

## EARTHQUAKE ENGINEERING RESEARCH INSTITUTE NEWSLETTER

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### EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

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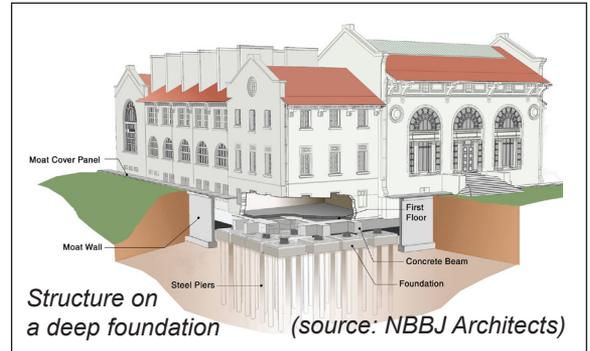
## News of the Institute

### EERI Seminar on Deep Foundations

EERI's second day-long seminar in the series on Performance-Based Earthquake Engineering for Structural and Geotechnical Engineers will be held in three locations in July 2008: July 15 in Seattle, July 23 in San Francisco, and July 24 in Los Angeles. The topic is important for structural and geotechnical engineers who are interested in the rapidly emerging application of performance-based procedures to the seismic evaluation and design of structures.

The title of this second seminar in the series is "Practical Applications to Deep Foundations: Buildings, Bridges, and Ports." Following are the eight program presentations:

- Overview of Soil-Structure Interaction for Deep Foundations
- Performance-Based Concepts, Methods and Tools for Practitioners
- Design and Assessment Approach: Pile and Caisson Bridge Foundations
- The Role of Field Load Testing in Performance-Based Design
- Examples of a Building and a Concrete Reservoir
- Current Practice for Container Wharf Piles
- Current Practices and Future Directions with Basement Walls
- What the Future Holds



*continued on page 2*

### Update from the Concrete Coalition

As noted on page 1 of the February 2008 *Newsletter*, the Concrete Coalition has received funding from the California Office of Emergency Services to help define the problem of nonductile concrete frames in California. Fifty EERI members and others responded positively to the request for volunteers. A steering committee and a database subcommittee are being formed. The project will be led by EERI past-president Craig Comartin. Steering committee members include Nick Alexander, David Bonowitz, Michael Cochran,

Nick DelliQuadri, Ken Elwood, Bill Holmes, Joan MacQuarrie, Peter May, Dave McCormick, Jack Moehle, Chris Rojahn, Susan Tubbesing, Fred Turner, and Ken Worman. Representatives from the business community are being identified. Volunteers and others interested in the project are encouraged to visit the website [www.concretecoalition.org](http://www.concretecoalition.org) for more information and updates. Please review and suggest additions to the compilation of resources that would be helpful in understanding this problem, such as publications, model ordinances, white papers, and design guidelines. Questions? Contact Marjorie Greene at [mgreene@eeri.org](mailto:mgreene@eeri.org).

### Delay in *Spectra* 24:1

EERI apologizes for the delays affecting the publication of the February 2008 issue of *Earthquake Spectra*,

which covers the Next Generation Attenuation Project. It should be posted online in mid-May. We greatly appreciate your patience and believe it will be well worth the wait.

## News of the Profession

### Probabilities for California Quakes

For the first time, probabilities for a large earthquake occurring in the next 30 years on a specific fault, on a group of faults, or in the state as a whole have been published. New official earthquake forecasts, contained in the *Uniform California Earthquake Rupture Forecast (UCERF)*, have been developed by the multidisciplinary Working Group on California Earthquake Probabilities composed of scientists and engineers and sponsored by the U.S. Geological Survey, the California Geological Survey, and the Southern California Earthquake Center. Building on previous studies, the group developed the first-ever state-wide, comprehensive model of California. The state has more than a 99% chance of having a magnitude 6.7 or larger earthquake within the next 30 years. The likelihood of a major quake of magnitude 7.5 or greater in the next 30 years is 46% — and such a quake is most likely

to occur in the southern half of the state.

The model comprehensively combines information from seismology, earthquake geology, and geodesy. The new information is being provided to decision makers who establish local building codes, earthquake insurance rates, and emergency planning.

