western States Seismic Policy Council

## **ACKNOWLEDGEMENTS**

We would like to express our gratitude for the cooperation and hard work of the many individuals, organizations, and firms that helped bring this meeting together. Their time and effort is greatly appreciated. We would also like to thank the Department of Homeland Security's Federal Emergency Management Agency (FEMA) for their financial support, which made this meeting possible.

### **Agenda Committee**

Doug Bausch – Federal Emergency Management Agency  
Bob Carey – Utah Dept. of Public Safety  
Mary Beth Caruso – Federal Emergency Management Agency  
Jacqueline Heyliger – Virgin Islands Emergency Management  
Dave Jackson – Idaho Bureau of Homeland Security  
Jeanne Johnston – Hawaii State Civil Defense  
Veronica Pogue – Arkansas Department of Emergency Management  
Tiawana Ramsey – North Carolina Emergency Management  
Patti Sutch – Western States Seismic Policy Council  
Anita Vollmer – Federal Emergency Management Agency  
Cecil Whaley – Tennessee Emergency Management Agency  
Jim Wilkinson – Central US Earthquake Consortium

### **Contributing Organizations**

This meeting is sponsored in partnership with the Department of Homeland Security's Federal Emergency Management Agency and the National Earthquake Hazard Reduction Program supported Consortia.

#### **Central United States Earthquake Consortium (CUSEC)**

CUSEC is a partnership between the Federal Government and the States of Alabama, Arkansas, Illinois, Indiana, Kentucky, Mississippi, Missouri, and Tennessee, the states most affected by earthquakes in the New Madrid Seismic Zone. Ten adjacent states also participate as associates in CUSEC. Established in 1983 with FEMA funding, the mission of CUSEC is to reduce deaths, injuries, property damage, and economic losses resulting from earthquakes in the Central United States.



#### **Cascadia Region Earthquake Workgroup (CREW)**

CREW is a non-profit coalition of private and public representatives working together to increase the ability of Cascadia Region communities in the Pacific Northwest to reduce the effects of earthquake events. CREW, which was established in 1996 by the scientific community, promotes efforts to reduce the loss of life and property; conducts education to motivate key decision-makers to reduce risks associated with earthquakes; and fosters productive linkages among scientists, critical infrastructure providers, businesses, and governmental agencies to improve the viability of communities after earthquakes.



**National Earthquake Hazards Reduction Program (NEHRP)**

The National Earthquake Hazards Reduction Program (NEHRP) is the Federal Government's program to reduce the risks to life and property from earthquakes. The NEHRP agencies are FEMA, the National Institute of Standards and Technology (NIST), the lead agency; the National Science Foundation (NSF); and the United States Geological Survey (USGS).



**Northeast States Emergency Consortium (NESEC)**

NESEC develops, promotes, and coordinates natural disaster and emergency management activities throughout the Northeast. This includes natural hazard evaluation and assessment, public awareness and education programs, hazard mitigation, and information technology transfer. The States of Connecticut, Maine, Massachusetts, New Jersey, New Hampshire, New York, Rhode Island, and Vermont form the NESEC.



**Western States Seismic Policy Council (WSSPC)**

WSSPC is a regional earthquake consortium funded primarily by FEMA. WSSPC draws its membership from the emergency manager and geoscientist directors of 13 western states, 3 U.S. territories, a Canadian territory, and a Canadian province. The mission of the WSSPC is to help reduce future earthquake losses by providing a forum to advance earthquake programs throughout the Western Region and by developing and facilitating the implementation of seismic policies and programs through information exchange, research application, and education.



# MEETING SCHEDULE

## **Monday, April 23, 2007**

4:00 PM to 7:00 PM Early Check-In

5:00 PM to 7:00 PM Meet & Greet Social

## **Tuesday, April 24, 2007**

7:30 AM Check In (Continued)

8:00 AM Welcome and Opening Remarks

8:30 AM Participant Introductions

9:00 AM State Earthquake Program Best Practices

10:00 AM Break

10:30 AM State Earthquake Program Best Practices (Continued)

12:00 PM Lunch

1:30 PM FEMA Regional and Headquarters Earthquake Program Updates

3:00 PM NEHRP Agencies Panel

4:00 PM Program Perspectives – Discussions

5:00 PM Conclude Day 1

## **Wednesday, April 25, 2007**

8:00 AM East Tennessee Seismic Zone Overview

9:00 AM Pre-Disaster Mitigation Projects

10:00 AM Break

10:30 AM Kiholo Bay Earthquake

12:00 AM LUNCH

1:30 PM New Madrid Seismic Zone Catastrophic Response Planning

2:30 PM Break

3:00 PM CDC - Public Health Issues

3:30 PM Regional Breakout Sessions

5:00 PM Conclude Day Two

## **Thursday, April 26, 2007**

8:00 AM Regional Breakout Sessions continued

10:00 AM Break

10:15 AM Breakouts Continued

11:30 AM Closing Comments

11:45 AM 2008 Meeting Committee Selections

12:00 PM Conclude Meeting

## 2007-2008 CONFERENCES AND EVENTS

Don't miss out on the following upcoming earthquake related events:



The 2008 National Earthquake Conference is chaired by the four national earthquake and emergency consortia groups (NESEC, CUSEC, WSSPC, and CREW) funded by FEMA under the National Earthquake Program, the Earthquake Engineering Research Institute (EERI) and the Emergency Preparedness for Industry and Commerce Council (EPICC) of British Columbia Canada. These four consortia along with EERI and EPICC, united to organize a national conference, to address the urgent problem of earthquake risk reduction. The Conference is funded and supported by DHS/FEMA and USGS.

*\*\*Proposed Location for the 2008 National Earthquake Program Managers Meeting\*\**

### Other Meetings and Conferences

#### **CREW Spring Meeting**

May 2, 2007 - Portland, Oregon

Web Link: [www.crew.org/about/meetings.html](http://www.crew.org/about/meetings.html)

#### **Spills of National Significance (SONS07) Exercise**

June 19-21, 2007 – Throughout the Central United States

Web Link : [www.sons-program.org](http://www.sons-program.org)

#### **NEHRP Advisory Committee Meeting**

May 10-11, 2007 - Gaithersburg, Maryland

Web Link: [www.nehrp.gov/news/index.htm](http://www.nehrp.gov/news/index.htm)

#### **WSSPC Annual Conference**

September 30 - October 3, 2007 - Reno, Nevada

Web Link: [www.wsspc.org](http://www.wsspc.org)

*For more listings, please visit the following websites –*

Cascadia Regional Earthquake Working Group: [www.crew.org](http://www.crew.org)

Central US Earthquake Consortium: [www.cusec.org](http://www.cusec.org)

Earthquake Information Network: [www.eqnet.org](http://www.eqnet.org)

Natural Hazards Center, Boulder: [www.colorado.edu/hazards](http://www.colorado.edu/hazards)

National Earthquake Hazards Reduction Program: [www.nehrp.gov](http://www.nehrp.gov)

Northeastern States Emergency Consortium: [www.nesec.org](http://www.nesec.org)

Western States Seismic Policy Council: [www.wsspc.org](http://www.wsspc.org)

## HOTEL AND LOCAL INFORMATION

### Norma Dan Motel

3864 Parkway

Pigeon Forge, Tennessee 37863

Phone: 800-219-6809

<http://www.normadanmotel.com>

Located in the heart of Pigeon Forge, the Norma Dan Motel is within walking distance of several restaurants, attractions, and popular shopping destinations. The Norma Dan is only minutes away from the Great Smoky Mountains National Park, the Dollywood Theme Park, and several of the Southeast's most exciting and popular outlet malls. Additionally, AA affiliate of the Chicago Cubs, will be playing ball at the Smokies Baseball Stadium, located just north of Pigeon Forge and Sevierville.



