

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE NEWSLETTER

Editor Mark Yashinsky
LFE Insert Editor Sarah Nathe
Associate Editor Gerald Brady
Editorial Assistant Eloise Gilland

Earthquake Engineering
Research Institute
499 14th Street, Suite 320
Oakland, California 94612-1934
Phone: 510/451-0905
Fax: 510/451-5411
E-mail: eeri@eeri.org
Web site: <http://www.eeri.org>

ISSN 0270-8337

Reproduction with attribution is permitted.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

PRESIDENT

L. Thomas Tobin

PAST PRESIDENT

Farzad Naeim

VICE PRESIDENT

David A. Friedman

SECRETARY-TREASURER

Marshall Lew

BOARD OF DIRECTORS

William A. Anderson

Reginald DesRoches

David A. Friedman

Marshall Lew

Joseph Maffei

Farzad Naeim

Ellen M. Rathje

L. Thomas Tobin

Ivan Wong

EXECUTIVE DIRECTOR

Jay Berger

Learning from Earthquakes

Update on Japan Reconnaissance

In response to the M9.0 Tohoku-Oki, Japan, earthquake and tsunami of March 11, EERI sent researchers to work with a number of joint U.S./Japan reconnaissance teams. They were organized by EERI, the Disaster Prevention Research Institute (DPRI) at Kyoto University, the Architectural Institute of Japan, the Japan Association for Earthquake Engineering, the Tokyo Institute of Technology, and the Institute of Social Safety Science. The U.S. National Science Foundation is providing partial travel support for some of the academic researchers. Professor Jack Moehle, University of California Berkeley, serves as chair of EERI's Earthquake Reconnaissance Research Advisory Committee and is leading the overall LFE investigation of this earthquake and tsunami, along with Masayoshi Nakashima and Jim Mori of DPRI.

continued on page 3



An official in Ootshuchi (Iwate Prefecture) briefs international team members on a recovery proposal (photo: J. Wilson).

GEO-CAN Assessment of Christchurch

As promised in the June *EERI Newsletter* (page 1), EERI members now have the opportunity to assess damage caused by the recent earthquakes in Christchurch, New Zealand, by using an innovative online tool to analyze imagery — the Tomnod Disaster Mapper. This cooperative effort is the result of EERI's partnership in GEO-CAN (Global Earth Observation-Catastrophe Assessment Network). The mapper was developed by Tomnod (www.tomnod.com) with ImageCat (www.imagecatinc.com), the creator and major partner of GEO-CAN.

Simple by design, the mapper streamlines the GEO-CAN image analysis process. To participate, visit <http://tomnod.com/geocan/?source=eeri>. You will be able to search for, label, and quantify damage in buildings and areas of liquefaction. Each participant adds a small piece to the complete picture, resulting in a crowd-sourced solution that is obtained quickly, accurately, and easily through the web-based portal. The mapper leverages existing commercial cloud infrastructure to manage massive datasets and corresponding metadata with structured, searchable databases.

The platform includes training examples of the various damage states specific to the Christchurch event. You can take the tutorial, and once completed,

continued on page 3

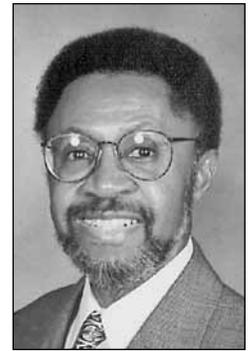
News of the Institute

William Anderson Oral History

The oral history of William A. Anderson, a scholar-pioneer in the field of sociology, is available online at <http://www.eeri.org/site/publications-etc/oral-history>. The interviewer for the 19th volume in the EERI Oral History Series was Robert Reitherman. A printed version will be mailed to most EERI members in July. The book offers insight into Anderson's roles as a supportive colleague and mentor and an architect of the current U.S. science and engineering research infrastructure.

