



CUSEC NEWS

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From the Executive Director

Let me begin by welcoming you to a new outreach component, the CUSEC NEWS. The purpose of the newsletter is to promote in a timely manner, the efforts of CUSEC and its partners in addressing the earthquake hazard and its associated risks. The timing of this newsletter couldn't be better, given the escalating attention to New Madrid since Katrina. Organizations, agencies, businesses of all sizes, as well as elected officials from the local, state, and federal levels are all focused on the earthquake issue. The newsletter will highlight activities of these and other groups throughout the region and focus on specific topics of interest. We have built the newsletter around the four CUSEC goal areas which are mitigation, public outreach and education, response and recovery and research. Within each of these program areas we will highlight activities throughout the region. The idea is to provide a platform for information sharing that ultimately promotes the goals of the National Earthquake Hazard Reduction Program (NEHRP).

For convenience, the newsletter will be available in both printed and electronic version, with the electronic version available on the CUSEC web site. A calendar of events will highlight earthquake meetings and events in an effort to further promote the collaboration throughout the region. I hope that you find this newsletter meaningful and timely. If you have any questions or have an idea for a story, please contact the CUSEC Public Outreach Coordinator and newsletter editor, Alisa Nave, at: anave@cusec.org. Regards,

Jim Wilkinson
Executive Director
CUSEC

FEMA & CUSEC Launch New Madrid Catastrophic Planning Initiative



De.Wikipedia.Org Photo

The Central United States Earthquake Consortium (CUSEC) is planning to meet with several agencies including the Federal Emergency Management Agency (FEMA), businesses and volunteer organizations in Branson, Missouri in March to discuss planning and preparation for future catastrophic events in the New Madrid Seismic Zone (NMSZ). FEMA is funding this effort because damaging earthquakes in the NMSZ in the Central United States have been selected as one of several potentially catastrophic events that, if they occurred, could have a major impact on the United States.

(continued on page 3)

INSIDE THIS ISSUE

CUSEC Board Chairman William Burke.....	2
EQ Program Manager Keith Chambers.....	3
Around The Region.....	5
Earthquake Awareness Week.....	8
Geo-Caching: CUSEC Style.....	10
Around the Nation.....	10
Calendar & Training Opportunities.....	11

William Burke

CUSEC Board Chairman and State Director of the Illinois Emergency Management Agency



William Burke was appointed Director of the Illinois Emergency Management Agency (IEMA) on March 19, 2003. IEMA is the lead state agency during disasters and works to prepare citizens for all types of emergencies through planning, training and mitigation. Director Burke oversees the agency's 260 employees and the agency's more than three dozen programs.

Director Burke serves as chairman of the Board of Directors for the Central United States Earthquake Consortium (CUSEC) and is active on the Illinois Terrorism Task Force (ITTF). He was the chair of the Homeland Security Committee's subcommittee on bioterrorism for the National Emergency Management Association (NEMA). He also served as Region V Vice President of NEMA. He is currently Treasurer and a member of the Board of Directors. Director Burke brought to IEMA three decades of executive experience in state, local and federal government, the military and the private sector.

Prior to being named IEMA director, Burke was Director of Federal Services for Teng and Associates, a private sector architectural firm specializing in the design and construction of communications facilities. On the federal level, Burke was a Presidential appointee as regional administrator for the U.S. General Services Administration (GSA) Region V office in Chicago. While with the GSA, Burke chaired the Federal Executive Board in 1995 and the Combined Federal Campaign in 1996. Burke also managed the first congressional campaign for Rep. Bobby Rush and served as a special assistant to the congressman for economic development.

At the municipal level, Burke served as head of Public Affairs for the City of Chicago's aviation department and as director of Chicago's Veterans Affairs.

A decorated Vietnam veteran, Burke earned a Bronze Star and a Cross of Gallantry, which was awarded by the South Vietnamese government. After leaving active duty in 1972, Burke joined the National Guard and Reserve and was recognized with the Distinguished Service Medal and two Meritorious Service medals. During his notable military career, Burke rose through the ranks from company commander to Inspector General. He retired from the military with the rank of Lieutenant Colonel. In the mid-1970s, Burke served as Deputy Director for the Illinois Department of Veterans Affairs.

Burke earned his bachelor of science degree from Troy State and a master of business administration from the Kellogg School of Management. He is also a graduate of the US Army Command and General Staff College.



