



**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>

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**EARTHQUAKE ENGINEERING
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News of the Institute

Jay Berger to Become EERI Executive Director

EERI is pleased to announce that Jay Berger will join the Institute's management team on December 1, 2009, and will become executive director on February 1, 2010. He will work alongside Susan Tubbesing for two months before she retires at the end of January. As EERI's first full-time executive director, Susan has served with great distinction and dedication for 22 years.



Jay Berger

Looking forward to the opportunity to serve the EERI community, Jay brings over 20 years of professional experience and leadership in private and nonprofit organizations, as well as many years of volunteer service to grassroots and community organizations. Since early 2005, Jay has served as director of Experimental Site Operations for NEESinc, the management organization for the NSF-sponsored George E. Brown Jr. Network for Earthquake Engineering Simulation. During the NEES Operations start up, Jay, his staff, and volunteers from the earthquake engineering community developed a successful management program for the unique network of 15 university-housed earthquake engineering facilities. *continued on page 9*

2010 Annual Meeting to Envision Breakthroughs

The 2010 Annual Meeting Planning Committee, chaired by David Friedman of Forell/Elsesser Engineers, is developing a program that you are sure to find intriguing! After early sessions set forth a scenario for an M7.5 earthquake striking San Francisco in 2056, subsequent sessions will address the question of which breakthroughs are necessary to ensure that the damage is comparatively minimal, as described by the returning field reconnaissance team in the opening session. Speakers will explore the advances needed in engineering, earth science, public policy, research, and education. With the theme "Back from the Future," the meeting will be held February 3-6 at the Parc 55 Hotel in downtown San Francisco.

The meeting will end on an exhilarating note Saturday afternoon, when participants will cruise under the new eastern span of the San Francisco-Oakland Bay Bridge, with a presentation by Caltrans.

Watch for more details on other Annual Meeting sessions and activities in future newsletters, in the program brochure to be mailed in the fourth quarter, and by visiting the EERI web site.

2010 Annual Meeting field trip: a cruise under the new eastern span of the San Francisco-Oakland Bay Bridge (existing bridge far right).



News of the Institute

Special *Spectra* Issue on ShakeOut

The journal *Earthquake Spectra* will be publishing a special issue on the Great Southern California ShakeOut Scenario and Exercise of November 2008. Papers are invited on the earth science, engineering, and social science aspects of the scenario and its public and professional emergency response exercises. All papers should be submitted through the *Spectra* manuscript submission web page at <http://eqs.peerx-press.org/cgi-bin/main.plex>. When the manuscript is uploaded, authors must select "Special Issue on ShakeOut" from the drop down list for special issues.

The cover letter accompanying your manuscript should clearly indicate that the paper is being submitted for review and possible publication in this special issue. All papers to be reviewed must be received by January 1, 2010. We expect to have preliminary review decisions by June 1, 2010 and revised papers by November 1, 2010. The special volume should appear in print in May 2011. Papers without a clear link to the ShakeOut or not complying with *Spectra*'s instructions to authors will not be reviewed for this issue.

Questions regarding paper content or submission procedures should be directed to the guest editors for the special volume: Keith Porter (keith.porter@colorado.edu), Ken Hudnut (hudnut@usgs.gov), Sue Perry (scperry@usgs.gov), Mike Reichle (mreichle@sbcglobal.net), Charles Scawthorn (cscawthorn@att.net), or Anne Wein (awein@usgs.gov). Prospective authors are encouraged to send abstracts of their articles by email to the guest editors prior to formal manuscript submission so that the suitability of the paper topic for the special issue can be evaluated.

Student Membership Challenge

EERI has issued a challenge to student chapter faculty advisors to help the Institute attract more student members (both graduate and undergraduate). As members of EERI, faculty advisors recognize the many benefits of EERI membership and know that students are eligible to receive those benefits at a very low cost. To encourage as many students as possible to join, EERI has kicked off a New EERI Student Membership Contest between now and December 31. The student chapter that attracts the greatest number of new student members will be formally recognized at the Annual Meeting in San Francisco in February, and EERI will host a pizza party for the chapter early in the New Year. Advisors have been asked to let their students know that full student memberships are **\$50** with benefits that include the *Newsletter*, *Earthquake Spectra*, *Spectra Online*, reconnaissance reports, special publications, the *Roster*, and reduced registration fees for meetings, conferences, and seminars.

EERI also offers an e-student membership for **\$25** in which students receive only electronic access to the *Newsletter* and *Spectra*. This membership also includes reduced registration fees for meetings, conferences, and seminars. The e-student members do not receive other publications unless the costs are underwritten by outside funding sources.

EERI student memberships are a great deal and provide students with opportunities that serve them well in their careers. Good luck to chapters in attracting the most EERI student members at their universities! EERI encourages them to reach out to students in other disciplines, as membership is not limited to engineering students.

Deals for Graduating Students

EERI offers the following special deals to graduating student members:

- Each EERI Student Member who joins EERI as a Young Professional within 12 months of graduation is eligible to receive a coupon from Platinum Subscribing Member Computers and Structures that is good for an 80% discount on any CSI software products — up to a limit of \$10,000! The coupon may be redeemed anytime within two years of enrollment as an EERI Young Professional Member or Regular Member. The coupons are not transferable and may be redeemed only by Young Professional Members and their employers.
- Each graduating Student Member who signs up as a Young Professional Member gets the first year of membership absolutely **free!** To download an application, visit http://www.eeri.org/site/images/members/forms/2008_stu2yp_app.doc. Dues the following year will be only half the Young Professional rate, followed by three years at the full rate, which is a bargain at just half of Regular Member dues.