15 minutes south of Pigeon Forge is Gatlinburg, Tennessee, which is known as the "Gateway to the Smokies". In addition to the attractions available in Pigeon Forge, Gatlinburg offers fine dining, shopping, a year round ski-lodge, interesting museums, and a popular indoor aquarium.

### Suggested Local Restaurants

The following restaurants are located in Pigeon Forge, Sevierville, or Gatlinburg. For more detailed information, please consult the hotel front desk.

Cracker Barrel

Sagebrush Steakhouse

Log Cabin Pancake House

Bennett's Pit B-B-Q

Alabama Grill

Magnolia Tea Room

Fridays

The Apple Barn

The Park Grill

Calhoun's Barbeque

Gondolier Italian Restaurant

Apple Wood Farmhouse Restaurant



## STATE & TERRITORY PROGRAM OVERVIEWS

### Alaska

*Program Manager – Ervin Petty*

Partnerships The State of Alaska's Division of Homeland Security and Emergency Management (DHS&EM) organized its mitigation, earthquake, tsunami, and preparedness programs under the Mitigation Section to ensure the public is educated about the interrelationship of these natural hazard threats. DHS&EM takes great pride in our partnerships with: the University of Alaska Fairbanks Geophysical Institute (UAF/GI), Alaska Department of Natural Resources Division of Geological and Geophysical Survey (DNR/DGGS), Alaska Earthquake Information Center (AEIC), Alaska Department of Transportation and Public Facilities (AKDOT&PF), West Coast / Alaska Tsunami Warning Center (WC/ATWC), National Weather Service (NWS), National Oceanographic and Atmospheric Administration's Pacific Marine Environmental Laboratory (NOAA/PMEL) and Tsunami Inundation Mapping Effort (TIME), Federal Emergency Management Agency (FEMA), the U.S. Department of Interior (DOI), and Alaska's local, tribal and borough governments. Very few projects would be accomplished without quality partnerships and willing participation.

Commission Involvement The Alaska Seismic Hazard Safety Commission is active in developing effective practices and policies for earthquake loss-reduction while pursuing accelerating implementation of these policies. The Governor appointed DHS&EM Earthquake Program Manager, Scott Simmons as one of eleven commission board members in October of 2006. The Commission members meet monthly to focus on prioritizing and identifying earthquake related hazard threats including: critical facilities' structural stability, earthquake insurance necessity and availability, approaches to incorporating seismic risk mitigation into future construction, changes to response and recovery practices to mitigate future seismic risk, hazard identification, and public education outreach initiatives.

Post-Disaster Damage Assessment (PDDA) DHS&EM aggressively supports and funds the statewide Post-Disaster Damage Assessment (PDDA) training program managed by the Municipality of Anchorage's (MOA) Building Safety Officer. The PDDA Coordinator conducts the modified ATC-20 courses to provide initial and recertification training for post earthquake damage assessment evaluators. These evaluator team members assess a building's structural integrity for safe occupancy following a catastrophic event. The PDDA Coordinator works with DHS&EM training and IT sections to develop a statewide training database and identification cards. The State currently has approximately 650 trained and certified damage assessors.

Quake Cottage Earthquake Simulator The Division's outreach tools, the "Quake Cottage" earthquake simulator and the "Earthquake Resistant Model Home" continue to generate requests supporting non-structural seismic hazard mitigation demonstrations. These tools provide audiences effective earthquake preparedness and mitigation lessons as well as build visual relationships about the effects of hazards affecting structures and contents.

Although the “Quake Cottage” activities are scaled back for 2007, the Division was able to deliver our preparedness message to over 2,500 people during 2006 at school events, the Nenana Fair, Kenai River Days Festival, and the Governors Picnic.

Preparedness DHS&EM provided funds for printing 2,000 copies each of the children’s books “Molly and the Earthquake” and “Heidi and the Tsunami”. High School Senior Ms. Hanna C. Watkins designed, wrote, and illustrated the books for Kindergarten through Forth Grade students. The books tell fictional stories of a family’s natural hazards experiences and give safety tips on what to do before, during, and after an event. These publications are distributed throughout the state at various outreach venues. DHS&EM is excited that we can add them to our outreach resources. The books can be downloaded at <http://www.borough.kenai.ak.us/emergency/books/watkins.htm> .

DHS&EM Staff participated in a UAF education program that will teach high school students basic GIS and hazard mapping. The program targets specific native communities having significant seismic and tsunami threats along the Aleutian Chain.

Improve techniques to reduce seismic vulnerability to facilities and systems Two real time earthquake-monitoring systems supplied by UAF/GI and USGS are used in the State Emergency Coordination Center (SECC). These systems provide immediate earthquake notification showing seismic station depictions of a quake and related scientific data. The systems graphically relate the earthquake data to adjacent communities, allowing the SECC to quickly contact communities and gather impact data for potential post disaster damage estimates.

The State of Alaska received two FEMA Pre-Disaster Mitigation-Competitive (PDM-C) grants for 2006. The Kodiak Island School will receive seismic retrofitting and 10 Anchorage Schools will receive automatic gas shut-off valves. The Kodiak project ranked number one in the nation from the FEMA review panel

Improve seismic hazard identification and risk assessment methods and their use The State is using VRiskMap® software to facilitate risk and vulnerability analysis from earthquakes and other natural hazards. The software allows Mitigation Staff to overlay hazard maps, delineate by degree of hazard, and run queries giving population and infrastructure-associated information to determine potential impact and estimated losses. Several of Alaska’s largest communities and boroughs have FEMA approved and community adopted Local All-Hazard Mitigation Plans fulfilling the Disaster Mitigation Act of 2000 criteria. These plans are essential for identifying the risks, vulnerabilities, and the economic impact to the State’s population and infrastructure from natural hazards like the State’s extensive earthquake hazard. These plans cover approximately 83% of the State’s population. Several of the remaining communities are developing Local Hazard Mitigation Plans to align their local hazard mitigation plans, hazard data, strategies, goals, and initiatives with the State Plan.

Mapping NOAA and the State of Alaska sponsored Tsunami Inundation Mapping projects for Homer and Seldovia. This project provides potential tsunami mapping

coverage to enable local community partners to tailor the information obtained from the inundation maps toward their emergency response and planning efforts. These maps will assist the communities with preparing for, and mitigating against, potential tsunamis. The Alaska Division of Geological and Geophysical Survey produce the final maps for planning and distribution by the local government and emergency management. UAF/GI is currently researching tsunami potential for the Cities of Seward, Sitka, and Valdez Alaska.