Keith Chambers
IL EQ Program Manager

Keith Chambers was selected in May of 2004 as the Earthquake Coordinator for the Illinois Emergency Management Agency (IEMA).

He is responsible for developing the state Earthquake Response plan which will be a part of the overall Illinois Emergency Operations Plan. He is also the primary point of contact for any earthquake exercises and conferences. He has developed and facilitated annual seminars for all three IEMA Regions in Southern Illinois with a focus towards the county emergency managers.

Prior to his current position, he worked as a full-time employee with the Illinois National Guard. His military and civilian work experience entails a great deal of project development, and he was hired as someone who can develop and implement a plan from inception to execution. He has also worked with other earthquake-related organizations including the Central United States Earthquake Consortium (CUSEC), the Mid-America Earthquake Center, the United States Geological Survey, and the Illinois State Geological Survey.

Chambers has a Bachelor of Applied Science from Western Illinois University. He also graduated from the United States Army Command and General Staff College.

New Madrid Catastrophic Planning Initiative

(continued from page 1)

According to FEMA and Innovative Emergency Management (IEM), the mission of the New Madrid Seismic Zone Catastrophic Planning Project is to create a comprehensive preparedness plan for a catastrophic earthquake in the NMSZ based on the most advanced impact assessment techniques and new response and recovery methodologies. Another mission of the project is to identify any issues that can not be resolved based on current capabilities and propose recommended courses of action for decision makers.

The plan consists of a breakdown of information about various workshops and roles and responsibilities by organization. CUSEC is playing a key role by supporting the logistics chief for the planning workshops, serving as the main point of contact for public information on the project and serving as the supporting contractor for the consequence assessment requirements. CUSEC is also providing staff for exercise design needs during the course of the planning and its conclusion and will be the main conduit for information to its member states.

The New Madrid Catastrophic Planning Initiative is a result of the National Earthquake Hazards Reduction Program (NEHRP), which was established by Congress when it passed the Earthquake Hazards Reduction Act of 1977. Its mission is to reduce the risks of life and property from future earthquakes in the United States.

The basic NEHRP goals are:

- To develop effective practices and policies for earthquake loss reduction and accelerate their implementation
- To improve techniques for reducing earthquake vulnerabilities of facilities and systems
- To improve earthquake hazards identification and risk assessment methods and their use
- To improve the understanding of earthquakes and their effects

(continued on page 4)

New Madrid Catastrophic Planning Initiative

(continued from page 3)

In its initial authorization, Congress recognized that several key organizations could contribute to the earthquake mitigation effort. Out of these key organizations, Congress identified the Federal Emergency Management Agency (FEMA), the National Institute of Standards and Technology (NIST), the National Science Foundation (NSF) and the United States Geological Survey (USGS) as NEHRP's lead agencies. After a thorough review by Congress, the NEHRP Reauthorization Act of 2004, PL 108-360 was signed into law by the president.

For more information on NEHRP, its 2004 reauthorization and to read about a recent NEHRP success, visit: <http://www.nehrp.gov/index.htm>.

CUSEC States plan a Full Scale Exercise to support the New Madrid Catastrophic Planning Initiative

By Paul Hogue
CUSEC Exercise/Training Officer

Several CUSEC member states will be participating in a regional earthquake exercise June 19-21, 2007. The states exercising are Arkansas, Kentucky, Missouri and Tennessee, as well as the communities of DeSoto County, Mississippi and Evansville, Indiana. Their exercises will coincide with the full-scale portion of the SONS07 exercise. SONS, short for Spills of National Significance, is a test of response activities dealing with large-scale oil and hazardous materials incidents resulting from unintentional causes. For this exercise, the precipitating cause will be a devastating earthquake in the New Madrid Seismic Zone (NMSZ). The main federal players in the spill portion will be the US Coast Guard and the Environmental Protection Agency.

In the early planning for the exercise, FEMA was a major player, especially on the earthquake piece. Due to national exercise calendar restraints, FEMA is no longer supporting the earthquake portion on the national level, though all four FEMA regional offices within the CUSEC region will support their state's exercise play as needed. As a result, the states are developing their earthquake portions of the exercise as they see it befitting their needs, though still aligning their exercises with the region as far as the basic scenario and expected damage.