The new information allows for meaningful comparisons of earthquake probabilities in Los Angeles and the San Francisco Bay Area, as well as comparisons among several large faults. The probability of a magnitude 6.7 or larger earthquake over the next 30 years striking the greater Los Angeles area is 67%; in the San Francisco Bay Area it is 63%, similar to previous estimates. In the entire state, the fault with the highest probability of generating at least one magnitude 6.7 quake or larger is the southern San Andreas (59% in the next 30 years). For northern California, the most likely source of such earthquakes is the Hayward-Rodgers Creek Fault (31% in the next 30 years).

Earthquake probabilities determined for many parts of the state are similar to those in previous studies, but the new probabilities calculated for the Elsinore and San Jacinto Faults in southern California are about half those previously determined. For the far northwestern part of the state, a major source of earthquakes is the offshore 750-mile-long Cascadia Subduction Zone, the southern part of which extends about 150 miles into California. In the next 30 years, there is a 10% probability of a magnitude 8 to 9 quake somewhere along that zone. Such quakes occur about once every 500 years on average.

Subsequent studies will add information on the vulnerability of man-made structures, so as to improve the estimates of expected losses.

For the full UCERF report, visit <http://pubs.usgs.gov/of/2007/1437/>; a summary fact sheet is available at <http://pubs.usgs.gov/fs/2008/3027/>, and supplemental information can be found at <http://www.scec.org/ucerf/>.

## Deep Foundations Seminar

*continued from page 1*

The seminar is funded by FEMA. Registration fees will be \$200 for members of EERI and sponsoring organizations, \$175 for EERI Subscribing Members, \$300 for nonmembers, and \$100 for EERI Student/Young Professional/Retired Members. For more information and to register, visit [www.eeri.org](http://www.eeri.org).

The first seminar in March 2007 focused on spread footings and case studies of actual project applications by practicing engineers. Future seminars are anticipated to cover seismic pressures on basements and embedded structures, new procedures for ground motion, and other topics of practical interest to structural and geotechnical engineers.

## News of the Institute

### New Madrid Scenario Update and Call

The New Madrid Chapter of EERI is developing the New Madrid Earthquake Scenario (NMES — see page 4 of the January *Newsletter*). For information about the NMES, its vision, goals, products, and meetings, visit [www.newmadrid.eeri.org](http://www.newmadrid.eeri.org). The NMES Steering Committee is planning to hold a participants' workshop the first week of June 2008. It is also developing a symposium entitled "Seismic Sources (Hazards) in the Central U.S.: Is New Madrid All There Is?" It is tentatively scheduled for September 18 as part of the 2008 Association of Environmental & Engineering Geologists annual meeting in New Orleans. For the symposium, seismologists, geophysicists and geologists active in the central U.S. are invited to submit papers. For abstract submission instructions, visit [www.newmadrid.eeri.org](http://www.newmadrid.eeri.org). The abstract deadline is May 1. For an extension, e-mail [Greg\\_Hempen@urscorp.com](mailto:Greg_Hempen@urscorp.com).

### New EERI Student Chapter

EERI is pleased to announce that a new EERI student chapter has been established at the University of Wyoming in Laramie, supported by its Department of Civil Engineering. The chapter's faculty advisor is Assistant Professor Jennifer Tanner, and its professional contact member is Jim Harris of JR Harris & Company in Denver.

## News of the Institute

### Award for Seattle Fault Scenario

*Scenario for a Magnitude 6.7 Earthquake on the Seattle Fault*, jointly published by EERI and the Washington Military Department, Emergency Management Division (EMD) was selected to receive the 2008 National Award in Excellence for Outreach by the Western States Seismic Policy Council (WSSPC). The award was presented on April 24, during the NEHRP-sponsored National Earthquake Conference in Seattle.

Published in 2005, the scenario was the culmination of an EERI Endowment Fund project that began in 2002. It has fostered community involvement and outreach that will serve as a model for other scenario efforts. It was spearheaded by a 12-member, multi-disciplinary project team of scientists, engineers, plan-

ners, emergency managers, and social scientists, for the purpose of forecasting the impact of a scenario earthquake in the heavily populated Central Puget Sound region of Washington State. The target audience included local and state decision makers, public and private sector emergency managers, local land-use planners, engineers, and architects.