Warning Systems DHS&EM funded and coordinated efforts to install all hazard warning siren systems in Perryville and Chignik Bay partnering with NOAA and UAF/GI,. The communities successfully activated the systems for actual tsunami warnings in November 2006 and January 2007.

## **Arkansas**

*Program Manager – Veronica Villalobos Pogue*

- **Protecting America.org:** Sponsored a tour of six cities in five states surrounding the New Madrid Fault to raise public awareness on the importance of earthquake preparedness. July 17, 2006 in Little Rock, AR.
- **Statewide Preparedness Conference-** Third annual conference held Aug.7-10, the morning session on the 9<sup>th</sup> was dedicated to EQ history, Science (Dr. Haydar Al-Shukri) and preparedness planning (Veronica Villalobos-Pogue).
- **AEMA Conference-** Aug. 31 & Sept. 1 held a break out session each day on EQ preparedness /planning unveiling template for counties, Sister Co. Concept and awareness campaigns.
- **Crittenden Co. LEPC-** attended and presented, September 14, 2006
- **CUSEC State Geologists Meetings-** attended with AR State Geologic Survey.
- **CUSEC Earthquake Program Managers Meeting-** October 16-17, 2006 St. Louis, MO
- **State Bank Department-** Catastrophic Planning Conference in Jonesboro, Oct. 10, ADEM Director David Maxwell spoke
- **Delta Regional Authority New Madrid Earthquake Conference-** Nov. 2-3 in St. Louis, MO
- **Governor’s Earthquake Advisory Council Meetings (GEAC)** This past December (only time that elections are held) Held a meeting in Little Rock, Dec. 15, 2006.
- **2007 EQ Awareness week- Coordinated with other CUSEC States** Feb. 5-9:
  - Feb. 8 Disaster Preparedness Workshop for Small Business, ASU-SBDC in Jonesboro offered the workshop with UALR Training Specialist, Timothy Lee as the speaker.
  - Feb. 8 Scott Ausbrooks, Geologist with the AR Geological Commission, spoke at Cabot Middle School North on Earthquakes in Arkansas at 8:30, 9:30 and 10:30 a.m. to approx. 400 sixth graders.
  - Feb. 9 ATC-20 Post Earthquake Safety Evaluation of Buildings, to be held at the AR State University College of Engineering in Jonesboro with Arkansas Electric Cooperative Co. Principal Engineer, Steve Sharp instructing.
  - EQ School Drills coordinated with Crittenden Co. OEM:

- ♦ Marion School District:
  - Feb. 5 Marion Elementary, grades 2-3, at 8:30 a.m.
  - Feb. 7 Avondale Elementary, grades K-1, at 9:20 a.m. &
- ♦ Marion Junior High, grades 8-9, at 10:30 a.m.
  - West Memphis School District:
  - Feb. 8 Maddox Elementary School, grades 5-6, at 1:30 p.m.
- **SONS 07 Exercise Participation-** AR is participating; held an Earthquake TTX in March leading up to Junes exercise. Participants include AR NG, ASP, AHTD, Corp of Engineers, and several Counties in Eastern AR to name a few.
- **Annual Review of the Earthquake Annex in the State EOP**
- **ESF Focused-** Working Groups focused on Mass Care, Transportation, Evacuation, Resources, Oil & Haz Mat, and Public Safety & Security, etc..
- **Enhancing Local EOP Efforts-** Providing the counties a template that has been reviewed, revised and released to the counties. Compiled a 10-point checklist to get them started.
- **ATC-20 Post Earthquake Safety Evaluation of Buildings Class:** with CUSEC and the AR Electric Coop.; January in Fayetteville with Arkansas Electric Cooperative Co. Principal Engineer, Steve Sharp instructing.
- **Catastrophic Planning Initiative-** attended workshop in Branson, MO. IEM planner, Edwin Lyons.
- **Rapid Visual Screening of Critical Facilities in Eastern Arkansas-** ADEM applied for funding under the PDM (Pre-Disaster Mitigation) Grant Program to Update the State Hazard Mitigation Plan. This information will be used in the risk assessment and mitigation strategies sections of the plan.

#### **Upcoming Endeavors:**

- **Committee for the 2008 National State Earthquake Program Managers Meeting** -Seattle, WA
- **EQ Awareness DVD-** (Legislative directive) working with the AR Geological Commission and AETN (public education television network) currently have an animation, draft outline, script and graphics. **(Lack of Funding)**

#### **California**

*Program Manager – Jim Goltz*

In April 2006, the state commemorated the 100<sup>th</sup> anniversary of the catastrophic San Francisco earthquake with a major conference convened jointly by the Governor's Office of Emergency Services, the Earthquake Engineering Research Institute and the Seismological Society of America. The conference celebrated the work accomplished over the last century in improving seismic safety in California while taking a sober look at the possible challenges faced by very large earthquakes in the state's future.

OES continues to promote earthquake readiness by supporting the California Integrated Seismic Network (CISN) and the new rapidly available earthquake information products derived from CISN. The close cooperation between the engineering, scientific and

emergency management communities has produced a state-of-the-art earthquake notification system called the CISN Display which provides emergency managers with earthquake magnitudes, locations and mapped distribution of ground motion (ShakeMaps) in a timeframe of a few seconds to a few minutes. OES has taken the lead in shaping these new earthquake information tools for use by local governments and operators of critical infrastructure and promoting their implementation through workshops, lectures at CSTI and one-on-one demonstrations.

The technological advances that have made rapid earthquake information available have also greatly increased our ability to provide vivid and detailed earthquake scenarios for use in both local and large-scale regional exercises. The combined use of ShakeMap and HAZUS, a loss estimation software developed by FEMA, has facilitated the development of multi-faceted exercise scenarios that help emergency managers of the public and private sectors refine response and recovery plans. OES has been active in developing and promoting the use of these scenarios by local jurisdictions, schools, utilities, hospitals and other organizations with critical response roles.

In addition to leadership in planning, training and technical assistance for large earthquakes in California, OES has also made significant strides in improving state and local tsunami response capabilities through continuation of the hazard mapping program, local planning assistance and conducting workshops to provide needed expertise in developing or revising local plans. During 2006, the University of Southern California's Tsunami Research Center, working with the OES Earthquake and Tsunami Program and the OES GIS unit, completed tsunami inundation maps for all California counties. These maps are of critical importance because they become the basis for planning evacuation routes and hazard mitigation within identified tsunami inundation zones.

The California State Warning Center has developed and tested new tsunami warning notification technologies that have greatly improved the state's ability to communicate tsunami warning messages to local government responders. Tsunami warning exercises conducted during 2006 have demonstrated the effectiveness of these technologies and increased confidence that a warning issued by the West Coast and Alaska Tsunami Warning Center will be effectively communicated to local officials who are responsible for activating local tsunami response plans and alerting California coastal residents that a dangerous wave may have been formed.

OES provides leadership in tsunami planning at the national level by active participation in the National Tsunami Hazard Mitigation Program. During 2006, representatives of the Earthquake and Tsunami Program provided valuable input to NOAA officials regarding warning message content, tsunami resistant construction in coastal areas and improving the effectiveness of tsunami exercises. OES is working with NOAA's National Weather Service to conduct a thorough test of the warning system in March 2007 involving multiple states and warning messages that activate the Emergency Alert System. OES also convenes and chairs the State Tsunami Steering Committee that includes all Operational Areas in coastal California and provides a forum for discussion of new

technologies, policy changes in the national program and funding opportunities for local planning and mitigation programs.