In addition, CUSEC, in cooperation with the Center for Earthquake Research and Information (CERI) at the University of Memphis, the United States Geological Survey (USGS), the Earthquake Engineering Research Institute (EERI) and FEMA Mitigation/National Earthquake Hazards Reduction Program (NEHRP), will be conducting a parallel exercise with Arkansas, Missouri and Tennessee. The purpose is to test communication and processes needed to initiate and better manage post-earthquake investigations in those states.

Representatives of all three state geological surveys will be present in their respective state Emergency Operations Centers (EOC's) to receive requests and information pertaining to post-earthquake investigation efforts.

Much of the information will be sent from CUSEC offices using amateur radio volunteers on June 19. Amateur radio volunteers, commonly known as "hams," are expected to be a primary source of emergency communication following a catastrophic earthquake in this area, which will heavily damage many traditional land-based forms of communication.



Around the Region



TENNESSEE

By Jeremy Heidt

**TEMA Public Information Officer
and Alisa Nave**

CUSEC Public Outreach Coordinator

NASHVILLE, TN—Issues relating to catastrophic emergency preparedness gained a tremendous amount of awareness post-Katrina, such that Tennessee, its counties and municipalities have all taken steps to include a catastrophic annex to their emergency management plans. Though severe weather can pose a widespread damage problem, the danger with the most potentially catastrophic damage is a large earthquake in West Tennessee one of the fault lines in that region. With seismic experts all in agreement that a major quake -- similar in magnitude to the famous 1811 quake -- is almost inevitable, Tennessee emergency management officials are determined to be ready.

One major step on that process was the completion last year of a state-of-the-art State Emergency Operations Center (SEOC) at TEMA's headquarters in Nashville and a backup SEOC facility in Jackson, Tenn. Tennessee Governor Phil Bredesen was on-hand with TEMA's Director James Bassham and Tennessee Adjutant General Maj. Gen. Gus Hargett to officially open the new SEOC facility in September 2006. The facility is fully capable of handling any disasters that Tennessee might face and Governor Bredesen called the project a "significant investment in our preparedness capabilities." The renovation of the SEOC, which included upgrading the SEOC computer facilities to 88 terminals and the adjacent 24-hour manned operations center, was nearly two-thirds of the renovation project's total \$4.7 million budget. Tennessee's commitment to preparedness was also recently recognized in a review of all 50 states' disaster plans by the U.S. Department of Homeland Security.

Tennessee was one of only 10 states to be deemed fully prepared with adequate plans in place to respond in a major disaster. Having sufficient plans to respond to disasters, TEMA Director Bassham said, is not accomplished overnight. "It is a reflection of years of attention to details as plans are written, exercised and improved and so on." The new communications technology in the emergency operations center greatly expands TEMA's capability to coordinate the state's responses during an emergency and is a quantum leap forward from previous capabilities. In addition, the state has purchased four mobile communications assets that can be deployed by TEMA to restore communications with an area that has lost its existing communications infrastructure.

TEMA's system for preparedness and response to disasters earned conditional accreditation by the Emergency Management Accreditation Program (EMAP) in November 2006 in further recognition of its planning for disasters. EMAP is a voluntary accreditation process for state, territorial and local government programs that coordinate preparedness and response activities for disasters, from earthquakes to terrorist acts. EMAP recognizes the ability of a state or local government to bring together personnel, resources and communications from a variety of agencies and organizations in preparation for and in response to an emergency. This forms the foundation of the nation's emergency preparedness system. EMAP is the only accreditation process for emergency management. Eight states have achieved full accreditation to EMAP standards and six states, including Tennessee, have been given conditional EMAP accreditation. Conditional accreditation is an interim step to full accreditation for state programs.

In support of the Catastrophic Planning Initiative, Tennessee will conduct a full scale three day statewide exercise called TNCAT in coordination with various agencies and departments on June 19-21. In addition to participating in Earthquake Awareness Week, TEMA is planning several ATC-20 and ATC-21 courses across West Tennessee. One ATC-20 course is already scheduled for February 15.

More Around the Region

(continued from page 5)

INDIANA

INDIANAPOLIS, IN—The Indiana Department of Homeland Security (IDHS) continuously works with state, local and private agencies on education, awareness, mitigation, preparedness and response and recovery issues to support its effort of saving lives and reducing property damage in the event of an Earthquake.