Distinguished Lecturer Abrahamson in London

EERI is pleased to announce that the Society for Earthquake and Civil Engineering Dynamics is supporting the travel of EERI's 2009 Distinguished Lecturer, Norman Abrahamson, to present his lecture at a SECED meeting on January 27, 2010, in London at the Institution of Civil Engineers. Abrahamson's lecture is entitled "The State of the Practice of Seismic Hazard Analysis: From the Good to the Bad." There is no charge to attend. For more information, visit <http://www.seced.org.uk>.

News of the Institute

RFP for Innovative Projects

The EERI Special Projects and Initiatives (SPI) Committee is currently soliciting ideas for one or two new projects to be supported in the coming year. The committee's charge is to select innovative projects annually to be supported by EERI's Endowment Fund. The committee selects projects (for approval by the EERI Board of Directors) that recognize the multidisciplinary challenge of earthquake risk reduction and the broad geographic and professional composition of EERI's membership. The SPI Committee's intention is to fund unique seed projects that will grow into larger ventures, supported in part by EERI's partner organizations in promoting earthquake risk reduction. The committee is particularly interested in projects that fall outside the scope of other sponsors of earthquake engineering research.

Projects supported by the Fund should identify gaps in research, improve application and practice, and facilitate public policy that effec-

tively reduces earthquake risks. Projects should stimulate the mobilization of intellectual and financial resources to address one or more of the following critical issues in earthquake risk reduction:

- fostering greater interaction between disciplines;
- improving expertise within the community;
- increasing the amount and quality of research;
- encouraging the transfer of research results through improved codes, design standards, and construction practices;
- heightening the priority of earthquake risk reduction among policy makers, building owners, the technical community and the general public; and
- developing cooperative relationships with public and private funding sources.

The committee will work with the proposer to develop the most promising ideas into projects. If funded, the person proposing the project will become the principal investigator, unless this person recommends someone else (see below).

To submit an idea, prepare a one- or two-page proposal using the following format: (1) title, (2) your name and contact information, (3) recommended principal investigator and contact information, if not you, (4) objective, (5) product(s), (6) audience, (7) approach, (8) schedule, (9) budget (\$50,000 is available to support one or two projects), (10) suggested person to chair the project oversight committee, which provides direction, (11) suggested committee members, and (12) possible funding sources to leverage funds.

Previous projects supported with Endowment funds are described in SPI Annual Reports, available on the EERI website at <http://www.eeri.org/site/projects/endowment-fund>. Send your proposal to the EERI office or e-mail it to mgreene@eeri.org by **October 15**. If you have questions, feel free to contact SPI Committee members (Ian Buckle, chair; Elizabeth Hausler, Charles Huyck, Marshall Lew, Charles Scawthorn, Kimberly Shoaf, Sharon Wood) or EERI staff.

You have the opportunity to make the Endowment Fund work by submitting your ideas!

9USN/10CEE Papers Due November 1

Of the 1,417 abstracts submitted to the 9th U.S. National/10th Canadian Conference on Earthquake Engineering, 1,258 have been accepted. Papers to be presented at the conference, to be held July 25-29, 2010, in Toronto, Ontario, Canada, are due on November 1. Detailed submission information was e-mailed in August to authors of accepted abstracts by the conference publisher, Mira Digital Publishing. If you are a corresponding author and did not receive such a message, it may have been treated as spam by your server; please contact Eloise Gilland in the EERI office (eloise@eeri.org). Papers are to be submitted online to <http://submissions.miracd.com/2010eqconf/>. Specifications

for paper length (10 pages), formatting details, a template with an example paper, and instructions can be downloaded from <http://2010eqconf.org/>. Payment of one \$200 author's fee per paper will be required upon submission of the paper. It will be deducted from the presenting author's registration fee. Payment can be made online by Visa or Mastercard to the secure web site. Submissions are not considered complete until the fee has been received.

Authors will be notified of tentative paper acceptance by January 31, 2010, with final papers due by March 20. All accepted papers will be published in the conference proceedings CD-ROM.

Call for Papers

ECEE 2010

The European Conference on Earthquake Engineering will be held August 30-September 3, 2010, in the city of Ohrid in the Republic of Macedonia. Abstracts (350 words maximum) are invited in the general topic areas of engineering seismology, geotechnical earthquake engineering, seismic performance of buildings, earthquake-resistant engineering structures, new techniques and technologies, and managing risk in seismic regions.

The abstract deadline is October 1, 2009. For more information on sub-topics and to submit abstracts, visit <http://www.14ecee.mk/>.

Learning from Earthquakes

The M7.3 September 2, 2009, West Java Quake

The information in this report was contributed by Indonesian colleagues, consulting engineer Teddy Boen, Sugeng Wijanto and Takim Andriano of PT Gistama Intisemesta, and Danny Hilman Natawidjaja of the Indonesian Institute of Sciences. The report is published by EERI as part of the Learning from Earthquakes Program, with funding from the National Science Foundation under grant #CMMI-0758529.

On September 2, 2009, at 2:55 pm local time, an M_w 7.3 earthquake struck off the south coast of West Java, Indonesia. At least 80 people were killed and many more injured; damage was widespread in western Java. There was no tsunami. An earthquake-induced landslide at Cikangkareng buried 12 houses, killing 30 people. Many roads in this district were also closed, cutting off access to remote villages. The shaking was felt widely on Java, with maximum MMI intensities of VII at Tasikmalaya, VI at Cianjur and Sukabumi, V at Bandung, and IV at Jakarta.