## **Hawaii**

*Program Manager – Jeanne Johnston*

The Hawaii State Earthquake Advisory Committee (HSEAC) consists of 17 volunteer members representing a cross section of experts from various governmental agencies and the private sector to include structural engineers and geologists. The following are major accomplishments of the committee and its members in 2006:

1. Supported adoption of a Statewide Building Code based on the International Building Code model. Also supported were code upgrades for the City and County of Honolulu (UBC to IBC 2003) and Hawaii County (UBC to IBC 2006).
2. Provided ATC 20 Post-Earthquake Safety Evaluation of Buildings Training on Oahu and Hawaii Islands just months before the October 15, 2006 earthquakes, illustrating the need to continually update preparedness to respond to these unpredictable events.
3. HSEAC members and associates were intimately involved in the response, recovery and reconnaissance after the earthquakes. Dr. Paul Okubo at Hawaiian Volcano Observatory (HVO) and Dr. Gerard Fryer at Pacific Tsunami Warning Center (PTWC) were directly involved in monitoring and disseminating seismic and tsunami information. Troy Kindred, Administrator of Hawaii County Civil Defense Agency, and Roy Takemoto, Executive Assistant - Office of the Mayor, were involved in Hawaii County response efforts.

Structural engineers, Gary Chock and Dr. Ian Robertson and Earthquake Program Manager – State Civil Defense, Jeanne Branch Johnston, assisted emergency managers with response planning. They coordinated with Stan Goosby, Head Scientist, at Pacific Disaster Center (PDC) to develop representative HAZUS runs of the event.

As one of the few structural engineers residing in Hawaii County, Afaq Sarwar, quickly volunteered to inspect homes throughout the affected areas on Hawaii Island.

Dr. Peter Nicholson and Dr. Ian Robertson spent two days surveying geotechnical and structural effects and produced the October 26th report. The report is available at: [www.eng.hawaii.edu/CE/reports/Kiholo\\_Bay\\_Report.pdf](http://www.eng.hawaii.edu/CE/reports/Kiholo_Bay_Report.pdf)

Dr. Brennon Morioka inspected bridges and roadways in his official capacity with Hawaii State Department of Transportation. Gary Chock was instrumental in organizing over 20 volunteer members of the Structural Engineers Association of Hawaii (SEAOH) who provided assistance with ATC 20 inspections and tagging of damaged homes. Gary Chock also edited an Earthquake Engineering Research Institute (EERI) report available on the EERI website.

## **Idaho**

*Program Manager – Dave Jackson*

The Idaho Bureau of Homeland Security partnered with the Idaho Geologic Survey to conduct the annual Earth Science Teachers Field Workshop. The workshop was located in northern Idaho near the community of Hope, Idaho on the shore of Lake Pend Oreille. The workshop provides earth science teachers with local geologic and natural hazards information to include in their classroom lessons. The workshop provided information about the geology of the Precambrian Belt Group, evidence of the Missoula Floods during the last Ice Age, geomorphology of floods and flooding issues, and regional seismic awareness for teachers.

The seismic awareness component of the workshop included a discussion of faults in the area and the hazards associated with seismic activity along those faults. The teachers also received training in Rapid Visual Screening to identify vulnerable structures in their community. Local earthquake history was discussed using the “Shaken in Sandpoint” collection of newspaper articles that chronicle local earthquake events. The workshop participants also participated in a Rapid Visual Screening exercise in the community of Sandpoint, Idaho. The drop, cover and hold response was also discussed and reaffirmed as the appropriate action for students and the general public to take during earthquake events. Seismic safety information pertinent to schools was also provided so that teachers could point out hazards around the schools for potential mitigation actions.

The Idaho Geologic Survey and Dr. James Zollweg from Boise State University continued to monitor the earthquake swarm in the southern end of Long Valley near the community of Cascade, Idaho. The magnitude of the earthquakes was significantly higher than the last swarm of activity in 1977 with a few of the quakes registering with a magnitude of 4.0. The monitoring and data analysis of this event are on-going.

Idaho also submitted applications to complete two non-structural mitigation projects under the Hazard Mitigation Grant Program for DR-1592-ID. The projects will provide base isolation for computer servers and radio equipment at the Idaho Emergency Operations Center and for the computer servers and data robots for the Idaho State Controllers Office. Idaho recently received the approval notification from FEMA Region X, and work to complete the projects will begin shortly.

Seismic awareness activities continue in partnership with the Citizen Corps Program and county emergency management organizations. Awareness on seismic hazard issues continues to increase with the completion of local hazard mitigation plans. The Bureau of Homeland Security is beginning its planning efforts for a seismic awareness campaign to commemorate the 25<sup>th</sup> anniversary of the Borah Peak Earthquake in October of 2008.

## **Kentucky**

*Program Manager – Lori King*

The Kentucky Earthquake Program supported numerous earthquake exercises during 2006. Assistance was provided to the Kentucky National Guard in the design of a communications and logistics exercise by the Kentucky National Guard in late February.

This exercise was based on a moderate quake affecting the far western region of Kentucky. Simultaneously, an earthquake exercise was designed for the Kentucky Office of Mine Safety and Licensing. This quake, from the Wabash Valley Fault Zone was conducted to determine how an earthquake might affect the rescue effort to trapped miners. This exercise was conducted on March 1, 2006.

Work on developing and conducting a June earthquake exercise for KyEM Area 1, the eight most western counties, started in March. This functional exercise, developed jointly by KyEM and the Kentucky Office of Homeland Security, simulated the impact of a 6.5 magnitude quake in the Charleston, MO. The HAZUS model on this quake shows significant damage and was used as the basis for all of the exercise messaging.

Additional earthquake exercise activities included the planning for the SONS 07 exercise. KyEM and the Kentucky Office of Homeland Security have developed an intensive three day exercise, which coincides with the federal SONS exercise that focuses on earthquake emergency response. Three different regions of Kentucky totaling 24 counties and the state EOC will be playing emergency response, resource management, and mass care. These exercises will occur June 19-21, 2007.

A considerable amount of effort was spent on recruiting those experts who will be needed for structural analysis following a quake. Presentations were given to a variety of engineering, code enforcement, and construction groups in an attempt to recruit volunteers.

Work to make the 2007 Earthquake Awareness Week a success sent into full operations in October of 2006. It was scheduled in Henderson, Kentucky for January 29-February 2. A Donations Management course was scheduled for the first two days of the week. On Wednesday an Elected Officials Briefing was planned with emphasis on discussing the emergency response in the first hours following the quake and the Long Term Recovery process. Later on Wednesday a Town Hall Meeting was scheduled to include an explanation of the risk of the area for a damaging quake, how residents should prepare, and an explanation of earthquake insurance.

Several thousand FEMA earthquake publications were requested and distributed to Kentucky's western most counties prior to Earthquake Awareness Week. Every school in KyEM Areas 1, 2 and 3 received a variety of materials for usage in classrooms for usage throughout the year.