According to IDHS Earthquake Program Manager John Steel, the first goal of 2007 for IDHS is to work on the Catastrophic Planning Initiative for the New Madrid Seismic Zone (NMSZ), in which Indiana State Environmental Planners will participate in the FEMA Earthquake Catastrophic Response Exercise in June. IDHS' second goal is to work on their state response plan which includes working on a worse case scenario plan for Evansville. IDHS is also planning several exercises for later this year which includes an all day Earthquake 101 training course in several locations across the state.

ILLINOIS

SPRINGFIELD, IL— The Illinois Emergency Management Agency (IEMA) continues to coordinate with state, local and federal agencies and voluntary organizations to protect the lives and property of its citizens. According to Keith Chambers, IEMA Earthquake Program Manager, the agency is making plans to have a county level exercise in June and a table top exercise with the State Emergency Operations Center (SEOC) in October.

The agency is also continuing its work with the Mid-America Earthquake Center (MAE) on their risk assessment model—a tool used to describe the expected risk for an area or population from a specific threat such as an earthquake, and it helps assess that risk by including damages and loss estimations for building and infrastructure inventory. IEMA is also planning a full scale earthquake exercise for March 2008.

MISSISSIPPI

Mississippi Emergency Management Agency (MEMA) continues to focus on programs essential to earthquake hazard reduction. In addition to participating in Earthquake Awareness Week, MEMA Earthquake Program Manager Suzanne Lewis said the agency will participate in the upcoming Catastrophic Earthquake Response Exercise in June as well as update their state and local county plans.

Mississippi also ended 2006 on a high note making training a priority when federal, state and county emergency responders, managers and USCG employees gathered at the DeSoto County Emergency Management Headquarters in Nesbit, MS from October 24 to 26 for an Incident Management/Unified Command for Terrorism class. The course, taught by TEEX Instructor Sam Wilson, helped to reinforce the development of a multi-discipline incident management team capable of responding to a CBRNE or terrorist incident.



The class also included a basic exercise based around a seismic event in North Mississippi. Students played an incident management team sent to support local authorities and officials in Senatobia, Mississippi. The team worked through several obstacles including a reporter slipping into the command post and disrupting response efforts. The course has been determined by DHS as “TCS-300 Compliant and Equivalent Training.”

More Around the Region

ARKANSAS

CONWAY, AR— Arkansas Department of Emergency Management (ADEM) continues to support the mission of the reduction of deaths, injuries, property damage and economic loss resulting from an earthquake through participation in various programs and activities. ADEM is involved in several upcoming projects which include: an Earthquake Awareness DVD, an Earthquake Newsletter and an Earthquake planning workshop in March for the New Madrid Catastrophic Planning Initiative.

Several Arkansas counties are also updating their earthquake templates. Also in support of CAT Planning, Arkansas will participate in the FEMA Earthquake Response Exercise in June. ADEM Earthquake Program Manager Veronica Pogue is an active representative on the planning committee for the 2007 National State Earthquake Program Managers Meeting scheduled for April 22 to 26, and the 2008 National Earthquake Conference to be held in Seattle, Washington.

In addition to its participation in Earthquake Awareness Week, ADEM is also pursuing funding under the Pre-Disaster Mitigation (PDM) Grant Program to update their State Hazard Mitigation Plan.

MISSOURI

JEFFERSON CITY, MO— Missouri State Emergency Management Agency (SEMA) is continuously improving proactive programs in the areas of mitigation, preparedness through outreach and education and response and recovery plans.

Susie Stonner, SEMA Public Information Officer, said the agency has a busy year ahead, with participation in 2007 Earthquake Awareness Week and several table top exercises leading up to the FEMA Catastrophic Earthquake Response Exercise that will be conducted in conjunction with the Spills of National Significance (SONS) exercise June 19-21. In the exercise, Missouri will test the State's Catastrophic Event Annex during initial earthquake

response, after seven days then after 30 days. Two days will be focused on response, and one day will be focused on recovery. The exercise will be conducted at the State Emergency Operations Center (SEOC) in Jefferson City with additional exercise locations tentatively set for the regional exercise. SEMA's long term goals include improving their outreach library of earthquake related literature, promoting the use of building codes and supporting the utilization of HAZUS.

ALABAMA

CLANTON, AL— Upon becoming a CUSEC Member State in 2003, the Alabama Emergency Management Agency (ALEMA) has taken a more active role in earthquake planning and preparedness. Amanda Capps, Alabama Earthquake Program Manager, said the agency will continue to work on its goal to minimize human suffering, property damage and economic loss associated with seismic events. AEMA plans to hold a workshop steering committee meeting in February to support the Catastrophic Planning Initiative. Capps also said the agency is planning a state and local workshop in the first quarter of this year and will observe Earthquake Awareness Day on April 30.