According to the NEIC-USGS report, the earthquake source was located at about 7.8° S and 107.25° E with a depth of 46 km. According to the USGS CMT solution, the earthquake was on a reverse fault striking NNE and dipping steeply at about 45°.

Although the hypocenter placed it near the subduction interface between the Indo-Australian and Eurasian plates, the orientation of the causative fault inferred from the seismic wave radiation pattern is inconsistent with the shock occurring as interplate faulting on that interface. Instead, the earthquake likely occurred as the result of faulting within the subducting Indo-Australian plate.

In Jakarta, tall buildings swayed and frightened the occupants; many started rushing out of buildings while they were still moving. In the course of the mass exodus, some people were injured. Subsequently, everybody gathered in the streets, causing a huge traffic jam. No major damage was found in the tall buildings, but there were nonstructural effects such as cracks at the interface of structural concrete frames and masonry infilled walls, separation of floor and wall tiles, and broken window glass.

In four districts near the epicenter, thousands of terrified residents ran from their buildings. More than 67,000 houses were badly damaged, while about 150,000 more experienced light to medium damage. The quake also caused severe damage to 2,700 one-story, nonengineered school buildings, about 50% of which

are beyond repair.

Most of the damaged or collapsed buildings were not engineered. Single-story residential units that use simple timber frames, bamboo plaited mats for walls, clay tiles for roofs, and a raised floor system generally survived unscathed (Figure 1). However, houses using unreinforced clay bricks as their bearing walls suffered severe damage. Similar failures were also seen in one-story buildings using confined masonry walls, but with low-quality materials and poor workmanship (Figure 2). Many of the damaged buildings were made more vulnerable by a lack of maintenance over the years.

The badly damaged structures were not built according to the building standards and construction practices specified for seismic areas. A special effort is therefore required to encourage people to rebuild using appropriate seismic-resistant techniques.

To see maps and more images from this event, visit <http://www.eeri.org/site/reconnaissance-activities/67-indonesia/735-m-70-java-indonesia>. Some information for this report came from the Indonesian newspaper Kompas (<http://regional.kompas.com/jawa>) and the Indonesian Meteorological and Geophysical Agency (BMKG) (<http://www.bmg.go.id/60gempa.bmkg?Jenis=URL&IDS=9279258135813849788>).



Figure 1. Type of single-story dwelling that survived the quake (photo: N.K. Widiada).



Figure 2. A building with confined masonry walls failed due to low-quality materials and poor workmanship.

News of the Institute

Meet the Candidates For President-Elect



L. Thomas Tobin

Tom Tobin has worked on natural hazards, risk management and public policy issues for 45 years. He is a graduate of the University of California at Berkeley in civil engineering and has a Master of Science degree in geotechnical engineering from San José State University. He is a registered professional engineer.

Tobin served ten years as executive director of the California Seismic Safety Commission. He has lobbied for legislation, having testified to congressional committees on six occasions and state legislative committees on over 100 occasions. He served on the NEHRP Advisory Committee and the California State Historical Building Safety Board. He served as a director and vice president of EERI and was EERI's 1996 Distinguished Lecturer. He was the founding secretary-treasurer of the EERI Northern California Chapter and currently is the chapter president. He received the San José State University, College of Engineering's 1996 Award of Distinction and the 2004 Alfred E. Alquist Medal for Achievement in Earthquake Safety. He is a director of the Coastal Zone Foundation and vice chair of

the Multihazard Mitigation Council. As a consultant, Tobin works primarily for government agencies and nonprofit organizations. He has worked with GeoHazards International for 15 years, bringing resources and technical knowledge to developing countries to reduce earthquake risk, and he is the co-manager, for the Applied Technology Council, of the City of San Francisco's Community Action Plan for Seismic Safety (CAPSS) project.

Vision

It is an honor to be asked to stand for election as the Institute's president. I want to thank the nominating committee for expressing its confidence in me, and ask you for your vote.

Serving EERI is a significant responsibility. During the last decade, EERI has grown in stature, become multidisciplinary, and welcomed members with diverse professional backgrounds and from many nations. EERI has benefited from solid leadership, and it now exerts steady influence on Washington, D.C., and beyond. Our colleagues, strengthened by membership in EERI, have even more influence through their research and practice and by serving on committees and advising international, national, and local agencies. *Earthquake Spectra*, a highly respected journal, serves professional and academic audiences in multiple disciplines. Our reconnaissance reports, monographs, seminars, and meetings disseminate information that serves our members and society. EERI is the bridge spanning from the quest for knowledge to its application.

Stature and success reflect our past, but today the Institute is in transition. Susan Tubbesing is retiring after 22 years of steady guidance, and long-term funding sources are decreasing. Our members are aging, and our membership has declined. The financial crisis is affecting our members as well as funding sources. Facing these challenges success-

fully depends on the active involvement of the entire Board and membership.

EERI exists to serve the interests of its members. We seek knowledge and improved skills, and we strive to use what we know to reduce risk. But in order for the Institute to continue its mission successfully, it must change while holding fast to what's made it so effective in the past. My vision for the future of EERI includes the following:

I will seek to increase our membership. New members will enrich our Institute with new ideas and energy and add more depth and perspective to our disciplines. A larger, stronger organization will have more influence.

I will seek to serve member needs in several ways. EERI must become more inclusive by providing opportunities to all members regardless of geography, discipline, interest, or age. This requires expanding EERI-sponsored activities.

I will encourage and support growth in the number, activity level, and disciplinary mix of our regional and student chapters. Our regional chapters provide the way to engage more members, to broaden social networks, and to serve decision makers in our communities. Chapter leaders can influence local policies and activities.