The project team unveiled its findings to public officials in the study area in early February 2005. It was featured in a front-page feature in the February 20, 2005, Sunday *Seattle Times*, and was presented to a conference attended by nearly 500 individuals on the fourth anniversary of the 2001 Nisqually earthquake. The scenario project and conference received region-wide and national media coverage. Additionally, the project team made presentations to state legislative committees, transportation planners, a variety of professional organizations, and to the 100<sup>th</sup> Anniversary

Earthquake Conference in 2006 in San Francisco. The project and earthquake scenario was featured in a program for the "It Could Happen Tomorrow" series on The Weather Channel in early 2007. More than 4,000 copies of the scenario publication were distributed, and it is available at no charge from EERI's web site, <http://seattlescenario.eeri.org/>.

The scenario has been used by businesses and public agencies in their earthquake preparedness efforts. The scenario was used for a Central Puget Sound region-wide exercise called Sound Shake 08 in March that involved public and private sector participation.

EERI is developing a workshop on earthquake scenario development with the Seattle scenario as one model that communities can follow. The USGS and EMD will use the scenario as a template to develop scenarios for other earthquake faults in western Washington.

## Site and Urban Design for Security Now Available Online

A new publication, produced by EERI, has been published in FEMA's Risk Management Series, which is directed towards providing design guidelines for mitigating the risk of multihazard events. *Site and Urban Design for Security: Guidance against Potential Terrorist Attacks*, FEMA Publication 430, is the first publication produced by EERI that deals with man-made threats. The publication provides information for the protection of buildings and occupants by the use of design features from the site perimeter to the face of the building. Experience has shown that the most effective way to prevent serious damage to buildings from bomb-laden vehicles is by site design that limits the ability of vehicles to approach closely or to enter a target building. The publication outlines the ways in which

threats are evaluated and defensive design strategies developed. A secondary objective is to show how effective security can be achieved while at the same time preserving or enhancing the amenity and aesthetics of the site.

The primary intended audience includes the community of architects, landscape architects, engineers, and other consultants working for private institutions, building owners and managers, and state and local government officials concerned with site planning and design. FEMA 430 is one of a series that addresses security issues in high-population, private-sector buildings. It is a companion publication to the *Reference Manual to Mitigate Potential Terrorist Attacks against Buildings* (FEMA 426), which provides a summary of current methods for assessing the

threats, vulnerability, and risk to major new and existing buildings and the design methods needed to enhance their protection and that of their occupants.

EERI Honorary Member Chris Arnold is the editor and principal author, with the assistance of Mary Ann Lasch (a landscape architect and urban designer with Gensler Architects in Washington D.C.), the National Capital Planning Commission, and the New York Police Department.

The publication is currently available online at <http://www.fema.gov/library/viewRecord.do?id=3135>. It will shortly be available in a hard copy of 250 pages, in full color throughout. Free copies will be available from the FEMA Publication Warehouse.

## News of the Profession

### G. Wayne Clough: Secretary of Smithsonian

The Smithsonian Institution's Board of Regents recently announced that former EERI Board member G. Wayne Clough, president of the Georgia Institute of Technology, has been unanimously elected the 12th Secretary of the Smithsonian. He will officially assume the office July 1, succeeding Lawrence M. Small, who resigned as Smithsonian Secretary March 26, 2007.

"Wayne has shown an ability to advance dramatically the institutions and constituencies he has served through innovative curricula, economic health, mentorship, national policy input, and community relations," said Alan Spoon, a member of the Board of Regents and chairman of the search committee. Clough served a term on EERI's Board of Directors from 1987 to 1990.

He became president of Georgia Tech in 1994. In less than 15 years, he transformed it into one of the top public research universities in the country, consistently ranked among the nation's top 10. While improving Georgia Tech's reputation for science, Clough has also emphasized the importance of humanities education. He established two endowed chairs in poetry. He also has strengthened the university's commitment to public policy and public service. With extensive experience in public policy issues at the local, state and national levels, Clough currently serves on the President's Council of Advisors on Science and Technology (PCAST) and on the National Science Board (the governing body of the National Science Foundation). He is also vice chair of the

U.S. Council on Competitiveness, a nonprofit focused on eliminating barriers that make the United States less competitive in the sciences, wireless communication, and innovation.

