



EARTHQUAKE ENGINEERING RESEARCH INSTITUTE NEWSLETTER

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ISSN 0270-8337

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EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

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News of the Institute

EERI and Australian Earthquake Engineering Society Sign Cooperative Agreement

EERI President Thomas D. O'Rourke recently joined Michael Griffith, president of the Australian Earthquake Engineering Society (AEES), in signing a Scientific and Technical Collaboration Agreement between the two organizations.

The objective of the agreement is to promote and sponsor collaboration between both organizations, with the goal of participating jointly in scientific and technical activities in areas of common interest related to earthquake engineering. In order to achieve this objective, EERI and AEES agreed to

- develop an agenda of common problems and areas of opportunity in earthquake engineering,
- exchange selected publications and other information,
- develop joint publications and information on mitigation measures,
- carry out joint research programs,
- organize seminars and conferences,
- engage in exchange of scholars to participate in conferences, colloquia, symposia, and special short-term courses,

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News of the Profession

Roblee Selected as the First Executive Director of the NEES Consortium



Cliff Roblee

his Ph.D. in geotechnical engineering from the University of Texas at Austin.

NEES President Ian Buckle said on behalf of the NEES Consortium Board: "I am delighted that we have been able to attract a person of Cliff's caliber ... Cliff is highly regarded in the geotechnical earthquake engineering community for his leadership in collaborative research, his excellent technical and organizational skills, and his ability to connect with audiences of all ages. This is a key appointment for NEES and speaks well for the future of the consortium and the ultimate success of the NEES Collaboratory. I look forward to Cliff's tenure with great confidence."

Roblee will lead a consortium headquarters organization of approximately 18 individuals who will function in the areas of finance and administration; equip-

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Disaster Research in the Social Sciences

The National Academy of Sciences (NAS) was recently awarded a National Science Foundation (NSF) grant to conduct a detailed appraisal of the short and long-term challenges facing the social science disaster research community, and new and emerging opportunities for advancing knowledge in the field and its application for the benefit of society. According to the project description, the study "should provide a basis for planning future social science and multidisciplinary research related to natural, technological, and willful disasters in response to challenges and opportunities presented by a changing nation and world."

Several EERI members are participating on the NAS committee for the project, including Thomas Birkland, Stephanie Chang, Robert Olson, Kimberly Shoaf, and Kathleen Tierney. EERI member William Anderson is the responsible NAS staff officer. The committee is chaired by Gary Kreps, professor of sociology and vice-provost at the College of William and Mary in Williamsburg, Virginia.

The study will start by examining the contributions and accomplishments of the social sciences through the National Earthquake Hazards Reduction Program (NEHRP), the program that, through NSF, has provided much of the support for the social science effort to date.

The study will examine the following areas:

- Social science contributions under NEHRP, both in terms of knowledge creation and utilization.
- Contributions of the social sciences since the creation of NEHRP to the understanding of natural, technological, and human-induced hazards faced by communities in the nation.
- Challenges posed for the social science disaster research community due to the expectation that, like other relevant disciplines, it will become a major partner in integrated hazard and disaster research.
- Opportunities for bridging the gap between social scientists who study natural disasters and those who investigate technological risks.
- Likely impact of key societal changes — such as the emergence of new technologies, emphasis on new hazards, and a changing emergency management profession — on how disaster research is done and on what is studied by social scientists in the future.
- Challenges of postdisaster investigations and opportunities to increase their value.
- Future opportunities for collaborative international research.
- Opportunities for meeting the challenge of furthering the application of research results.
- Future workforce needs and opportunities to meet them.

A final report will be issued at the end of the project in approximately 18 months. The committee held its first meeting on April 23, 2004. EERI members and others who are interested in providing feedback to the committee and monitoring progress on this project can visit the NAS web site (www.nationalacademies.org/). Click on Current Projects, and then enter the name of this project: Disaster Research in the Social Sciences.