## **Missouri**

*Program Manager – Steve Besemer*

The Earthquake Program Manager's position in the Missouri State Emergency Management Agency is a part of the agency's Operations Branch. Assigned duties include providing direction and support to the MO. Seismic Safety Commission and the MO. SAVE (Structural Assessment & Visual Evaluation) Coalition, as well as directing earthquake outreach activities across the state.



One important accomplishment for our earthquake program during the past year was completion of Annex Y for our State Emergency Operations Plan. This annex was developed to outline in great detail how the state would try to respond following a catastrophic earthquake which would likely affect much of the state. Dozens of representatives from state and local governments, as well as from the private sector and volunteer organizations, came together to offer information and ideas on this project. Our planners have now developed a template of this annex which local emergency management officials can now use for their planning purposes.

The Seismic Safety Commission completed work on updating its 1997 Strategic Plan for Earthquake Safety in Missouri. We are now in the process of making the final review of the document and hope to have it released later in 2007. Commissioners were again involved in Earthquake Awareness Week activities in February, which included an event for children at the Saint Louis Science Center and a two-day course for teachers which SEMA and the Commission sponsored with the MO Department of Natural Resources. More than 30 teachers attended the class, which included several presentations and field trips to earthquake-related sites.

SEMA continues to work with the SAVE Coalition to recruit new members and conduct training for all of the volunteers involved with the program. Two of the largest classes we've ever held for SAVE came within the last few months, so we are encouraged by the continuing interest in SAVE from architects, building inspectors and engineers, among others.

The Program Manager also is part of the 12-member Technical Working Group for the St. Louis Area Earthquake Hazards Mapping Project and hopes to also be involved in the development of a New Madrid Earthquake Scenario, along with the New Madrid chapter of EERI and other parties. The position has also been involved in planning meetings for our statewide earthquake exercise in June. A number of state and local jurisdictions, along with the private and volunteer sectors, are planning to participate in the exercise, which will be held June 19-21, 2007.

## **New York**

### *Program Manager – Dan O'Brien*

The New York State Comprehensive Emergency Management Plan (CEMP) identifies earthquakes as a significant risk to the state. Earthquakes are ranked 7<sup>th</sup> by the Statewide Hazard Identification and Rating System, behind flooding, drought, landslide, coastal erosion, winter storms, and hurricanes.

Significant effort has been taken in area of risk assessment. Most notably, the State Geological Survey has characterized the ground shaking amplification characteristics of the state's surficial geology based on seismic shear-wave velocity tests which were conducted in several regions of the state. A statewide digital 1:250,000 scale map delineating the distribution of soils based on the NEHRP soil classifications has been developed and is available for use in HAZUS modeling.

A major loss estimation study of the New York City Metropolitan area was conducted by the New York City Area Consortium for Earthquake Loss Mitigation – NYCEM ([www.nycem.org](http://www.nycem.org)). The study highlights that a moderate earthquake centered in this most densely populated region of the county, characterized by a high percentage of unreinforced masonry, will result in large losses. This HAZUS based study is significant in that: 1) few loss estimation studies of the region had previously been conducted; 2) the study involved assemblage of soil information for the tri-state region; 3) the development of a HAZUS building stock inventory for New York City based on 900,000 individual building records.

The NYCEM study helped create awareness of the region's earthquake risk leading in part to a functional earthquake exercise involving over 100 personnel of the Fire Department of New York (FDNY) and New York City Police Department (NYPD) in January 2006. Data generated in the NYCEM study and HAZUS modeling was used for the exercise earthquake scenario.

A significant earthquake mitigative action was taken by New York State in 2003 in the adoption of a building code based on the Universal Building Code, including its seismic provisions for new construction. Unfortunately, from an earthquake mitigation standpoint, the State is currently poised to adopt a code for existing construction based on the International Existing Building Code but removes seismic provisions in all but a limited number of circumstances.

The routine re-distribution of Lamont-Doherty's LCSN Earthquake Alerts by the State Emergency Coordination Center to its emergency management e-mail distribution groups have shown to be an effective way to generate earthquake awareness.

## **Oregon**

*Program Manager – Jay Wilson*

Oregon's statewide seismic risk management strategy, which is to strengthen older high risk schools and emergency facilities, is moving forward. This approach will help safeguard communities at a basic level. The state mandated this level of safety in 2001 (ORS 455.400) as an unfunded mandate to communities. In 2005, the state legislature refocused the state's commitment to seismic safety by authorizing \$1.2 billion in state funds to help communities accomplish necessary seismic upgrades. Much publicity on this strategy has been shared through newsletters of stakeholder organizations, including the American Geological Institute, Association of Engineering Geologists, and the Earthquake Engineering Research Institute. DOGAMI is currently completing a statewide risk assessment of eligible buildings and will report their findings to the legislature by July 2007.

DOGAMI staff member, Yumei Wang, was recently appointed to the newly formed NEHRP Advisory Committee.

Oregon is developing an enhanced rapid visual screening (E-RVS) methodology to improve risk management strategies, which is supported by the Oregon University

System. Oregon's experience with RVS led FEMA and Applied Technology Council to solicit input to the ATC 67 RVS Project on mobile RVS and possible improvements to the standard RVS method.

Attached is a copy of the Oregon Governor's Proclamation of April as "Earthquake and Tsunami Awareness Month" and this year the Oregon Dept. of Education took the lead to promote earthquake and tsunami drills in schools and prepare its stakeholders for the upcoming release of the Seismic Needs Assessment Report using the FEMA RVS method to review K-12 public schools.

The Oregon Seismic Safety Policy Advisory Commission (OSSPAC) is currently receiving testimony from Oregon utilities providers on their earthquake emergency planning efforts, especially for catastrophic scale events.

#### *Oregon Tsunami Program*

DOGAMI has initiated a cooperative project with Canon Beach, Oregon to map paleotsunami deposits preserved in local estuaries to field test tsunami run-up models for inundation maps for the City. DOGAMI is working with the Oregon Health Science University to improve tsunami inundation modeling and mapping using Cannon Beach as the state of the art example for future methods.

OEM and DOGAMI collaborated on many public meetings, workshops and training sessions dealing with tsunami hazard assessment, warning protocols and public education. Both agencies provided an invited program overview to US Senator Gordon Smith's staff.

With coordination from OEM, DOGAMI is managing the contract for the City of Seaside's Congressional supplement to reduce tsunami risk through a public warning system and hiring an additional tsunami staff member.

DOGAMI participated in the NOAA strategic planning workshop at Oregon State University (OSU) July 25-26, 2006 and contributed a written summary of research priorities in tsunami assessment for the National Tsunami Hazard Program. DOGAMI and OEM attended the July 27-28 OSU workshop aimed at setting priorities for the new tsunami wave tank facility at OSU.

OEM worked with Oregon Natural Hazards Workgroup, USGS, and with funding from CREW, held planning forum with Cannon Beach for post-disaster recovery from Cascadia event.

OEM, with participation from DOGAMI, is facilitating uniform tsunami warning signal work team, based on requirements from SB 557 from 2005 Oregon Legislature.

OEM is continuing to conduct interviews with eye witnesses and collect historical photographs and maps for 1964 Alaskan tsunami along Oregon coast. Video and computer editing equipment and software has been purchased and utilized.