The Smithsonian Institution is a museum and research complex of 19 museums and galleries and the National Zoological Park, as well as nine research facilities. The Institution has a total annual budget of nearly \$1 billion, approximately 70 percent federally funded.



G. Wayne Clough

## Obituaries

### Robert Chieruzzi 1927-2008

Former EERI member Robert Chieruzzi passed away at the age of 81 on January 17. A native of Pennsylvania, Bob spent his professional life primarily in southern California. Bob graduated from Carnegie Insti-

tute of Technology and earned a master's degree from Ohio State University. After teaching soil engineering at the University of Southern California and serving as a staff engineer for the Southern California Edison Company, Bob joined LeRoy Crandall and Associates in 1966. He opened the firm's San Diego branch office in 1985 and managed that office until he retired in 1990.

Bob's primary expertise was in the earthquake engineering aspects of geotechnical engineering, developing site characteristics for earthquake design, including liquefaction studies and preparation of site response spectra. He had been an active member of the American Society of Civil Engineers, the Consulting Engineers Association, and the Structural Engineers Association of Southern California.

### Richard C. Harlan 1929-2008

EERI member Richard C. Harlan, an internationally regarded dam engineer, died on March 7. A graduate of Stanford University, Dick was employed by Dames & Moore in its Los Angeles and New York offices following his release from the Navy in 1954. In 1958, he went on to work in Bechtel's Civil Dams Department in San Francisco. He had a key position on the engineering team for the

vast Churchill Falls hydro project in the provinces of Newfoundland and Labrador, Canada. He was responsible for the design and construction of four spillways and the 90 embankments for the reservoir that supplies one of the world's largest hydroelectricity-generating facilities.

Dick began his own consulting business in 1972 providing high-quality geotechnical engineering services. In 2001 he participated in the development of Chapter 14 of the Federal Energy Regulatory Commission's engineering guidelines, and he also

participated in the development of the potential failure mode analysis process.

Dick was a geotechnical engineer with extensive experience in the planning, investigation, design, and construction of major water resource projects, and specialized in the evaluation of safety, seismic stability, and liquefaction resistance of existing dams. He was a recipient of a Western Region Award of Merit for Contributions to Dam Safety by the Association of Dam Safety Officials in 1998.

## Publications

### ***Protection of Museum Collections***

The J. Paul Getty Museum has published the latest research findings in seismic mitigation for museum collections in *Advances in the Protection of Museum Collections from Earthquake Damage: Papers from a Conference Held at the J. Paul Getty Museum at the Villa May 3-4, 2006*. Contributors to this volume—ranging from museum conserva-

tors, mount makers, and historical archaeologists, to seismologists and structural engineers—discuss and illustrate a wide variety of mitigation efforts for collections, from the simple and inexpensive to the complex and costly. The book's contributions examine the techniques applied to large and small collections, encompassing exhibition cases containing objects, monumental works of art, and historical structures. Approaches range from securing and restraining objects to decoupling them from the ground through base-isolation mechanisms.

The 240-page paperback has more than 140 color figures and can be purchased for \$75 from Getty Publications (800-223-3431).

The volume was edited by Jerry Podany, conservator of antiquities at the Getty Museum. In 2007, Podany was awarded the Heritage Innovation Prize from EERI's Heritage and Existing Structures Committee in recognition of his outstanding contributions to the development and implementation of innovative solutions and policies to preserve heritage structures and related artifacts.

## Special Issue on Response Spectra

The March 2007 issue of the Indian Society of Earthquake Technology (ISET) *Journal of Earthquake Technology* is a special issue on response spectra, with EERI member

M. D. Trifunac, professor of civil engineering at the University of Southern California, serving as guest editor. (Although dated 2007, this issue was published this year.) It commemorates the 75th anniversary of the response spectra method, the mathematical formulation of which first appeared in the doctoral

dissertation of M. A. Biot in 1932. Biot subsequently presented the method to a Seismological Society of America meeting.