Announcement

Multihazard Summer Institute

The 2004 Multihazard Building Design Summer Institute is offering four courses in hazard mitigation, including one course entitled *Topics in Performance-Based Earthquake Engineering*, which will be presented July 26-29, 2004. The other courses, *Wind Mitigation Design*, *Flood Mitigation Design*, and *Fire Safe Design*, are offered July 19-22. The courses will be presented at the Emergency Management Institute, located in Emmitsburg, Maryland.

The four-day courses are designed for engineering faculty, with the expectation that course attendees will utilize the course material in undergraduate and graduate curriculum development. The summer institute courses are offered free of charge, including travel costs, to qualified applicants. A prerequisite for the earthquake course includes previous attendance at the Institute's *Introduction to Earthquake Engineering Course*, or permission from the lead instructor.

The *Topics in Performance-Based Engineering* course includes sessions on Principles of Performance Based Earthquake Engineering, Seismic Hazard and Seismic Risk Analysis, Geotechnical Earthquake Engineering, Ground Motion Selection and Scaling, Nonlinear Static and Dynamic Analysis Procedures, Passive Energy Systems, and Seismic Isolation Systems. Each lesson is enhanced with a variety of individual and group exercises. The latest versions of computer programs *NONLIN*, *NONLIN-Pro*, and *EQTools* are provided to each participant for use at the Institute and in their own college classrooms.

Complete course information and application materials may be obtained from training.fema.gov/emiweb/MBDSI/.

News of the Profession

Nominations Sought for Awards of Excellence

Nominations are being sought for the 2004 National Awards of Excellence, which will be presented at the National Earthquake Conference, September 26-30, 2004, St. Louis Missouri.

The awards are given to persons, organizations, or agencies that have contributed significantly to addressing earthquake risk reduction within the United States through their achievements, leadership, and dedication. Special emphasis is placed on those who have demonstrated these qualities as part of a collaborative effort in addressing the hazard.

Award recipients will be honored during an awards luncheon Wednesday, September 29, 2004. Recipients will be featured in conference materials and on the official conference web site.

Awards are given in the following categories: mitigation, response and recovery, plans and materials, research, multijurisdictional planning, and outreach programs. Nominations must be submitted no later than June 30, 2004. Notification will be sent by registered mail to award winners no later than July 31, 2004.

Organizations eligible for awards include state, provincial, county, and city governments; nonprofit organizations; and business or academic institutions responsible for earthquake programs, projects, or products for which the nominee has provided leadership, effort, or technical assistance.

For additional information and nomination forms, visit www.earthquakeconference.org/AwardsNominationForm.doc.

News of the Profession

Elnashai Succeeds Abrams as Director of Mid-America Earthquake Center



Amr Elnashai

Dr. Amr Elnashai has been named director of the Mid-America Earthquake Center (MAE), succeeding Dr. Daniel Abrams, who had been director since 1997. The center focuses on the infrequent but high-consequence seismic events that are typical in the eastern and central United States. The center's research is directed at "consequence-based engineering" and includes development of enabling technologies to synthesize damage across regions, mitigation methods to minimize earthquake consequences, and better definitions of seismic hazards.

Elnashai's research interests are experimental, analytical, and field investigations of the seismic response of concrete, steel, and composite buildings and bridges. He is the director of the Network for Earthquake Engineering Simulation (NEES) Multi-Axial Full-Scale Sub-Structured Testing and Simulation Facility at the University of Illinois, Urbana Champaign (UIUC). In 2001, Elnashai moved from Imperial College, London, and joined the Department of Civil and Environmental Engineering at UIUC. In addition to his participation in many professional organizations, he lectures at the European School for the Reduction of Seismic Risk in Italy. He has served as associate director of the MAE Center since his arrival at UIUC and has been serving as acting director of the center during Abram's recent sabbatical.