I will use EERI's influence to support federal and state programs that support research, ranging from individual inquiry, to focused and systematic investigations, to interdisciplinary efforts to solve broad problems. And I'll support, through EERI, programs and incentives that put our knowledge to work to reduce earthquake risk.

There could be no more rewarding endeavor than working with you to continue building a more effective Institute, one with active, mutually supportive members who learn and apply their knowledge to improve the human condition worldwide.

Meet the Candidates For Director A



Ellen M. Rathje

Ellen M. Rathje, Ph.D., P.E., is a professor of geotechnical engineering in the Department of Civil, Architectural, and Environmental Engineering at the University of Texas at Austin. She earned a B.S. in civil engineering from Cornell University, and M.S. and Ph.D. degrees from the University of California at Berkeley. She has been a faculty member at the University of Texas since 1998. She has served EERI as chair of the Student Activities Committee, as a student chapter faculty advisor at the University of Texas, and as a member of the Special Projects and Initiative Committee. She is currently a member of the Scientific Earthquake Studies Advisory Committee (SESAC) for the USGS and part of the Organizing Committee for the 9th US National and 10th Canadian Conference on Earthquake Engineering.

Rathje's research focuses on geotechnical earthquake engineering and engineering seismology. Her work has encompassed the seismic stability of earth structures and slopes, strong ground motion and site response, field liquefaction evaluation and soil improvement, and the application of remote sensing to earthquake damage assessment. She is co-PI of the NEES@UTexas

equipment site at the University of Texas, and has been involved in several post-earthquake reconnaissance investigations. She currently serves as the co-chair of the Geo-engineering Extreme Events Reconnaissance (GEER) Association and in this role has interacted with the EERI Learning from Earthquakes Program.

Rathje's awards include the National Science Foundation CAREER Award, the Arthur Casagrande Award from ASCE, the Shah Innovation Prize from EERI, and the Shamsher Prakash International Research Award.

Vision

EERI is a remarkable organization with a compelling vision of minimizing earthquake losses, and it has a history of bringing diverse earthquake professionals together to help achieve its goals. EERI has been successful in serving many constituents (academics, professionals, governmental agencies, students) and has demonstrated effective technology transfer through various workshop and meeting activities. These activities have made EERI one of the most effective professional organizations related to natural disasters. Additionally, Susan Tubbesing has been a transformational leader for EERI over the last 22 years, and the future includes an important and exciting transition with Jay Berger coming on board as the new Executive Director.

One of the most pressing challenges for EERI is the need to engage a new generation of earthquake professionals through interactions with undergraduate and graduate students. The newly formed Student Leadership Council and Undergraduate Student Design Competition are important activities that are exposing more students to structural earthquake engineering and encouraging them to join this field. However, we must do more to engage students in other earthquake-related fields: geology, seismology, geo-

technical engineering, and social sciences, such that these important aspects of earthquake science and engineering are not underrepresented in EERI. One approach to get students in these fields to participate in EERI is to develop activities that are compelling to them. Ensuring that EERI activities are focused on diverse earthquake-related fields will not only attract more students to EERI, it will also attract more professional members from these fields to EERI. These are important endeavors as we move forward over the next five years.

To fully realize its vision, EERI must be engaged in the global earthquake community. It is critical that we strengthen our relationships with earthquake engineering professional organizations around the world, and that we interact with grassroots organizations that are working with communities and governments to minimize earthquake risk. It is through these activities that EERI can truly make a difference and reduce future earthquake losses.

I am proud to have been a member of EERI for over 10 years and to have been actively involved in the organization in many ways. As a Board member, I hope to bring my experience to the table to help EERI continue its success in the future. I look forward to the opportunity.

Announcement

Oregon Rehab Grants

Oregon Emergency Management (OEM) has announced that the application period for the state's new Seismic Rehabilitation Grant Program (SRGP) has opened and will continue until Monday, November 16, 2009 at 5:00 p.m (PST). To obtain application packet materials, visit <http://www.oregon.gov/OMD/OEM/index.shtml>. For more information, contact Paulina Layton, Seismic Grants Coordinator, at playton@state.or.us.

Meet the Candidates For Director A



Yumei Wang

Yumei Wang, PE, RG, CEG, is a geotechnical engineer with the Oregon Department of Geology and Mineral Industries, where she leads the Geohazards Section. She has extensive technical experience that includes developing earthquake hazard maps, conducting risk analyses, and leading projects to mitigate earthquake risk. Wang has been influential in enacting public policy regarding statewide earthquake risk management, including the development of earthquake safety laws as chairperson of the Oregon Seismic Safety Policy Advisory Commission (OSSPAC).

In 2006, Wang was awarded Government Engineer of the Year by the American Society of Civil Engineers (ASCE) Oregon Section, and is immediate past chair of the ASCE Technical Council on Lifeline Earthquake Engineering (TCLEE). She has participated in numerous post-earthquake engineering investigations, including as co-lead on the 2004 Sumatra earthquake and tsunami. She has appeared frequently in a variety of major media as a commentator on earthquake risk and preparedness, including the NewsHour with Jim Lehrer and a BBC documentary.

Wang serves on the Advisory Committee on Earthquake Hazards Reduction to the National Earthquake Hazards Reduction Program (NEHRP), and on the Board of Directors for the Cascadia Region Earthquake Workgroup (CREW).

A long time EERI member, she currently serves on the Public Policy Advisory and Ad Hoc Seismic Safety of Schools Committees. She has served on EERI conference planning committees and special projects, and has presented talks at student and local chapters and annual meetings. Wang served as a Congressional Fellow in the U.S. Senate in Washington, D.C., and worked as an independent geotechnical consultant in California.