Anderson began his career at Ohio State University, moved on to Arizona State, and then served more than two decades in Washington, D.C., at the National Science Foundation, the World Bank, and the National Academies. In her personal introduction, Kathleen Tierney writes, "For decades, Bill advocated for multidisciplinary, integrated research on hazards and disasters, and he played a pivotal role in bringing about that integration...due in no small measure to his persistence and coalition-building skills...His career was launched through the study not only of major disasters like the 1964 Alaska earthquake, but also through research on the civil unrest that swept U.S. cities,

campus protests against the Vietnam war, and movements sparked by the demise of colonialism... Bill was a visionary and institution builder within the organizations he joined..."



William Anderson

Anderson is currently a member of the EERI Board of Directors. Additional copies of his oral history will be available to purchase for \$15 from https://www.eeri.org/cds_publications/catalog/.

Hayward Fault Scenario 2010 Update

The online version of *The Coming Bay Area Earthquake: 2010 Update of Scenario for a Magnitude 7.0 Earthquake on the Hayward Fault* is available for download (a 3.5MB PDF) from <http://www.eerinc.org/?p=856>. A project of the EERI Northern California Chapter, the update summarizes significant points from the 1996 report and then provides new information. Where possible, original chapter authors were interviewed and many assisted in updating their contributions.

The 2010 update of the scenario is a call to action for the San Francisco Bay Area. A similar theme emerges from each area of concern; significant progress has been made, but many opportunities remain for more strategic loss reduction. As the document states, "Ten years into the new century, we have not yet reached an acceptable level of seismic safety, and it is clearly necessary for earthquake professionals to continue their advocacy. But they must take their message beyond

enclosed spaces out to the stakeholders in whatever arena they can be found. Every private property owner in the Bay Area must come to understand the losses each and all of us will face, and how those impacts will harm the quality of life we enjoy in this unique part of the world."

For more information or if you have questions about this activity, visit the Hayward Fault Scenario web page (http://www.eerinc.org/?page_id=55) or contact chapter President Janiele Maffei (maffei@calquake.com), who is leading this effort.

Subscribing Member News

CEA New Subscribing Member

EERI is pleased to announce that the California Earthquake Authority (CEA) has become an EERI Gold Subscribing Member. CEA is a publicly managed, largely privately funded organization that provides catastrophic residential earthquake insurance and encourages Californians to reduce their risk of earthquake loss. In carrying out this mission, the CEA:

- uses the best science available to provide actuarially sound

insurance coverage, while striving to make policies accessible and competitively priced,

- offers a range of coverage options available through participating insurance companies,
- maintains the appropriate financial strength to meet its claims-paying obligations,
- ensures claims are handled promptly, fairly and consistently,
- educates residents to make informed decisions regarding earthquake preparedness and the purchase of earthquake insurance, and

- minimizes potential damage by encouraging Californians to retrofit their homes and utilize other proven methods to mitigate loss.

EERI member Janiele Maffei is CEA's new chief mitigation officer, responsible for educational outreach efforts, managing statewide residential retrofit programs, collaborating with research institutions, and leading efforts to develop financial incentives to encourage seismic risk mitigation.

For more information, visit www.earthquakeauthority.com.

Japan Reconnaissance *continued from page 1*

EERI's NSF RAPID grant covers U.S. participation in the following three areas: performance of bridges led by Ian Buckle of the University of Nevada Reno and jointly organized with FHWA (co-led by Kazuhiko Kawashima, Tokyo Tech); engineered buildings led by John Wallace of UCLA (co-led by Hitoshi Shiohara, University of Tokyo); and government and community response led by Stephanie Chang of the University of British Columbia (co-led by Shigeo Tatsuki, Doshisha University).

For a complete listing of team members, visit <http://www.eqclearinghouse.org/2011-03-11-sendai/>, where they have posted initial observations and photos.

Online reports in the style of newsletter inserts will be prepared by each theme group and by researchers investigating other issues, including seismology (led by Mori), the tsunami (coordinated by Lori Dengler of Humboldt State University and Dan Cox of Oregon State University, currently on sabbatical in Japan), and geotechnical effects (coordinated by GEER team leaders Nick Sitar of UC Berkeley and Ross Boulanger of UC Davis). These reports are planned for publishing online in July, August, and September. A summary insert, extracting material from these reports, will be published in the *EERI Newsletter*. Preliminary discussions are also underway for a more complete record as a special issue of *Earthquake Spectra*. EERI members will receive notifications about these publications as they are released.