To obtain more information, visit <http://home.iitk.ac.in/~vinaykg/iset.html>. For payment information, contact the ISET secretary at [iset@iitr.ernet.in](mailto:iset@iitr.ernet.in).

## Tsunami Sources

### ***Tsunami Information Sources***

Robert L. Wiegel, professor emeritus in the Department of Civil Engineering at the University of California, Berkeley, has compiled the fourth in a series of lists entitled *Tsunami Information Sources*. All four are available online at <http://www.lib.berkeley.edu/WRCA/tsunamis.html#wiegel>. This site is part of UC's Water Resources Center Archives, which collects materials on all aspects of water resources.

Weigel's first list was organized in two parts: (a) bibliographies, books and pamphlets, catalogs, collections, journals and newsletters, maps, organizations, proceedings, videos and photos; and (b) articles, papers, and reports listed alphabetically by author. The second and third lists added two subject categories: (c) planning and engineering for design for tsunami mitigation and protection; adjustments to the hazard;

damage to structure and infrastructure; and (d) tsunami propagation nearshore; induced oscillations; runup, inundation, and drawdown. The fourth list adds a third topic area: impulsively generated waves by rapid mass movement, either submerged or into a body of water.

### **Global Historical Tsunami Database**

The World Data Center/National Geophysical Data Center has completed the integration of over 3,800 Japanese tsunami runups into the WDC/NGDC Global Historical Tsunami Database. These data were provided by the Japan Meteorological Agency (JMA). The data consist of a careful review of JMA's own data and extracts from available literature, including identifying whether the runup heights were amplitude or peak-to-trough. The data are from 1927 to 2003 and consist of tide gauge and runup records. Approximately 1,300 records already exist in the WDC/NGDC database and

were updated with the corrected data. The remaining 2,500 records are new data that have been added. The data can be displayed from [http://www.ngdc.noaa.gov/hazard/tsu\\_db.shtml](http://www.ngdc.noaa.gov/hazard/tsu_db.shtml).

## Call for Abstracts

### **Earthquake and Tsunami Conference**

The World Council of Civil Engineers, the European Council of Civil Engineers, and the Turkish Chamber of Civil Engineers are jointly organizing an Earthquake and Tsunami Conference, to be held in Istanbul, Turkey, June 22-24, 2009. The conference aims to advance millennium development goals through furthering a seismically safe and sustainable built environment. Papers reporting research and practical applications are welcome. The last date for abstract submission is May 31, 2008. For more information, visit <http://www.imo.org.tr/eqt2009/>.

## Job Opportunities

### Build Change Position

Build Change, an award-winning, international non-profit social enterprise with post-earthquake housing reconstruction programs in Indonesia and Peru, is seeking a program manager/structural engineer to expand ongoing owner-driven housing reconstruction programs in West Sumatra and Bengkulu, Indonesia.

The successful candidate will combine proven management and coordination skills with structural and earthquake engineering design expertise, and hands-on construction experience. Responsibilities and requirements are available at [www.buildchange.org](http://www.buildchange.org). To apply, send a cover letter and CV to [apply@buildchange.org](mailto:apply@buildchange.org). Deadline: May 7, 2008. Women and minorities are encouraged to apply.

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### UCSD Position

The Department of Structural Engineering in the Jacobs School of Engineering of the University of California, San Diego, seeks applicants for the position of lecturer (job number 5-048-D). Required: a doctorate in structural engineering (or closely allied field), and a record of effective and innovative teaching at the undergraduate level in the areas of introductory structural engineering, mechanics of materials, computational analysis, and design, along with strong interpersonal writing and computer skills. Responsibilities: teaching core courses including laboratories, improvement of curriculum, and development of new undergraduate educational initiatives.

Review of applications begins May 1, 2008, and continues until the position is filled. For more information, visit [http://structures.ucsd.edu/?page=structural\\_engineering/employment/faculty](http://structures.ucsd.edu/?page=structural_engineering/employment/faculty).