Wang has an MS in civil engineering from the University of California, Berkeley, and a BA in geological sciences from the University of California, Santa Barbara.

Vision

EERI has an extraordinary potential to significantly improve earthquake safety worldwide. My vision is to see EERI leverage our unique position to fulfill this potential. As EERI enters an era of new leadership, with attendant opportunities for new directions and renewed emphases, I believe that we can focus our diverse, multi-disciplinary expertise to more effectively reduce the harmful effects of earthquakes. My vision for the future includes aligning our resources and efforts to make EERI an even more effective player in promoting the modernization of critical infrastructure to an acceptable level of resiliency.

Modernizing critical infrastructure to improve its earthquake resiliency requires, among other things, changes in seismic rehabilitation policy within government and the private sector. Influencing such changes is often an involved and challenging process. I believe, however, that this is a worthy goal. If we do not translate our expertise as earthquake profes-

sionals into real world change, then we fall short of our full potential to improve seismic safety. EERI is especially well-suited to affect earthquake-related policy because of the broad and varied expertise of our membership. I led a successful effort by a diverse group of stakeholders to establish statewide seismic rehabilitation policies and programs. I would bring this leadership experience to the EERI Board of Directors.

Good seismic policy is necessary, but not sufficient, for fully realizing our mission of reducing earthquake risk. We must also continue to develop and implement more effective approaches to seismic rehabilitation of infrastructure. Much current infrastructure is decades behind the latest advances in seismic design and performance, leaving schools, emergency facilities, and critical energy infrastructure vulnerable. I believe EERI should continue to support innovative approaches, such as developing and providing low-cost mitigation options, and working to institutionalize routine seismic mitigation programs. Many regions in the U.S. and abroad will suffer disastrous earthquakes with painfully slow recovery due to vulnerable infrastructure unless we guide the way to improved resiliency.

Finally, to achieve these ends, we need to further develop EERI itself. I believe we can strengthen student and local chapters by improving opportunities for participation, mentorship, and leadership. EERI is uniquely suited to engage the public and stakeholders to effect real improvement in earthquake resiliency. This requires not only leveraging the considerable talent of our membership, but also developing collaborative relationships with other organizations to magnify our impact.



Meet the Candidates For Director B



Nathan Gould

Nathan Gould, chief of technology for the ABS Consulting Extreme Loads and Structural Risk Division, serves as the general manager of ABS Consulting's St. Louis Missouri office. He is a practicing structural engineer with over 19 years of experience in the design, construction, and rehabilitation of major structures in all regions of the United States and abroad. Gould obtained his BSCE at Washington University in St. Louis, his MSCE from the University of California, Irvine, and his doctorate from Washington University.

He is active in the utilization of performance-based seismic design criteria and methodology for the design of new buildings and the retrofit of existing structures. He is the technical leader for ABS Consulting in the implementation of state-of-the-art seismic analysis and design criteria for both buildings and non-structural elements in all regions of the world. He has served as both the technical and project manager for seismic and extreme wind (hurricane) loss assessments of commercial and industrial facilities in North and South America, and the Caribbean. He has also been active in the development of progressive collapse analysis and design criteria and

performed numerous progressive analyses for different types of structures throughout the United States. He has developed post-earthquake (and post-disaster) response plans for several organizations and has been active in the local and regional effort to develop an integrated post-earthquake response among engineers and other design professionals.

Gould recently served on EERI's Special Projects and Initiatives (SPI) Committee, and is active in the EERI New Madrid Chapter, where he has served the chapter in several roles including president. Gould has visited several student chapters on behalf of EERI as a Friedman Visiting Professional. He currently serves on several national technical committees and organizations related to seismic analysis, design and retrofit, including the ASCE 7 Subcommittees: Main, General Provisions, and Seismic. He is a licensed professional and structural engineer in several states.

Vision

EERI has made tremendous strides over the past years in transitioning from a regional organization to an international leader in earthquake engineering research, technical outreach, and education. I would like to see the trend continue where education, design and construction information, and even local scenarios can be developed and disseminated for regions of the world that have limited resources but face significant potential losses from seismic events.

EERI has a diverse membership, which it serves through a multitude of programs, publications and other outreach initiatives. I strongly believe that this diverse membership is one of the organization's greatest strengths in bringing different perspectives and solutions to challenging problems. Geographic diversity is also a key to the continuing success of the organization. Engineers, physical and social sci-

entists, architects, planners, public officials and other professionals in many regions of the United States and throughout the world should be actively encouraged to participate and be engaged in the organization at both the national and local levels.

EERI has several exciting initiatives and programs, including the Concrete Coalition, the Mitigation Center, Learning from Earthquakes, and the ongoing scenario effort that should be actively supported, publicized, and in some cases, expanded further. The SPI Committee provides "seed" funding for projects that are in their infancy. This program presents a fantastic opportunity for not only established researchers, but also consultants and other professionals to obtain funding for an idea that may not have a chance to gain support from more traditional funding sources. I would like to see the SPI Committee expand its mission with an increase in available funding.

EERI must continue to attract new individual members to maintain its diversity. The current program to transition student members to full time members through a reduced fee structure is an excellent initiative; however, with the economic challenges facing many in the profession, I would like to see other measures taken to limit the organization's costs and increases in membership dues. Among these initiatives would be to transition the journal *Earthquake Spectra* to a completely online publication, thus eliminating the cost of hard copy publication and dissemination.