GEO-CAN Assessment *continued from page 1*

sign up. You will be assigned a grid. Multiple people will be assigned to the same grids, so that comparisons can be made about the accuracy of the analyses. This professional development opportunity will improve your skills in remote sensing analysis and will help determine the potential of high-resolution aerial imagery and the technology's future applications in damage assessment.

In addition, geotechnical engineers will be contacted to participate in a liquefaction study. Remote sensing experts will be invited to analyze satellite imagery (as opposed to the high-resolution aerial imagery) to determine differences in the assessments. If you would be interested in participating, contact Marjorie Greene at mgreene@eeri.org.

Update on Christchurch Earthquake Swarm

Several parallel efforts involving EERI members and affiliates are still ongoing or proposed to learn from and assist in the recovery from the September 4, 2010, M7.1 Darfield earthquake, the February 22, 2011, M6.1 Christchurch aftershock, and more recent significant aftershocks up to M6.0 on June 13.

EERI Special Projects Manager Marjorie Greene would like to ensure that all EERI members and their contacts share and coordinate their plans. She requests that EERI

members and affiliates who are traveling to Christchurch, or working on recovery projects remotely, share their travel itinerary and scope of work by e-mailing mgreene@eeri.org or posting a notice on the Christchurch Clearinghouse at <http://www.eqclearinghouse.org/2011-02-22-christchurch/>. In addition, please notify New Zealand colleagues by contacting Bruce Deam at the Christchurch Earthquake Clearinghouse via <http://nzeng.info/ctc/> and sending him a short summary of

News of the Institute

Honors Committee Seeks Nominations

EERI's Honors Committee is charged with developing recommendations for several awards. The committee greatly depends on nominations submitted by the members of the Institute and seeks help in identifying worthy members whose contributions should be recognized.

Please nominate candidates for the George W. Housner Medal, the Alfred Alquist Special Recognition Award, and Honorary Membership, as well as authors who deserve the 2010 Outstanding Paper award for *Earthquake Spectra*.

All nominations should be accompanied by a brief justification, and must be received by **October 1, 2011**, in order for the Honors Committee to complete deliberations and forward its recommendations to the Board of Directors. Send your nominations to the EERI office at eeri@eeri.org. Past awardees are listed on page ii of the *EERI Roster*. Complete descriptions of each award can be found at <http://www.eeri.org/site/awards/honors-awards>.

All awards will be presented at EERI's Annual Meeting in Memphis, Tennessee, in April 2012.

your plans and itinerary.

Efforts led by colleagues from the University of Canterbury, the University of Auckland, the New Zealand Society of Earthquake Engineering, GNS Science, and others to document hazards and performance are continuing, but in many cases are gradually scaling down because of limited funds. They would greatly appreciate assistance in follow-up documentation from EERI members and affiliates who have particular skills, perhaps in cooperation with others or where others left off.

Summary of the Minutes of the Board of Directors Meeting of February 9, 2011

Call to order: President Thomas Tobin called the meeting to order. Present were Directors William Anderson, Reginald DesRoches, David Friedman, Marshall Lew, Farzad Naeim, Ellen Rathje, and Ivan Wong, Executive Director Jay Berger, and Publications Manager Eloise Gilland. Director Joseph Maffei was unable to attend. FEMA Regional Earthquake Program Manager Wendy Phillips was also present.

Tobin expressed thanks to Past President Naeim for his hard work over the previous two years and said he would keep Naeim deeply involved, as it was a daunting task to follow him. New Directors Friedman and Wong were welcomed. Tobin introduced Phillips to the Board.

Executive Committee Report: Naeim explained that the Executive Committee meets via conference call monthly with some exceptions, in order to give Berger counsel and advice; it is not intended to exclude the rest of the Board from involvement in decisions.