## Subscribing Member Posting

### Seismologist Position

EERI Subscribing Member AIR Worldwide in Boston, Massachusetts, has an opening for a seismologist in its Research & Modeling Department. As part of a team of seismologists, civil and structural engineers, and other professionals, the selected candidate would help develop seismic risk analysis models used to estimate losses from natural catastrophes. Requirements: 2+ years of practical experience and a Ph.D. in seismology or a related field. Desired knowledge and skills: comprehension of seismotectonics analysis, probabilistic seismic hazard analysis, ground motion attenuation studies, local site and soil effects, near-source effects, geodetic studies; proficiency in scientific programming languages; and GIS and risk modeling experience. For more information, visit [www.air-worldwide.com](http://www.air-worldwide.com).

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### Call for Papers

#### **PAGEOPH Special Issue**

A special issue of *Pure and Applied Geophysics (PAGEOPH)* is being planned, entitled *Seismogenesis and Earthquake Forecasting: The Frank Evison Volume*. The goal of this volume is to bring together work from scientists and students working in the fields of seismogenesis and earthquake forecasting, and to honor the late Frank Evison, a pioneer in the field. The issue will include papers stemming from and related to a workshop held in Wellington, New Zealand, February 18-22, 2008 (described in: <http://www.gns.cri.nz/evisonsymposium>). You do not need to have attended the symposium to contribute to the volume.

You may e-mail a title for consideration to [Martha.Savage@vuw.ac.nz](mailto:Martha.Savage@vuw.ac.nz). Papers will be due August 1, 2008.

## Announcements

### Crustal Deformation Workshop

Free registration is open for the 2008 Workshop on Numerical Modeling of Crustal Deformation and Earthquake Faulting, scheduled for June 23-27, 2008, at the Colorado School of Mines in Golden. The focus will be on computational models addressing the seismic cycle across single and multiple events. The sponsors are Computational Infrastructure for Geodynamics, the Southern California Earthquake Center, the National Science Foundation, and the National Aeronautics and Space Administration. The organizers expect to be able to provide reimbursement for a portion of the costs incurred for registered attendees with official appointments at U.S. institutions. For more information and to register, visit <http://geodynamics.org/cig/workinggroups/short/workshops/cfem-08>.

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### Bridges and Highways

The 6th National Seismic Conference on Bridges & Highways will be held July 27-30, 2008, in Charleston, South Carolina. To see the program at a glance, go to [http://www.scdot.org/events/6NSC/pdfs/program\\_at\\_a\\_glance.pdf](http://www.scdot.org/events/6NSC/pdfs/program_at_a_glance.pdf). April 30 is the deadline to register at the early-bird discount rate. A pre-conference professional development workshop will take place on July 27 entitled "Best Practices for Seismic Design and Retrofit of Bridges." The workshop will highlight several fundamental seismic topics and correlate them with the updated 2008 force-based *AASHTO LRFD Bridge Design Specification, Guide Specification for LRFD Seismic Bridge Design*, and the *Seismic Retrofitting Manual for Highway Structures*. For more information or to register online, visit [www.scdot.org/events/6nsc](http://www.scdot.org/events/6nsc).

## CALENDAR

Items that have appeared previously are severely abbreviated. The issue containing the first appearance, or the most informative, is indicated at the entry's end. Items listed for the first time are shown in bold.

### 2008

#### MAY

**2. GeoMO 2008 (Geotechnical EQ Eng.: Site Response), Rolla, MO.** Info: <http://geommo.mst.edu/> (5/08)

18-22. Geotechnical EQ Eng. and Soil Dynamics Conf. IV, Sacramento, CA. Info: [www.geesd.org](http://www.geesd.org) (10/06)

26-28. XXXIII South American Structural Eng. Cong. (SASEC), Santiago, Chile. <http://ingenieria.uchile.cl/ooc/jornadas2008/> (6/07)

#### JUNE

**TBA. New Madrid Earthquake Scenario Workshop**, location TBA. See page 2. (5/08)

4-6. Int'l Ass'n for Bridge and Structural Eng. (IABSE) Conf., Helsinki. Info: [www.iabse.org/conferences/helsinki2008/index.php](http://www.iabse.org/conferences/helsinki2008/index.php) (6/07)

11-14. 1st Int'l Symposium on Life-Cycle Civil Engineering (IALCCE'08), Varenna, Lake Como, Italy. Info: <http://www.ialcce.org> (2/08)