EERI must continue to be relevant, accessible, and affordable to retain existing members and attract new members. Opportunities for partnerships with other technical organizations should be explored. As a member of EERI's Board of Directors, I will work hard to help move EERI forward as a technical leader and resource in the disaster mitigation community while continuing to serve the individual members.

Meet the Candidates For Director B



Joe Maffei

Joe Maffei is a structural engineer and principal with Rutherford & Chekene Consulting Engineers in San Francisco, which he joined in 1988. At R&C, he directs projects involving expert review, applied research, and advanced methods of seismic evaluation and design.

Joe earned a B.E. degree in civil engineering at Cooper Union, an M.S. in structural engineering at the University of Texas at Austin, and a Ph.D. in structural engineering at the University of Canterbury, Christchurch, New Zealand. Joe is a licensed civil and structural engineer in California, and a LEED (Leadership in Energy and Environmental Design) accredited professional.

Joe has been an EERI member since 1989. He was a member of the reconnaissance team and co-editor of the *Spectra* Special Issue on the 2002 Molise Italy Earthquake. He is the first author of the EERI "beyond reconnaissance" publication, *Recent Italian Earthquakes: Examination of Structural Vulnerability, Damage, and Post-Earthquake Practices*. He has served on EERI committees on earthquake data sharing and annual meeting organizing.

Joe has served as a director for the Structural Engineers Association of Northern California (SEAONC). He is active in the Seismology Committee of the Structural Engineers Association of California (SEAOC), and is SEAOC's official liaison to the American Concrete Institute (ACI). He serves on committees writing seismic provisions by ACI, the Building Seismic Safety Council (BSSC), and the Federation International du Beton.

Joe has been a lead investigator and author on research projects and design and policy guidelines for organizations such as the Applied Technology Council, the Pacific Earthquake Engineering Research Center, the Portland Cement Association, the San Francisco Planning and Urban Research Institute, SEAOC, and BSSC. He has also chaired and served on advisory panels for a number of structural engineering research projects.

Joe has received awards including a Fulbright scholarship to New Zealand, a post-doctoral scholarship to Japan from the Japan Society for the Promotion of Science, the Edwin Zacher award for service to SEAONC, and excellence in engineering awards for research guidelines from SEAONC and SEAOC.

Vision

As someone active in both research and practice, I value EERI's ability to bring together scientists, academics, engineers, officials, and other experts who practice in diverse fields from geoscience and engineering disciplines, through social science, economics, architecture, planning, policy making, and emergency response. I admire EERI's commitment to forging consensus among such varied disciplines toward a common goal of reducing earthquake impacts throughout the world.

One of the most rewarding aspects of my career has been collaboration and friendship with colleagues overseas—in Europe, Japan, New Zealand, and Latin America. My

experience working on EERI publications with several Italian contributors reinforces my interest in furthering EERI's international cooperation efforts. My experience writing technical guidelines and giving seminars supports my interest in advancing EERI's mission of education and outreach.

I strongly support the vision and strategies defined in EERI's current strategic plan (eeri.org/site/images/about/strategic_plan.pdf), which posits EERI as a leader in earthquake investigation and action on reducing earthquake risk. As a director, I would work to advance the initiatives of the strategic plan; in particular those on education, technical programs, outreach, and international activities.

Jay Berger

continued from page 1

Before his tenure at NEESinc, Jay was a consulting civil engineer from 1987 to 2005. He served as senior engineer and manager of Western Operations for GRL Engineers, a specialty civil engineering firm and world leader in dynamic measurements and analyses of deep foundations. Jay consulted on many hundreds of civil projects and provided training and workshops across the US and on five continents. His clients ranged from small to large, and included contractors, engineers, and owners, as well as local, state, and federal agencies. In 2000-01 Jay served as the founding executive director of Engineers Without Borders USA, and helped launch the organization's operational and business models. Jay has received awards from the Sierra Club and other environmental organizations for his volunteer leadership and success on local conservation issues.

Jay holds a B.S. in political science (magna cum laude) from Arizona State University and earned a M.S. in civil engineering at the University of Colorado at Boulder.

Subscribing Member News

Bechtel Sponsors SMiRT22

EERI Subscribing Member Bechtel's proposal to the board of the American Association for Structural Mechanics in Reactor Technology (SMiRT) to sponsor the 22nd International Conference on SMiRT in San Francisco in 2013 was approved. SMiRT conferences provide innovative and practical mechanics-based solutions to the planning, design, construction, operation, and regulation of nuclear power plants and related facilities. The biennial meeting of nearly 1,000 engineers, scientists, and agency representatives, the conference is considered to be the most important event in nuclear power technology. With this sponsorship, Bechtel continues its lead in nuclear power, building on its experience in the design and construction of over 150 power plants globally. EERI member and Bechtel Fellow Farhang Ostadan was elected chairman of SMiRT22 and secretary of its international board. For more information, contact him at fostadan@bechtel.com.

CSI Online Training

EERI Platinum Subscribing Member Computers and Structures is hosting the following software training programs online in October. To register for all three, visit <http://orders.csiberkeley.com/SearchResults.asp?Cat=20>.

- **SAFE V12**, October 1 (1-2 pm), October 22 (10-11 am) PDT, \$35 per person: An integrated tool for designing reinforced and post-tensioned concrete floor and foundation systems.
- **SAP2000 Introduction to Bridge Modeler**, October 1 (10-11:30 am), October 22 (1-2:30 pm) PDT, \$95 individual/\$500 group.
- **SAP2000 Seismic Bridge Design**, October 2 (1-3 pm), October 23 (10 am-noon) PDT, \$95 individual/\$ 500 group.