Washington, D.C., Trip: Naeim reported that during a mid-January trip to Washington, D.C., he, Berger, Greene, Moehle, and Anderson visited the U.S. Geological Survey, the National Institute of Standards and Technology, the National Science Foundation, and the World Bank. Moehle was included because he is chair of the ad hoc committee that is supporting development of the next Learning from Earthquakes proposal to be submitted to NSF.

The group met with about twenty staff members at the World Bank, as arranged by Sahar Safaie, an EERI member and a disaster risk management specialist for the Global Facility for Disaster Reduction and Recovery within the World Bank.

Selection of Vice President: Tobin noted that the duties of the Vice President are to serve as back-up to the President, if necessary, and to serve on the Executive Committee. Tobin nominated David Friedman, indicating he would find his counsel valuable regarding strategic matters. The Board unanimously approved David Friedman to serve as Vice President.

Secretary/Treasurer's Report
Overview of Revenue and Expense Reports: Lew observed that there had been a positive outcome for the year, with revenue exceeding expenses by \$126,830, which is especially good considering the projected 2010 budget deficit of \$70,000.

Investment Report and Overview: Lew reported that EERI investments did well in 2010, having recovered substantially from losses in previous years, although the losses were only on paper, as the investment instruments have guaranteed ending values.

The combined balance sheet showed positive revenue for Association Programs of \$126,830 as of December 31, 2010. Adding this to the opening fund balance for Association Programs (January 1, 2010) of \$257,206 results in a total fund balance of \$384,037. The Endowment Program's total assets on December 31, 2010, were \$1,583,555.

2011 Budget: Lew informed the Board that because it decided not to raise dues for the third consecutive year and because LFE grant funds from NSF were expended in 2010 for Haiti and Chile reconnaissance, the projected budget deficit for 2011 is \$204,000. The 2011 budget is a conservative, worst-case scenario on the income side, assuming no new grants not already in hand, but it is realistic on projected expenses. The Board can look at the budget again midyear and perhaps evaluate the structural side of the deficit next year. EERI will be delivering more service with the

same dues structure while costs are going up. The Board unanimously approved the budget for 2011.

Lew will form a Finance Committee for approval at the next Board meeting, for the purpose of providing additional oversight of budgets and investments and reviewing expenditure policies of the Endowment funds.

NEHRP Reauthorization: Berger said that NEHRP Reauthorization was passed by the House of Representatives in 2010 but not by the Senate, so it must come up again in the new Congress.

FEMA Earthquake Program: The Board reviewed the copy of the letter of January 14 sent to FEMA Administrator Craig Fugate, objecting to the proposed \$1.2M budget cut to the FEMA Earthquake Program. The proposed cuts are focused on the State Assistance Program and the Next Generation Performance-Based Seismic Design Guidelines project.

2014 10NCEE: Berger said that EERI Controller Sonya Hollenbeck is working with a meeting planning consultant on venue options in Anchorage, Alaska, for the 2014 10th National Conference on Earthquake Engineering. 2014 is the 50th anniversary of the 1964 great Alaskan earthquake and tsunami.

EERI Website: Berger reported that EERI's Website/IT Manager Gabe Mulford is working on a plan for improving EERI's website, including resources needed, with support from the IT Committee. The Board unanimously approved a motion for Berger to take action for EERI to have a state-of-the-art website, including an advocacy platform and upgraded members-only area, with a content management system and necessary tech support, understanding that he may have to revise the budget before the next Board meeting.

Audit Update: Berger reported that EERI's annual audit was completed in January. Initial feedback was that there will be no findings and one

recommendation for improved practice on how to categorize items. Friedman said that boards often renew auditing contracts year by year. Approval of the 2011 auditor will be on the next Board meeting agenda.

LFE Program and NSF Proposal:

Anderson said that EERI could develop an integrated LFE program with different aspects funded by NSF and the World Bank. The NSF LFE proposal advisory committee headed by Moehle includes Rathje, John Hooper, John Wallace, Ron Eguchi, Rob Olshansky, and Tricia Wachtendorf. Greene will send the Board a copy of the LFE proposal.