KENTUCKY

FRANKFORT, KY— The Kentucky Division Emergency Management (KYDEM) is working in coordination with other state, federal and non-governmental agencies to better prepare its citizens for New Madrid Seismic Zone (NMSZ) events. According to Earthquake Program Manager, Steve Oglesby, KYDEM's goals for 2007, are to increase public awareness of earthquakes along with the importance of preparedness, continue to get funding from Homeland Security and increase their number of exercises. KYDEM is active in training this year and intends to focus their attention on the Catastrophic Planning Initiative. The agency is planning a Catastrophic Earthquake Response Exercise on June 19, a Staging and Resource Management Exercise on June 20 and a Mass Care Exercise on June 21, which was created to help people who would be uprooted from their homes because of a catastrophic event. KYDEM is also participating in Earthquake Awareness Week in February.

***E* Earthquake Awareness Week Calendar**

Earthquake Awareness Week has been a vital part of educating the public on earthquake hazards and the importance of mitigation. Each CUSEC state shares the same hazard, media market and goal to save lives and reduce economic loss. For the first time, six out of the eight CUSEC states are observing this event together. The following states have planned activities to increase awareness and promote planning among residential, business and professional communities in the event a damaging earthquake occurs in the central United States. For more information on any of the activities going on in these states, contact the State Earthquake Program Manager.

TENNESSEE

<u>Event</u>	<u>When</u>	<u>Where</u>
Health and Hospital Planning Workshop	February 12, 2007	Memphis Tennessee
Community Emergency Response Team Training	February 12, 2007	Memphis, Tennessee
Small Business Continuity Planning	February 13, 2007	Memphis, Tennessee
Community Emergency Response Team Training	February 13, 2007	Memphis, Tennessee
Best Practices & Lessons Learned for Information Technology Planning	February 14, 2007	Memphis, Tennessee
Post Earthquake Safety Evaluation of Buildings	February 15, 2007	Memphis, Tennessee

KENTUCKY

<u>Event</u>	<u>When</u>	<u>Where</u>
Donations Management Course	January 29-30, 2007	Henderson, Kentucky
Earthquake Townhall Meeting	January 31, 2007	Henderson, Kentucky
Rapid Visual Screening of Buildings for Potential Seismic Hazards	February 1, 2007	Henderson, Kentucky
Post Earthquake Safety Evaluation of Buildings	February 2, 2007	Henderson, Kentucky
Statewide Duck, Cover, & Hold Drill	February 6, 2007	Throughout Kentucky

ARKANSAS

<u>Event</u>	<u>When</u>	<u>Where</u>
Earthquake Townhall Meeting	February 5, 2007	West Memphis, Arkansas
Earthquake Drill with Marion School District	February 5-7, 2007	Marion, Arkansas
Disaster Preparedness for Small Businesses	February 8, 2007	Jonesboro, Arkansas
Post Earthquake Safety Evaluation of Buildings	February 9, 2007	Jonesboro, Arkansas
Arkansas Seniors are Prepared Program	February 1-27, 2007	Throughout Arkansas

Earthquake Awareness Week Calendar

CUSEC Executive Director Jim Wilkinson explains earthquake preparedness and mitigation measures to visitors during the 2006 Missouri Earthquake Awareness Week



MISSOURI

<u>Event</u>	<u>When</u>	<u>Where</u>
Seismic Safety Meeting	February 1, 2007	St. Louis University St. Louis, Missouri
Earthquakes Mean Business Seminar	February 2, 2007	AT&T Center St. Louis, Missouri
Hands-On Exhibits, Speakers, Maps and Displays for Children and Parents	February 3, 2007	St. Louis Science Center St. Louis, Missouri
Earthquake Townhall Meeting	February 5, 2007	Charleston, Missouri
Non-Structural Hazard Mitigation Workshop	February 6, 2007	Cape Girardeau, Missouri
Earthquake Townhall Meeting	February 8, 2007	New Madrid, Missouri
SEMA & DNR Earthquake 101 for Teachers Classroom Instruction	February 10, 2007	New Madrid, Missouri
Earthquake 101 for Teachers Field Trip	February 11, 2007	New Madrid, Missouri