Announcements

COSMOS Technical Session

The Consortium of Organizations for Strong Motion Observation Systems (COSMOS) will be holding its Annual Meeting and Technical Session at the Clarion Hotel at the San Francisco Airport, Millbrae, California, on Friday, November 6. The day-long technical session will focus on "Practical Application of the New ASCE 7-10 Required Procedures for Determining Site-Specific Ground Motions." Co-sponsored by the Pacific Earthquake Engineering Research Center (PEER) and the California Geological Survey (CGS), it complements EERI's NGA Model Technical Seminar held in September.

The session will include presentations on applying the new ASCE 7-10 procedures for both building design and liquefaction evaluation. ASCE 7-10 is expected to be adopted in the 2012 IBC and the 2013 CBC. Some agencies in California are already mandating that these procedures be considered in current studies. Issues in implementing the new procedures will be covered. Following the presentations, the speakers will serve on a panel to discuss (with session participants) their observations regarding the new procedures.

For more information visit www.cosmos-eq.org.

NSF Summer Institutes for Grad Students

The mission of the National Science Foundation (NSF) East Asia Pacific Summer Institutes (EAPSI) Program is to develop the next generation of globally-engaged U.S. scientists and engineers knowledgeable about the Asian and Pacific regions. It provides the following unique opportunity to U.S. graduate students: (1) first-hand research experience in Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan; (2) an introduction to the selected location's science and science policy infrastructure; and (3) orientation to the society, culture, and language. The primary goals of EAPSI are to introduce students to East Asia and Pacific science and engineering in the context of a research laboratory, and to initiate personal relationships that will enable them to collaborate with foreign counterparts in the future. Hosted by foreign counterparts, the institutes last approximately eight weeks from June to August. The National Institutes of Health (NIH) co-sponsor the Summer Institute in Japan. The stipend amount is \$5,000. The application deadline is December 8, 2009. For information about proposal preparation, visit www.nsf.org. The NSF-EAPSI Operations Center is administered by the American Society for Engineering Education.

CSMIP09 Seminar on Strong-Motion Data

The California Strong Motion Instrumentation Program (CSMIP) in the California Geological Survey of the state's Department of Conservation will present a one-day seminar on "Utilization of Strong-Motion Data."

The goals of the seminar are to (1) increase the utilization of strong-motion data in improving post-earthquake response, seismic code provisions and design practices; and

(2) transfer recent research findings on strong-motion data to practicing seismic design professionals and earth scientists. The seminar will be held on Thursday, November 19, 2009, at the Hiram Johnson State Building in San Francisco.

For more information about speakers and topics, visit <http://www.consrv.ca.gov/cgs/smip/Pages/seminar.aspx>.

Job Opportunities

NEEScomm at Purdue

NEEScomm, headquartered at Purdue University, is now accepting applications for several positions, including Director of Site Operations.

All interested individuals are encouraged to apply online at https://www.nees.org/news/detail/neescom_jobs/ by clicking on the job number links, which will take you directly to the posting of interest.

CALENDAR

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

OCTOBER

2. AIA-EERI Forum on Designing for EQs, Stanford University. Info: www.aiascv.org (8/09)

2-3. EQ Geotech. Eng. Satellite Conf., Alexandria, Egypt. Info: mamsakr@yahoo.com (12/08)

5-9. 17th Int'l Conf. on Soil Mechanics & Geotech. Eng., Alexandria, Egypt. Info: <http://www.2009ic-smge-egypt.org/> (12/08)

15-16. PEER Annual Mtg, San Francisco, CA. Info: http://peer.berkeley.edu/events/annual_meeting/2009AM/. (3/09, 8/09)

15-16. 3rd Int'l Conf. on Advances in Experimental Structural Engineering, San Francisco, CA. Info: <http://peer.berkeley.edu/events/2009/icaese3/index.html> (7/09)

17. Loma Prieta Anniversary Event, San Francisco, CA. Info: http://peer.berkeley.edu/events/2009/loma_prieta/ (3/09)

20-21. All Hazards Forum, Long Beach, CA. Info: <http://www.allhazardsexpo.com/index.html> (9/09)

20-23. 34th Annual Conf. on Deep Foundations, Kansas City, MO. Info: <http://www.dfi.org/> (9/09)

NOVEMBER

6. COSMOS Annual Meeting & Technical Session, Clarion Hotel (SF Airport) Millbrae, CA. www.cosmos-eq.org. See page 10. (9/09, 10/09)

11-14. 17th Nat'l Conf. on EQ Eng. (Sociedad Mexicana de Ingeniería Sísmica), Puebla, Mexico. <http://www.smis.org.mx/xviii/> (8/09)

10-15. 5th Cong. on Forensic Eng., Washington, D.C. Info: <http://content.asce.org/conferences/forensics2009/index.html> (12/08)

19. CSMIP Seminar on Utilization of Strong Motion Data, San Francisco, CA. See page 10. (10/09)

23-25. 4th Annual Int'l Workshop & Expo on Sumatra Tsunami Disaster, Banda Aceh, Indonesia. <http://www.aiwest-dr.org/> (9/09)

25-26. 7th Int'l Probabilistic Workshop, Delft, The Netherlands. Info: www.elsevier.com/wps/find/newsdetail.cws_home/NWS_WN_nt0008088/essay (3/09)

DECEMBER

9-11. Improving the Seismic Performance of Existing Buildings and Other Structures, San Francisco, CA. Info: www.ATC-SEI.org (12/08, 7/09)