Haiti status report: Greene reported that a subcommittee comprised of Desroches, Wassim Ghannoum, Fred Krimgold, Craig Cole, and Martin Hammer is having preliminary discussions with Gerard Jean-Baptiste of the Collège National des Ingénieurs et des Architectes (CNIA) in Haiti about what kind of support EERI could provide.

Greene said that Fred Krimgold is working with the National Institute of Building Sciences and others on a proposal to build a multimillion-dollar natural hazards center at Quisqueya University that would incorporate training, capacity building, and professional exchanges as well as an office for EERI.

Strategic Plan: The Board discussed progress since 2006 on the objectives under each of the four strategic initiatives, as follows:

1. Enhance and expand educational materials and technical programs: The World Housing Encyclopedia has become a worldwide resource. The increase in the impact factor of *Spectra* has been good for academics. Berger said that a new publication series is needed to revitalize EERI's publications program.
2. Outreach and Advocacy: EERI made some progress in influencing various stakeholders and educating policy makers about

earthquake hazards. EERI supported the activities of the Concrete Coalition and the development and use of the scenarios for the Seattle, New Madrid, and Hayward faults.

3. Maintain a strong program of international activities: EERI has shared information with international partners and, through the development of tutorials, has provided a mechanism for transferring information to other countries. Anderson said that an EERI partnership with the World Bank could help compensate for the fact that EERI has few champions in the most vulnerable developing countries.
4. Expand and broaden membership and financial resource base: At its December 2010 meeting, the Board created a new Resource Development Committee to complement the Endowment Development Committee.

On a future Board meeting agenda, Tobin will include the creation of an annual plan to implement the Strategic Plan.

Executive Director's Objectives:

Board endorsed Berger's list of revised performance objectives for 2011 and thanked him for accomplishing the difficult task of setting objectives.

Regional and Student Chapter Development

Student Chapters: Berger said the Student Leadership Council (SLC) will consist of the presidents of the student chapters, who will meet regularly to share program ideas, run the student design competition, and host a summer workshop/conference.

Regional chapters: The Board reviewed Wong's list of ideas for developing an active regional EERI chapter, based on his experience with the Northern California chapter.

Housner Fellows Program: The Board received a summary of the EERI Housner Fellow Program recommendations submitted by the

Housner Charter Fellows Committee, chaired by Bill Iwan and including Friedman, Greene, Tobin, Arrietta Chakos, Simin Naaseh, Chris Poland, and Susan Tubbesing. The Board endorsed the plan to move ahead with selecting the first class of Housner Fellows.

Nominations Committee: The Board unanimously passed a motion to approve the people selected by the chair, Jack Moehle, to serve on the Nominating Committee and to have the committee consult with the executive director and president during their deliberations. In addition to Moehle, the members of the committee are Bill Anderson, Marshall Lew, Ron Mayes (2011 member), and Sharon Wood.

ANSS representative: EERI has three representatives on the national steering committee of the Advanced National Seismic System, covering the geotechnical, research, and structures areas. John Wallace, the current EERI structural representative, is rotating off the committee. The Board approved Greg Deierlein to replace Wallace.

Tobin adjourned the meeting at 5:25 p.m.

Call for Papers

Conference in India

The International Conference on Earthquake Analysis & Design of Structures will be held December 1-3, 2011, in Coimbatore, India. It is being organized by the Department of Civil Engineering of the PSG College of Technology in collaboration with the University of Alabama at Tuscaloosa.

Authors are invited to submit abstracts (approximately 500 words) via email to eqads2011@gapps.psgtech.ac.in on or before July 5, 2011.

For more information, visit <http://www.psgtech.edu/eqads2011/>.

News of the Profession

4th UniQ-UB/MCEER Haiti Seminar Series

The fourth in a series of earthquake engineering seminars presented by Haiti's Quisqueya University (UniQ) and the University at Buffalo's (UB) MCEER (an EERI Subscribing Member) will offer nine programs that provide in-depth instruction on seismic design practices. Based on Haitian construction practices, programs include lectures, hands-on exercises, design examples and in-field demonstrations. Seminars will be held August 1-25, 2011, at UniQ in Port-au-Prince.