15-18. World Conf. on Disaster Management (WCDM), Toronto, Ont. Info: [www.wcdm.org/](http://www.wcdm.org/) (10/07, 11/07)

18-20. Network for EQ Eng. Simulation (NEES) Annual Meeting, Portland, OR. Info: <http://nees.org/Education/AnnualMeeting/>. See page 8. (12/07, 2/08, 5/08)

**23-27. Crustal Deformation Workshop**, Golden, CO. See page 6. (5/08)

30-July 5. Performance-Based Struct. Design Optimization Minisymposium, Venice, Italy. Info: <http://www.iaconeccomascongress2008.org/> (9/07, 11/07)

#### JULY

8-11. Int'l Seismic Eng. Conf. Commemorating the 1908 Messina & Reggio Calabria EQ (MERCEA'08),

Reggio Calabria, Italy. Info: <http://www.mercea08.org> (9/07, 10/07 [date changed])

9-13. Int'l Seminar on Seismic Risk and Rehabilitation of Stone Masonry Housing, Azores, Faial Island. Info: <http://www.azores1998earthquake.org> (1/08)

13-17. 4th Int'l Conf. on Bridge Maintenance, Safety and Management (IABMAS'08), Seoul, Korea. Info: [www.iabmas08.org](http://www.iabmas08.org) (2/08)

**15. Practical Applications of Performance-Based EQ Eng. (PBEE) to Deep Foundations: Buildings, Bridges, and Ports**, Seattle, WA. See page 1. (5/08)

**23. Practical Applications of PBEE to Deep Foundations: Buildings, Bridges, and Ports**, San Francisco, CA. See page 1. (5/08)

**24. Practical Applications of PBEE to Deep Foundations: Buildings, Bridges, and Ports**, Los Angeles, CA. See page 1. (5/08)

27-30. 6th Nat'l Seismic Conf. on Bridges and Highways and Workshop on Best Practices for Seismic Design and Retrofit of Bridges, Charleston, SC. Info: [www.scdot.org/events/6NSC](http://www.scdot.org/events/6NSC). See page 6. (7/07, 5/08)

#### AUGUST

11-16. 6th Int'l Conf. on Case Histories in Geotechnical Engineering (6ICCHGE), Washington, D.C. Info: <http://www.6icchge2008.org> (4/06, 9/06, 2/07, 6/07, 10/07, 4/08)

**12-14. New Madrid Seismic Zone Conf.: Preparing for a Significant EQ**, Rolla, MO. [conference.mst.edu/newmadridconf/index.html](http://conference.mst.edu/newmadridconf/index.html) (5/08)

25-29. Int'l Disaster and Risk Conf. (IDRC), Davos, Switzerland. Info: [www.idrc.info](http://www.idrc.info) (1/08)

#### SEPTEMBER

16-17. 5th European Workshop on the Seismic Behavior of Irregular and Complex Structures (5EWICS), Catania, Italy. Info: <http://www.5ewics.dica.unict.it/> (12/07)

17-19. Int'l Ass'n for Bridge & Structural Eng. (IABSE) Conf., Chicago. <http://www.wcdm.org/> (10/07)

**18. Symposium on Seismic Sources (Hazards) in the Central U.S.: Is New Madrid All There Is? New Orleans, LA.** Date tentative. See page 2. (5/08)

22-24. 9th Workshop on 3-D Modeling of Seis. Wave Generation, Propagation, & Inversion, Trieste, Italy. [agenda.ictp.it/smr.php?1965](http://agenda.ictp.it/smr.php?1965) (12/07)

23-27. SEAOC Convention, Kohala Coast, Big Island, Hawaii. <http://www.seaoc.org/events.html> (2/08)

#### OCTOBER

12-17. 14th World Conf. on EQ Eng., Beijing, China. Info: [www.14wcee.org](http://www.14wcee.org) (12/05, 6/07, 7/07, 9/07, 4/08)

22-24. 3rd Conf. on EQ Hazards in the Eastern SF Bay, Hayward, Cal. State University East Bay. Info: [www.consrv.ca.gov/cgs/news/eastbayconference.htm](http://www.consrv.ca.gov/cgs/news/eastbayconference.htm) (1/08)