## **South Carolina**

### *Program Manager – Tammie Dreher*

- South Carolina's Earthquake Awareness Week was held November 6-11, 2006. In support of the week, a Governor's Proclamation was declared, news releases were issued, earthquake literature was mailed to county emergency managers and schools, and a Drop, Cover, and Hold drill was held with schools. A new Earthquake Preparedness for Schools web page was added during Earthquake Awareness Week targeted specifically at teachers to prepare for Earthquake Awareness Week.
- The SC Earthquake Plan, now in its third year was revised 2006. The Plan is an appendix to the SC Emergency Operations Plan and contains concepts and operational procedures unique to earthquake planning and response.
- The Earthquake Program Coordinator prepared and facilitated a tabletop exercise with an earthquake scenario. Approximately 200 persons participated in the Tabletop. A full-scale two day earthquake exercise will be held in June 6-7, 2007 to further test and refine the Earthquake Plan.
- SC Earthquake Brochure for schools was unveiled this year. The brochure was distributed through the local emergency managers to public and private schools to use during Earthquake Awareness Week.
- Awarded a new South Carolina Earthquake Education and Preparedness Program (SCEEP) to the College of Charleston. A center of excellence for the state of South Carolina on earthquakes, earthquake education and earthquake preparedness, the new program is located in the College of Charleston's Department of Geology and Environmental Geosciences. In addition to developing and maintaining outreach and education programs, the center will host workshops for a variety of groups from hazards specialists to educators.
- SC Emergency Management Division continues to work with the State's 46 counties to update and maintain the Hazards United States (HAZUS) infrastructure database for medical facilities, airports, communication facilities, power plants, emergency facilities (police, fire, emergency management, emergency medical services (EMS)), schools, potable water, and waste water.
- Adoption of the IBC w/seismic provisions.
- Conducted an ACT 20 and FEMA 154 Course.

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*Senior Science Advisor for Earthquake & Geologic Hazards  
U.S. Geological Survey*

David Applegate is the senior science advisor for earthquake and geologic hazards at the U.S. Geological Survey. He is responsible for the Earthquake Hazards and Global Seismographic Network programs that are the USGS contribution to the National Earthquake Hazards Reduction Program (NEHRP). He also chairs the National Science and Technology Council's interagency Subcommittee on Disaster Reduction. Prior to joining USGS, he worked at the American Geological Institute as director of government affairs and editor of *Geotimes*, AGI's newsmagazine of the earth sciences. Before that, Applegate served with the U.S. Senate Committee on Energy and Natural Resources as the American Geophysical Union's Congressional Science Fellow and as a professional staff member. Born and raised in Chambersburg, Pennsylvania, Applegate holds a B.S. in geology from Yale University and a Ph.D., also in geology, from the Massachusetts Institute of Technology.

### **James F. Bassham**

*Director  
Tennessee Emergency Management Agency*

James F. Bassham was appointed as Director of TEMA by Governor Phil Bredesen in August of 2003. He previously served in state government as the Assistant Adjutant General of the Tennessee Air National Guard with the rank of Major General and then as Budget Officer for the Military Department of Tennessee. Since his appointment as Director, TEMA has sought national accreditation in the Emergency Management Accreditation Program (only 11 states are fully or conditionally accredited), and Tennessee has been nationally recognized by the Federal Emergency Management Agency as one of only 10 states capable of implementing its plans in a catastrophic emergency. Jim also serves as the Chairman of the Board of Directors for the Central United States Earthquake Consortium.

He was commander of the National Guard Air Base in Memphis for 2 years from 1993 to 1995 after having served as deputy or vice commander and commander of a series of units in Memphis over a period of 11 years. After almost 40 years of service, he retired in 2002 from the military with the Legion of Merit and a host of other medals and recognitions.

Jim was born and raised in Arkansas and received a Bachelor of Science in Business Administration and Accounting from the University of Arkansas. He and his wife Judy live in Franklin, Tennessee. He has two daughters and three grandchildren.

**James E. Beavers**

*Director and Research Professor  
Construction Industry Research and Policy Center  
University of Tennessee*

James Beavers joined the Construction Industry Research and Policy Center in 2004. He is a research professor of Civil Engineering at the University of Tennessee and does consulting work. From 1998 through 2003, Dr. Beavers was deputy director of the Mid-America Earthquake Center at the University of Illinois. He is a former vice president of MS Technology, Inc., Natural and Technological Hazards Services Division (1994-1997), former director of the Center for Natural Phenomena Engineering, Martin Marietta Energy Systems, Inc. and Oak Ridge National Laboratory (1990-1994), and from 1972 through 1990 he held numerous senior positions with Martin Marietta Energy Systems, Inc. and its predecessors at the Department of Energy in Oak Ridge, Tennessee.

Dr. Beavers is the editor of the American Society of Civil Engineers Natural Hazards Review Journal, a post he has held since 1998, and he was formerly the editor of the Earthquake Spectra, the professional journal of the Earthquake Engineering Research Institute in Oakland, California . He has organized a number of national earthquake conferences and is the author of numerous publications on seismic effects and earthquake engineering standards.

**Doug Bausch**

*Earthquake Program Manager  
Federal Emergency Management Agency*

Mr. Bausch is the FEMA Region VIII Earthquake Program Manager and Physical Scientist in Denver, Colorado. He assists States and communities in developing sound risk assessments to support all hazard mitigation planning, including the incorporation of FEMA's HAZUS Loss Estimation and Map Modernization programs. Before starting with FEMA in May of 2001, he was both a Research Associate at Northern Arizona University and a Consulting Engineering Geologist with a southern California firm for 11 years. His research and consulting efforts primarily included preparing General Plans for local governments that addressed seismic safety, land use, and code adoption issues to reduce the impacts of natural disasters and improve community sustainability in a disaster. Recently, these efforts have benefited from FEMA's HAZUS (HAZards U.S.) loss-estimation software. HAZUS is used to evaluate and prioritize mitigation measures, to evaluate risk and support code-adoption. Doug is an experienced HAZUS user and is one of only a few certified instructors nation-wide.

**Rex Coble**

*Manager for Disaster Response  
Innovative Emergency Management*

Rex Coble has more than 28 years of emergency management planning and response experience in a variety of disciplines, including law enforcement, fire, emergency medical services, and public health. His experience spans local and state-level emergency management for all types of hazards, including those due to weapons of mass destruction. He served for seven years as the Deputy Director and Interim Acting Director of Illinois

Emergency Management Agency (EMA), and served for four years as an Emergency Officer for the Illinois Department of Public Health (IDPH). Mr. Coble has managed eight Presidentially-declared disasters, nine Gubernatorially-declared disasters, and countless other emergencies in the State of Illinois.

As IEM's Manager for Disaster Response, Mr. Coble coordinates and manages projects for state, county, and local emergency management agencies, as well as FEMA, the Department of Health and Human Services, and the Centers for Disease Control and Prevention (CDC). Mr. Coble was one of the principle consultants and project manager on the FEMA CSEPP Programmatic Guidance review and revision, which involved ensuring that the new guidance was NIMS compliant and that the NRP had been integrated. Mr. Coble has worked on-site at FEMA HQ since August 2005, where he supported the agency in its response to Hurricanes Katrina and Rita. He is currently the IEM Project Manager for the NMSZ Catastrophic Planning Initiative.