For more information on the third series, see page 5 of the January *Newsletter* and page 3 of the May *Newsletter*. Six of the programs held in previous seminars have been expanded to provide more class time and illustrative examples. The August seminar will feature three new programs: Simplified Seismic Analysis of Buildings in Haiti, Seismic Design of Steel Buildings in Haiti, and Geotechnical Earthquake Engineering and Seismic Design of Foundation in Haiti.

Returning instructors are André Filiatrault, M.EERI, and Pierre Fouché of UB; Wassim Ghannoum, M.EERI, University of Texas at Austin; J. Eric Karsh, Equilibrium Consulting, Vancouver; and André Bergeron, Engineers without Borders, Montreal. They will be joined by new team members Constantin Christopoulos, M.EERI, University of Toronto, and Denis Leboeuf, M.EERI, Université Laval, Québec.

The impact of the seminar program can already be seen in new buildings on the Quisqueya University campus and in repairs to a main building of the Campus du Centre Professionnel Canado-Haïtien, both in Port-au-Prince.

For more information and to register, visit: <http://mceer.buffalo.edu/education/UniQ/>.

NEES News

NEEShub Tools Available

The NEEShub (<http://nees.org>) provides access to various computational simulation tools for the earthquake engineering community. These tools may be run in the NEEShub without download, facilitating their use and in many cases improving their performance. Some of the tools are also available for download. Below is a list of community-contributed tools available on the NEEShub along with their contributors. Each tool can be accessed at <http://nees.org/resources/tools/>. For information about contributing your simulation tool to the NEEShub, please contact Ellen Rathje (e.rathje@mail.utexas.edu) or Shirley Dyke (sdyke@purdue.edu).



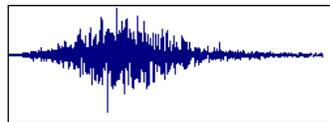
OPENSEES

OpenSees Laboratory (contributed by Frank McKenna and Christopher McGann): Allows for OpenSees simulations to be performed within the NEEShub.

Building tcl (Silvia Mazzoni): Tools to develop tcl code for OpenSees models of building frames.

nvStructural — COMING SOON (Mehmet Bektas): Advanced nonlinear structural analysis software. GUI for OpenSees. Educational version.

OpenSees Navigator (Andreas Schellenberg, Frank McKenna, and Gregory P. Rodgers): Graphical user interface to develop models and tcl code for OpenSees runs.

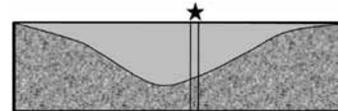


ENGINEERING SEISMOLOGY/ GROUND MOTIONS

EQTools — COMING SOON (Finley Charney): Search through earthquake records, perform frequency and site response analyses.

PulseSnapper (Jian Zhang): Identifies pulse amplitude and period in near-fault ground motions.

SigmaSpectra (Albert Kottke and Ellen Rathje): Selects and scales ground motions to fit a target response spectrum.



GEOTECHNICAL ENGINEERING

DeepSoil (Youssef Hashash):

One-dimensional, nonlinear site response analysis.

Strata (Albert Kottke and Ellen Rathje): One-dimensional, equivalent-linear site response analysis with time series or RVT.



STRUCTURAL ENGINEERING

EPETO and EPET1 (Valentin Shustov): Analysis of virtual buildings with and without earthquake protectors.

Frame3DD (Henri Gavin): Analysis of 2D and 3D frame structures.

LARZ 2D (R. Lopez, M. Saïdi, S. Otani, and M. Sozen): Nonlinear analysis of RC structures.

NonlinPro — COMING SOON (Finley Charney): Free vibration, and static and dynamic analysis of frame structures using DRAIN-2DX.

SAPWood (John van de Lindt and S. Pei): Seismic analysis for wood frame structures.

System Identification Toolbox — COMING SOON (Sherif Beskhyroun): GUI software for identification of modal parameters.