14-17. Deep Foundations Institute Annual Conf., New York City. [www.deepfoundations08.org](http://www.deepfoundations08.org) (12/07)

#### 2009

#### FEBRUARY

11-14. EERI Annual Meeting, Salt Lake City. Info: [www.eeri.org](http://www.eeri.org) (3/08)

#### JUNE

**22-24. EQ & Tsunami Conf.**, Istanbul, Turkey. See page 5. (5/08)

#### SEPTEMBER

13-17. 10th Int'l Conf. on Structural Safety & Reliability (ICOSSAR2009), Osaka, Japan. Info: [www.sc.kutc.kansai-u.ac.jp/icossar2009](http://www.sc.kutc.kansai-u.ac.jp/icossar2009) (2/08)

#### 2010

#### MAY

23-29. 5th Int'l Conf. on Recent Advances in Geotech. EQ Eng. & Soil Dynamics & Symposium in Honor of I. M. Idriss, San Diego, CA. Info: [prakash@mst.edu](mailto:prakash@mst.edu) (4/08)

#### JULY

25-29. 9th U.S. Nat'l & 10th Canadian Conf. on EQ Eng.: Reaching Beyond Borders, Westin Harbour Castle Hotel, Toronto, Ontario, CANADA (2/08)

## NEES News

### NEES Annual Meeting

NEES's 2008 Annual Meeting will be held June 18-20, 2008, in Portland, Oregon, with the theme, "The Value of Earthquake Engineering Research." In addition to the oral and poster sessions, program highlights of plenary sessions include the following presentations: The Revised NEHRP Strategic Plan, Implementing Research in the Built Environment, Research Implementations, NEES International Collaborations, Integrating NEESit Tools and Services with Research and Education, and Industry Research Programs. Topics of breakout sessions include hybrid simulation and writing proposals to use NEES facilities. For more information and to register, visit [www.nees.org/Education/AnnualMeeting](http://www.nees.org/Education/AnnualMeeting).

## News of the Profession

### NEHRP News

#### Joint Venture Website

A joint venture has been formed to conduct the National Institute of Standards and Technology (NIST)-funded National Earthquake Hazards Reduction Program (NEHRP)

Earthquake Structural and Engineering Research Contract, which was awarded in September 2007. A website has been established to provide ongoing information regarding this joint venture, which was formed by the Applied Technology Council and the Consortium of Universities for Research in Earthquake Engineering, in cooperation with the Mid-America Earthquake Center, MCEER, and the Pacific Earthquake Engineering Research Center.

To find out more about how the NEHRP Consultants Joint Venture will conduct broad problem-focused research, knowledge development, synthesis, and technology transfer programs for NIST, visit <http://nehrc-consultants.org/>.

#### NEHRP Annual Report

The NEHRP *Annual Report* to Congress is available online from [www.nehrp.gov](http://www.nehrp.gov). It describes the activities and achievements of the NEHRP agencies and their partners during 2007 in building on past results and advancing earthquake safety nationwide. The new NEHRP Strategic Plan that is in the final stages of development serves as the framework for this report. The Strategic Plan defines three program goals and standards for the operation of

NEHRP facilities for the five-year planning period (FY 2008–2012). In this report, NEHRP accomplishments for 2007 are described for each of the Strategic Plan objectives and facility operations, providing a baseline as NEHRP enters the implementation phase of the planning cycle. Future annual reports will follow this framework, providing a straightforward means of evaluating NEHRP yearly performance.

## Publications

### NSEL Report Series

A new Newmark Structural Engineering Laboratory (NSEL) Report Series is intended to disseminate research conducted in the laboratory. The seven reports published in the series so far address topics such as structural health monitoring, concrete girders, probabilistic seismic assessment of interacting systems, hybrid simulation, real-time hybrid testing, and mitigation for critical urban infrastructure systems. Each report is available from <http://cee.uiuc.edu/nsel/default.htm>. Additionally, you can sign up from [https://www.ideals.uiuc.edu/feed/rss\\_2.0/2142/3520](https://www.ideals.uiuc.edu/feed/rss_2.0/2142/3520) for an RSS feed to be automatically notified when a new report in the series is published.



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