Mr. Coble managed a DHS/G&T project for Cook County (IL), which delivered a Chief Elected Officials Urban Area Workshop that provided an overview of NIMS and the overall responsibilities of elected officials. Mr. Coble was principal consultant to the State of Indiana in developing a three-year domestic preparedness strategy that addressed State responses to acts of terrorism involving chemical and biological agents, as well as radiological, nuclear, and explosive devices. Additionally, Mr. Coble served as Assistant Project Manager for IEM's Southeast Louisiana Catastrophic Hurricane Planning project.

**Robert D. Hatcher, Jr.**

Distinguished Scientist and Professor

*University of Tennessee*

Dr. Hatcher's background consists of degrees from Vanderbilt University (B.A., 1961, geology, chemistry, minor mathematics; M.S., 1962, geology, minor chemistry) and the University of Tennessee-Knoxville (Ph.D., 1965, structural geology, minor chemistry). He has been a scientist and professor of geology with the University of Tennessee at Knoxville since 2001. Research projects include in the western Blue Ridge, Norway, and Valley and Ridge-Plateau, and others in the eastern Blue Ridge and Inner Piedmont, along with research on the geologic controls of hydrocarbons in the southern part of the Appalachian basin, have begun since coming to UTK.

Recipient of numerous honors and awards, Dr. Hatcher has served on a number of Geological Society of America committees, on the GSA Council (1980-1982), and as GSA Vice President and President (1992, 1993). From 1981-1988, I served with William A. Thomas as Editor of the Geological Society of America Bulletin. Dr. Hatcher has also served on the U.S. Geological Survey Federal Advisory Committee on the National Cooperative Geologic Mapping Program from 1996 until present. Additionally, Dr. Hatcher currently serves as Chair of the Geological Society of America Foundation Board of Trustees, Chair of the GSA Honorary Fellows Committee, and Co-Chair of the American Association of Petroleum Geologists History of Petroleum Geologists Committee.

**Jack Hayes***Director**National Earthquake Hazards Reduction Program*

Jack Hayes joined the Building and Fire Research Laboratory in early 2006. He is the Director of the National Earthquake Hazards Reduction Program (NEHRP). NEHRP is the federal government's program to reduce risks to life and property from earthquakes. NEHRP consists of four federal agencies: the Federal Emergency Management Agency (FEMA) of the Department of Homeland Security, the National Science Foundation (NSF), the United States Geological Survey (USGS) and NIST. As director, Hayes provides overall program management, coordination and technical leadership; strengthens program effectiveness by facilitating implementation of earthquake risk mitigation measures; and builds and maintains effective partnerships with NEHRP program agencies and stakeholders in industry, academia and government. Specific duties include strategic and management plan development and implementation; program evaluation and performance measurement; budget review, guidance and coordination; preparation and submission of coordinated annual program budgets; submission of an annual report to Congress on consolidated program priorities, budget and results, including an assessment of program effectiveness; information dissemination on earthquake hazards and loss-reduction measures; and related interagency programs and policies.

Hayes joins NIST after serving since 1988 as leader of seismic and structural engineering research at the U.S. Army Engineer Research and Development Center's (ERDC) Construction Engineering Research Laboratory (CERL) in Champaign, IL. At CERL, Hayes was actively involved in earthquake engineering research for the U.S. Army Corps of Engineers. He also collaborated extensively with the earthquake engineering program at NSF, including work within the Mid-America Earthquake Center, and has been directly involved with a number of significant earthquake mitigation projects for FEMA. Working with key personnel at USGS, Hayes helped develop the seismic provisions for the American Society of Civil Engineers' ASCE 7-05 standard and a new Department of Defense tri-services seismic design manual.

Prior to his tenure at CERL, Hayes was Research Civil Engineer and Senior Scientist at the Engineering Research Division of the U.S. Air Force Engineering and Services Laboratory (1984-1988); Structural Engineer at the U.S. Air Force Armament Division (1982-1984); Assistant Professor of Civil Engineering at the Virginia Military Institute (1980-1982); Civil Engineer and NATO Infrastructure Staff Officer at the Headquarters U.S. Air Forces in Europe (1977-1980); and Civil Engineer Officer at Tinker AFB, OK (1975-1977). Hayes is also a retired Lieutenant Colonel in the U.S. Air Force Reserves and is a registered Professional Engineer in Florida and Virginia.



**Jeanne Branch Johnston**

*Earthquake & Tsunami Program Planner  
State of Hawaii – Civil Defense Division*

Ms. Johnston has been employed as Earthquake and Tsunami Program Planner with the State of Hawaii since August 2005. She is responsible for earthquake, tsunami and lava flow program planning. Ms. Johnston serves as coordinator of the Hawaii State Earthquake Advisory Committee (HSEAC), a committee of expert advisors to the State of Hawaii on earthquake related issues. She also coordinates the working groups of the Tsunami Technical Review Committee (TTRC). The working groups, utilizing the National Tsunami Hazard Mitigation (NTHMP) guidelines, advise the State of Hawaii on tsunami issues.

Ms. Johnston, a native of Hilo, Hawaii and a tsunami survivor, founded the Pacific Tsunami Museum, [www.tsunami.org](http://www.tsunami.org), in Hilo, Hawaii in 1993. She has conducted over 200 interviews with tsunami survivors which are archived at the Pacific Tsunami Museum. She is the author of *Tsunamis in Maui County: Oral Histories* (April 2003), and *Personal Accounts From Survivors of the Hilo Tsunamis of 1946 and 1960: Toward a Disaster Communication Model* (May 2003). Ms. Johnston traveled to the State of Kerala, India to conduct tsunami survivor interviews in December 2006. These interviews, along with other data, will be used to create a tsunami museum in the State of Kerala to promote tsunami safety education and remember those who lost their lives in the 2004 event. The Kerala Tsunami Museum is anticipated to open sometime in late 2007. She has a Bachelors degree in Business Management and in 2003 received a Masters degree in Communications with a Certification in Disaster Management from the University of Hawaii.

**Mark Keim, M.D.**

*Associate Director  
Terrorism & Emergency Response  
Centers for Disease Control and Prevention*

Mark Keim, M.D. is the NCEH/ATSDR Associate Director for the Terrorism Preparedness and Emergency Response at the Centers for Disease Control & Prevention (CDC) in Atlanta. Dr. Keim earned a B.S. in physiology at Southern Illinois University in 1987 and an M.D. from Southern Illinois University School of Medicine in Springfield, IL in 1991. He completed residency training in emergency medicine at Albany Medical College at Albany, NY in 1995 and a two-year fellowship in disaster medicine at Emory University School of Medicine in Atlanta in 1997. Dr. Keim's current academic titles include a clinical associate professorship at the Tulane University School of Public Health and Tropical Medicine and a guest faculty appointment at Johns Hopkins University School of Medicine, Department of Emergency Medicine.