ZEUS-NL (DS Moon, B. Gencturk, A. Elnashai, V. Papanikolaou, and DH Lee): Nonlinear analysis of 2D and 3D structures

News of the Profession

Applegate Named USGS Associate Director for Hazards

U.S. Geological Survey Director Marcia McNutt recently announced that David Applegate has been selected as the agency's associate director for Natural Hazards.

Applegate came to the USGS in 2004 as the first senior science advisor for earthquake and geologic hazards. In that capacity, he has provided oversight of the earthquake hazards, global seismographic network, and geomagnetism programs. Since 2006, Applegate has chaired the National Science and Technology Council's Subcommittee on Disaster Reduction, an interagency body providing guidance to the White House Office of Science and Technology Policy. He is widely recognized for his passion and ability to communicate science in terms that nontechnical audiences can understand. He is an invaluable scientific voice for media, policy-makers, and the public in the face of natural disasters, and received the USGS Shoemaker Award for Lifetime Achievement in Communication in 2010.

Applegate received degrees in geology from Yale University and the Massachusetts Institute of Technology (a B.S. and Ph.D., respectively). He currently is an adjunct full professor at the University of Utah's Department of Geology and Geophysics.

Applegate played a central role in establishing the USGS Coalition, an alliance of 71 organizations, including EERI, united by a commitment to the continued vitality of the USGS geological, hydrological, and mapping programs. The Coalition supports increased federal investment in essential USGS programs.

For more information, visit <http://www.usgscoalition.org/>.

CALENDAR

The issue containing the first appearance is indicated at the entry's end. Items listed for the first time are shown in bold.

2011

JULY

4-6. 8th European Conf. on Structural Dynamics (EURODYN 2011), Leuven, Belgium. Info: www.eurodyn2011.org (6/10)

8. SEAOC Webinar. <http://a3.acteva.com/orderbooking/go/SEAOCwebinar> (6/11)

AUGUST

17-19. Estructuras 2011. 11th Bi-annual Meeting of the Costa Rica Ass'n of Structural & EQ Eng., San Jose, Costa Rica. Info: www.eventosacies.com (7/11)

23-26. 4th Int'l IASPEI/IAEE Symp. on Effects of Surface Geology on Seismic Motion (ESG4), UC Santa Barbara. esg4.eri.ucsb.edu/ (2/11)

30-Sept. 1. 3rd Int'l Workshop on Perf., Protect'n, & Strengthening of Structures under Extreme Loading (Protect 2011), Lugano, Switzerland. www.protect2011.supsi.ch (8/10)

SEPTEMBER

7-9. 8th Int'l Conf on EQ-Resistant Engineering Structures (ERES 2011), Chianciano Terme, Italy. <http://www.wessex.ac.uk/eres2011news5.htm> (5/11)

17-18. Int'l Symp. on Disaster Simulation and Structural Safety, Kobe, Japan. <http://www.u-hyogo.ac.jp/sim/events/ds11/> (6/11)

18-23. 1st Int'l Conf. on EQs & Structures (ICEAS-2011), Seoul, S. Korea. www.asem11.cti3.com/ (12/10, 1/11)

19-24. AEG Annual Meeting, Anchorage, Alaska. www.aegweb.org (5/11)

21-24. SEAOC Convention, Las Vegas, NV. convention.seaoc.org/ (2/11)

25-29. Dam Safety 2011, Washington, D.C. www.damsafety.org/ (4/11)

OCTOBER

2-6. 7th World Cong. Joints, Bear-

ings. & Seis. Sys./Conc. Structs, Las Vegas, NV. www.ijbrc.org/ (8/10)

10-12. CTBUH 2011, Seoul, S. Korea. <http://www.ctbuh2011.org/ctbuh/ctbuh.asp> (3/11)

11-14. Turkish EQ Eng./Seis. Conf., Ankara. www.tdmd.org.tr (3/11)

18-21. Deep Foundations Inst. (DFI) Annual Conference, Boston, MA. www.dfi.org/conferencedetail.asp?id=172 (12/10, 2/11)

DECEMBER

1-3. Int'l Conf. on EQ Analysis & Design of Structures, Coimbatore, India. <http://www.psgtech.edu/eqads2011/>. See page 5. (6/11, 7/11)