MISSISSIPPI

<u>Event</u>	<u>When</u>	<u>Where</u>
Various Activities	February 5-9, 2007	Northern Mississippi

Indiana

<u>Event</u>	<u>When</u>	<u>Where</u>
Various Activities	February 5-9, 2007	Evansville, Indiana

Geo-Caching: CUSEC Style

As a result of a personal interest of Executive Director Jim Wilkinson, CUSEC joined in on the high-tech game of geo-caching in 2006. Wilkinson and his 4-year-old daughter took up geo-caching in 2005 and found it to be a fun activity. "It didn't take much to see that geocaching would be a novel way to promote earthquake awareness," Wilkinson said. For geo-cachers interested in the site, it provides a unique outlet for promoting earthquake awareness. According to the Wikipedia Encyclopedia, geo-caching is an out door treasure-hunting game in which the participants use a global positioning system or other navigational techniques to hide and seek containers (called "geo-caches" or "caches") anywhere in the world. The cache usually contains a toy or trinket of little monetary value. CUSEC now has a cache at it's headquarters with earthquake mitigation and preparedness information in it. To learn more about geo-caching, visit <http://www.geocaching.org>

Around the Nation

2007 WSSPC Awards



The Western States Seismic Policy Council Awards in Excellence program recognizes achievement in different areas of earthquake mitigation, preparedness and response. State, provincial, county, or city governmental or non-profit agencies are eligible for the WSSPC *Awards* in Excellence. Programs must be nominated by someone outside of the nominated agency. For more information, visit <http://www.wsspc.org/Awards/>

EERI Video Downloads Available



EERI is pleased to announce the availability of video downloads of live presentations from the important 2006 seminar, "New Information on the Seismic Performance of Existing Concrete Buildings." Developed by the Pacific Earthquake Engineering Research (PEER) Center and funded by FEMA, they are intended for practicing design professionals and cover the following: Current Assessment Approaches (J. Moehle of UC Berkeley); Performance Assessment through Nonlinear Time History Analysis (G. Deierlein, Stanford); Behavior and Modeling of Existing RC Columns (K. Elwood, UBC); Beam-Column Connections (Moehle); Slab-Column Frames, Slender Wall Behavior and Modeling, and Lightly-Reinforced Wall Segments (J. Wallace, UCLA); and System Performance Assessment (Deierlein). These videos provide information on new procedures that effectively address problems of concrete buildings that can result in damage and potential for collapse.

These videos provide information on new procedures that effectively address problems of concrete buildings that can result in damage and potential for collapse. These procedures are based on the latest research at PEER on performance-based earthquake engineering. As a practicing design professional, you will gain valuable information that you can use today. Their cost is \$25 per presentation for EERI members; \$45 per presentation for nonmembers. All orders include a bonus presentation: an historical overview by Professor Moehle.

To order online, visit http://www.eeri.org/cds_publications/catalog/. These videos are listed under "New Products."



For more information on the following calendar & training events, visit the CUSEC website at - www.cusec.org

Calendar of Events

February 1-11	Earthquake Awareness Week	Missouri
February 1-6	Earthquake Awareness Week	Kentucky
February 5-9	Earthquake Awareness Week	Mississippi, Arkansas, Indiana
February 12-16	Earthquake Awareness Week	Tennessee
February 1	Central United States Advisory Council Meeting	St. Louis, Missouri
February 11	CUSEC Board Meeting	Washington, D.C.
February 10-14	NEMA 2007 Mid-Year Conference	Alexandria, VA
April 10	Post Earthquake Investigation Workshop	Memphis, Tennessee
April 22-26	2007 National Earthquake Program Managers Meeting	Pigeon Forge, Tennessee

Training & Exercise Opportunities

February 9, 2007	ATC 20 Post Earthquake Inspection	Jonesboro, Arkansas
February 15, 2007	ATC 20 Post Earthquake Inspection	Memphis, Tennessee
March 5, 2007	FEMA 154: Rapid Visual Screening of Buildings	Jackson, Tennessee
March 6, 2007	ATC 20 Post Earthquake Inspection	Jackson, Tennessee
April 3, 2007	Earthquake Exercise Research Committee	Memphis, Tennessee
June 19-21, 2007	Catastrophic Earthquake Scenario Exercise & SONS07	Indiana, Missouri, Mississippi, Arkansas, Kentucky
June 19-21, 2007	TNCAT Earthquake Scenario Exercise	Tennessee

CUSEC NEWS

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