Dr. Keim has provided consultation for the management of numerous domestic and international disasters, involving the health of literally millions of people. Dr. Keim's experience in counter-terrorism includes the 1996 bombing of Olympic Centennial Park, as well as over 100 other bioterrorism threats. He was selected by expert appointment by the Office of the U.S. Surgeon General to design and implement U.S.-assisted response

and recovery efforts after the 1998 Al Qaida bombings of US embassies in Kenya and Tanzania. He also served as Incident Manager of the CDC Emergency Operations Center during the 2001 Anthrax and World Trade Center emergencies as well as Hurricanes Katrina and Rita. He has led U.S. inter-agency teams in response to natural and technological disasters in the U.S., Pacific, Caribbean, Asia, and South America as well as the first US governmental contingent to Indonesia after the Indian Ocean tsunami. He now serves as the Chief health Officer for all CDC responses involving natural and technological disasters

Dr. Keim is the author of numerous scientific presentations and publications involving terrorism, environmental health, emergency medicine, toxicology, global health and disaster management. He is a peer review consultant for scientific journals to include the Annals of Emergency Medicine, the Journal of Anesthesiology, Lancet, the American Journal of Public Health, eMedicine Online and a member of the editorial board for the Journal of Prehospital and Disaster Medicine as well as the American Journal of Disaster Medicine. He has also served as section editor and chapter author for several major textbooks in the field of disaster medicine. His press interviews have appeared on network television programs including CNN, PBS and the CBS Evening News as well as newspapers such as USA Today, Chicago Tribune, the Washington Post and the Los Angeles Times.

**Edward M. Laatsch**

*Chief, Building Science Section*

*Federal Emergency Management Agency*

Edward Laatsch is Chief, Building Science Section of the Risk Reduction Branch within FEMA's Mitigation Division. This section is responsible for several programs and initiatives including: The National Earthquake Hazards Reduction Program (NEHRP); disaster-resistant building codes and standards activities; technical and engineering support for earthquake, hurricane, flood, physical security and other natural and man-made hazards; and post-disaster forensic engineering studies through the Mitigation Assessment Team (MAT) program. Other activities within this section include the development of technical guidance documents related to hazard mitigation and special projects related to all-hazards risks.

Previously, Laatsch was Chief of the Multi-hazard Engineering Services Section at FEMA. Prior to that, he was a Research Administrator and Loss Control Superintendent for State Farm Insurance. Before that he spent 7 years with the National Association of Home Builders and the NAHB Research Center. Previous to that, Laatsch worked as a consulting engineer including 5 years with a specialty munitions facilities design firm as a Vice President and blast-effects designer. In all, Ed Laatsch has over twenty-five years of experience in the areas of engineering design, housing research, project management, and construction supervision. In addition, Laatsch has written numerous papers and publications on residential housing technology and loss control issues over the last 10 years.

Laatsch holds an M.S. in Architecture from Virginia Polytechnic Institute and a B.S. in Civil Engineering from the University of Michigan, as well as being a licensed Professional Engineer in the State of Virginia.

**Michael S. Pawlowski**

*Chief, Incident Response Section*

*Federal Emergency Management Agency*

Mr. Pawlowski is the Chief, Incident Response Section, Response Division, Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), responsible for Catastrophic Disaster Response Planning, Interagency Planning, and the National Response Coordination Center (NRCC), a component of the DHS National Operations Center. He has previously served as policy advisor, and Director of the FEMA Emergency Support Team (EST) for coordinating Federal response for the following Presidential Declared Disasters/Emergencies:

- Oklahoma City Bombing (April 1995)
- Hurricane Luis (September 1995)
- Hurricane Marilyn (October 1995)
- Hurricane Fran (September 1996)
- NATO 50th Anniversary
- Hurricane Floyd (September 1999)
- Typhoon Chata'an, Guam and Federated States of Micronesia (2002)
- Texas Flooding (2002)
- Hurricane Isabel (September 2003)

Mr. Pawlowski has also served as Team leader for development and implementation of the National Capability Assessment for Readiness (CAR) process to establish a comprehensive baseline of our nation's emergency management system (1996-1998). This led to the publication of a report to Congress, "A Report to the United States Committee on Appropriations, State Capability for Readiness, Under the Federal/State Performance Agreement," December, 1997. This was the first ever report which identified the nationwide capability of States to mitigate against, prepare for, respond to, and recover from disasters. Served as Executive Officer in support of the Federal Coordinating Officer, National Emergency Response Team, National Capital Region (ERT-N NCR), to coordinate planning and development of a Federal response capability to support State and local government for response to catastrophic emergencies in the National Capital Region (NCR).

He also served four years in support of the White House Military Office Executive Support and Disaster Preparedness Emergency Management Program and was a former faculty member at George Washington University, Institute for Crisis, Disaster and Risk Management, Washington, D.C., and Indiana University, Bloomington, Indiana.

**Cecil Whaley**

*Director, Natural Hazards*

*Tennessee Emergency Management Agency*

Mr. Whaley has served the public and Tennessee State Government for nearly twenty years. He serves at Present as Planning Administrator and Director of Natural Hazards for the Tennessee Emergency Management Agency (TEMA). Cecil also serves as Supervisor of Planning for Domestic Preparedness and Weapons of Mass Destruction. His division provides long-range strategic planning supervision to the Tennessee Office of Homeland Security. Cecil has served with TEMA since 1988.

Cecil's previous positions with TEMA include: Director, Earthquake Preparedness Program; Director of the Disaster Preparedness Program; Director of the FEMA Accredited Urban, Search and Rescue Program, which provided the Memphis-Area "Tennessee Task Force One" Team to the Pentagon Crash site on Sept. 11, 2001. Cecil served as Assistant to the Commissioner of Employment Security, and Director of Public Relations 1975 to 1980

**Jim Wilkinson**

*Executive Director*

*Central United States Earthquake Consortium*

Mr. Wilkinson is a graduate of the University of Southern Mississippi, with a degree in Urban & Regional Planning. Mr. Wilkinson has worked in the field of emergency management for the past sixteen years. Three of those years were with the Mississippi Emergency Management Agency, where he served as a Population Protection Planner, and, later, as the state's Earthquake Program Manager. In 1994, Mr. Wilkinson accepted a position with the Central United States Earthquake Consortium as Mitigation Specialist. In this position, Mr. Wilkinson worked closely with the seventeen states, (eight Charter, nine Associate) that make up CUSEC, in helping to develop a strong earthquake program that addresses the regional impact of earthquakes in the central U.S. emphasizing an all hazards approach.

In December 1999, Jim was appointed to his current position as Executive Director. In this position he is responsible for accomplishing the CUSEC programs and activities that are defined by four areas:

- 1) To raise the level of public awareness of the earthquake hazard in the central U.S.;
- 2) To promote the adoption of mitigation programs, tools, and techniques to reduce the vulnerability of the Central U.S. to earthquakes and other hazards;
- 3) To foster multi-state planning for response and recovery to a damaging earthquake;
- 4) To promote the application of research and lessons learned to improve the level of preparedness.



**2007 National Earthquake Program Managers Meeting - Updates & Comments**

*If you need to update your state contact information, please do so in the following spaces*

Name \_\_\_\_\_

Position \_\_\_\_\_

Agency \_\_\_\_\_

Address 1 \_\_\_\_\_

Address 2 \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

Agency Webpage \_\_\_\_\_

If you have any comments or suggestions that will help make future meetings more successful, please use the space below or attach an extra sheet of paper if necessary -

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