11-15. 5th Int'l Conf. Structural Health Monitoring of Intelligent Infrastructure (SHMII-5), Cancun, Mexico. www.shmii.unam.mx (4/11)

2012

JANUARY

9-11. Behavior of Steel Structures in Seismic Areas (STESSA 2012), Santiago, Chile. www.ingcivil.uchile.cl/stessa2012 (11/10)

FEBRUARY

15-18. 4th Int'l Conf. Grout/Deep Mix, New Orleans, LA. www.dfi.org/conferencedetail.asp?id=163 (5/10)

APRIL

10-14. EERI Annual Meeting/Nat'l EQ Conf., Memphis, TN. www.eeri.org/site/meetings/2012-annual-meeting (5/11)

MAY

28-30. 2nd Int'l Conf. PBD in EQ Geotech Eng., Taormina, Italy. <http://addon.webforum.com/issmge/view.asp?EventID=2160> (5/11)

JULY

8-12. 6th Int'l Conf. on Bridge Maintenance, Safety and Management (IABMAS 2012), Lake Como, Italy. www.iabmas2012.org (12/10, 1/11)

SEPTEMBER

24-28. 15th World Conf. on EQ Eng. (15WCEE), Lisbon, Portugal. www.15wcee.org (8/10)

OCTOBER

3-6. Symp. on Life-Cycle Civil Eng. (IALCCE), Vienna, Austria. www.ialcce2012.org (12/10, 1/11)



**EARTHQUAKE ENGINEERING
RESEARCH INSTITUTE**
499 14th Street, Suite 320
Oakland, CA 94612-1934
ADDRESS SERVICE REQUESTED

EERI Newsletter, July 2011 Volume 45, Number 7

News of the Institute

EERI Continues Internship Program

After two successful rounds, EERI recently started its third rotation of an internship program with three interns chosen from a strong pool of candidates.

The Institute would like to introduce Michael Germeraad, Chiara McKenney, and Bobby Rodrock. Michael graduated from UC San Diego and will begin a dual master's program at Cal Poly in planning and engineering in the fall. Chiara is a current master's student in civil engineering at UC Davis. They will be working together on updating the World Housing Encyclopedia and developing the Mitigation Center.



New EERI interns Bobby Rodrock, Chiara McKenney, and Michael Germeraad.

The first EERI intern in the field of public policy, Bobby is a master's student in UC Berkeley's Goldman School and will be working under the supervision of Arrietta Chakos, chair of EERI's Public Policy Advisory Committee. He is working

on clarifying EERI's public policy priorities and the advocacy portion of the website.

Working on these projects offers Michael, Chiara, and Bobby relevant professional experience and greatly benefits EERI.

Publication

U.S./China Symposium Report

A report on the meetings and field trip that took place October 19 to 21, 2010, during the First China/USA Symposium for the Advancement of Earthquake Sciences and Hazard

Mitigation Practices is available to download from <http://www.eeri.org/site/meetings/us-china-symposium>. For more information about the symposium, see page 5 of the December 2010 *Newsletter*.

The meeting summaries cover such issues as siting, building design, building codes, hazard risk reduc-

tion, emergency preparedness, and long-term recovery after major events, as well as collaboration possibilities and areas for future research of common interest among the many participating organizations. EERI administered a grant from the National Science Foundation that provided travel support for some of the U.S. participants.

Subscribing Member News

CSI's New Website

EERI Diamond Subscribing Member Computers & Structures, Inc. (CSI), recently announced its new website, www.csiberkeley.com, featuring enhanced product pages, a searchable

knowledge base of technical software information, updated graphics, and an updated project portfolio. The knowledge base offers access to technical information about CSI software that is not available in the standard product documentation and addresses many of the questions commonly asked by users.

CSI's tutorial Watch & Learn videos are now all YouTube-based, and the Watch & Learn library contains dozens of free videos on how to use CSI software. The project portfolio features a wide range of design and analysis projects that have been completed by major engineering firms using CSI software.