2010

JANUARY

27. EERI Distinguished Lecture "The State of the Practice of Seismic Hazard Analysis." London, UK. See page 2. (10/09)

FEBRUARY

3-6. EERI Annual Meeting, San Francisco, CA. Info: www.eeri.org. See page 1. (3/09, 9/09, 10/09)

22-26. Ocean Sciences Mtg, Portland, OR. Info: <http://www.agu.org/meetings/os10/program/index.php> (9/09)

26. Khan Lecture, Lehigh University. Info: <http://www.lehigh.edu/frk-series> (9/09)

MARCH

3-5. 7th Conf. on Urban EQ Eng. (7CUUE), Tokyo. Info: <http://www.cuee.titech.ac.jp/Confer->

[ence_2010/index.htm](http://www.lehigh.edu/frk-series) (8/09)

19. Khan Lecture, Lehigh University. Info: <http://www.lehigh.edu/frk-series> (9/09)

APRIL

16. Khan Lecture, Lehigh University. Info: <http://www.lehigh.edu/frk-series> (9/09)

20-23. 2010 SSA Annual Meeting, Portland, Oregon. Info: <http://www.seismosoc.org/meetings/2009/specialsessions.html> (6/09)

MAY

22-27. 10th Chilean Conf. on Seis. & EQ Eng., Valdivia-Santiago, Chile. www.achisina2010.uchile.cl (5/09)

24-29. 5th Int'l Conf on Recent Advances in Geotech. EQ Eng. & Soil Dynamics & Symp. in Honor of I.M. Idriss, San Diego, CA. Info: [5geoeq-conf2010.mst.edu](http://www.5geoeq-conf2010.mst.edu) (4/08, 1/09)

JULY

11-15. 5th Int'l Conf. on Bridge Maintenance, Safety & Management (IABMAS), Philadelphia, PA. <http://www.iabmas2010.org> (11/08)

25-29. 9th U.S. Nat'l & 10th Canadian Conf. on EQ Eng.: Reaching Beyond Borders, Westin Harbour Castle Hotel, Toronto, Canada. Info: [2010eqconf.org](http://www.2010eqconf.org). See page 3. (2/08, 7/08, 1/09, 3/09, 6/09, 8/09, 10/09)

AUGUST

11-13. Int'l Workshop on Conservation of Heritage Structures Using FRM and SHM, Ottawa-Gatineau. Info: <http://www.ishmii.org/CSHM3/CSHM3home.html> (9/09)

30-Sept. 3. 14th European Conf. on EQ Eng. (14ECEE), Skopje-Ohrid, Macedonia. Info: www.eaee.boun.edu.tr/eaee.htm. See page 3. (12/08, 10/09)

SEPTEMBER

5-9. 32nd Gen. Assembly of Eur. Seis. Com. (ESC 2010), Montpellier, France. www.esc2010.eu (5/09)

2011

JUNE

27-July 8. 25th IUGG Assembly, Melbourne, Australia. Info: <http://www.iugg2011.com/> (6/09)



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

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News of the Institute

Student Leadership Council Retreat

On August 14, 2009, 19 members of the EERI Student Leadership Council (SLC) converged in San Francisco for their annual summer retreat. The SLC consists of representatives of the EERI student chapters throughout the country. High on their agenda was the annual Undergraduate Seismic Design Competition (SDC), which in 2010 will be held in conjunction with the EERI Annual Meeting in San Francisco, February 3–6. The SLC has organized the SDC for the last six years.

EERI Platinum Subscribing Member Computers and Structures, a major sponsor of the competition, hosted a celebratory luncheon for the students and leading members of EERI at CSI's Berkeley offices on Saturday morning, August 15. CSI founder Ashraf Habibullah welcomed the students warmly and gave an inspiring talk about the structural engineering profession, encouraging

them to pursue work about which they are passionate. Students also had the opportunity to chat with other CSI staff and prominent EERI members, including former President Thalia Anagnos, Vice President Jack Moehle, Maryann Phipps of Estructure, Joe Penzien of ICEC, and faculty advisor Terri Norton of the University of Nebraska-Lincoln.

During their retreat, the students elected new officers and discussed their interests and visions for the future as well as projects for the coming year, including the 2010 SDC. Other organizational goals are promoting this competition to the industry, establishing industry relationships for professional support, and expanding research opportunities in the area of structural dynamics and earthquake engineering for the members.

Current SLC co-presidents are Andreas Stravidis of UC San Diego and Ben Kosbab of Georgia Tech. The SLC has successfully broadened its leadership with students from a number of schools throughout the country. The SLC hopes to

attract future participants from EERI's more than 30 student chapters throughout the US, Mexico, Puerto Rico, and Canada. For more information, visit <http://www.eeri.org/site/slc>.

NEES News

\$105M NEES Grant

Purdue University in West Lafayette, Indiana, announced in September that a Purdue-led team was awarded a grant of \$105 million by the National Science Foundation to create a headquarters for the operations of the George E. Brown Jr. Network for Earthquake Engineering Simulation. Submitted through the Cyber Center in Purdue's Discovery Park in West Lafayette, the grant spans five years and is the largest in the university's history.

Purdue will connect 14 simulation research sites and other engineering locations through groundbreaking cyberinfrastructure, education and outreach efforts. They include partners from the University of Washington at Seattle, the University of Texas at Austin, the University of Kansas at Lawrence, San Jose State University, the University of Florida at Gainesville, the University of Michigan at Ann Arbor, and Fermi National Accelerator Laboratory.

Purdue's center is expected to start October 1 in the Discovery Learning Research Center in Discovery Park.



SLC members, CSI staff members, academic partners, and EERI Board members at CSI in Berkeley, California.