Abrams, the Willet Professor of Civil Engineering at UIUC, was the leader of the winning proposal to establish the MAE Center in 1997. He thereafter led the planning and execution of the process of building the center academically and administratively, making it a leading international organization in the field of earthquake engineering. Abrams is at the forefront of the area of seismic performance of masonry structures. An active member of EERI, he has served as chair of the Experimental Research Committee, as a member of the Research Policy Committee, and as a member of the editorial board of *Earthquake Spectra*. He has also held leadership roles in other professional organizations including the Masonry Society, the National Center for Earthquake Engineering Research, and the American Society of Civil Engineers.

Australian EQ Engineering

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- encourage the organization of and participation in technical committees,
- promote the participation of social scientists from both countries in the development of earthquake mitigation policies,
- encourage a multidisciplinary approach in the activities to be developed.

To carry out the goals of the agreement, EERI and AEES will establish a bilateral commission to prepare work programs, periodically evaluate their fulfillment, and exchange information on their progress and on the development of policies and procedures. AEES President Griffith said that he was "looking forward to working with EERI to develop practical earthquake risk mitigation for low-to-moderate earthquake hazard regions such as Australia."

PLEASE POST IMMEDIATELY



Earthquake Hazards Reduction Fellowship Announced

Under a cooperative agreement established with FEMA, the Earthquake Engineering Research Institute is pleased to offer the **2005 Professional Fellowship** to provide an opportunity for a practicing professional to gain greater skills and broader expertise in earthquake hazards reduction, either by enhancing knowledge in the applicant's own field, or by broadening the applicant's knowledge in a related but unfamiliar discipline.

Who Should Apply?

This unique fellowship is designed to bring together an experienced career professional with other professionals conducting significant research, thereby providing opportunities to both enrich the applicant's knowledge and skills and to broaden the research base with challenges faced in practice. The Professional Fellowship is *not* intended to fund work towards a degree.

The Award

The fellowship provides a stipend of \$30,000, commencing in January 2005, to cover tuition, fees, and relocation and living expenses. The fellowship will be awarded on the basis of a specific project, with the proposed work or course of study to be carried out over a period of up to one year. The recipient will have the flexibility to work less than full time with the host institution and academic sponsor, with the understanding that the effort will result in a report by the end of twelve months.

Criteria

Applicants must provide a detailed work plan for a research project that would be carried out in the twelve-month period. The fellow will be expected to produce a written report upon completion of the project. All applications must be accompanied by a professional resume and letter of nomination from the faculty host at the cooperating educational institution. Faculty members should also indicate the institution's ability to provide research facilities, including library, work space, telephone, and computer access. Applicants must hold U.S. citizenship or permanent resident status.

To Apply

Candidates may obtain an application form from the Earthquake Engineering Research Institute, 499 14th Street, Suite 320, Oakland, California 94612-1934, tel: (510) 451-0905, fax: (510) 451-5411, e-mail: eeeri@eeeri.org, or from EERI's web site at <http://www.eeri.org>.

**Deadline for receipt of all application materials at EERI is September 7, 2004.
Announcement of the award will be made October 18, 2004.**

News of the Membership

Japanese Award to Richard N. Wright



Richard N. Wright

The Japan Society of Civil Engineers gives its International Award annually to a foreign civil engineer who has contributed to the advancement of technological exchange or collaboration. Its 2003 Award will be presented in Tokyo on May 28, 2004, to EERI member Dr. Richard N. Wright, for his contributions to technological exchange between Japan and the United States and to the advancement of wind and seismic design technologies in both countries, in his capacity as U.S. chairman of the

U.S.-Japan Panel on Wind and Seismic Effects from 1983 to 1999.

The award recognizes the accomplishments of international and Japanese engineers and scientists, many of whom are EERI members, in cooperative research to reduce the harmful effects of extreme winds, earthquakes, and tsunamis.

The governments of the United States and Japan in January 1964 created the U.S.-Japan Cooperative Program in Natural Resources (UJNR) as one of three programs comprising the U.S.-Japan Cooperative Science Program. The Panel on Wind and Seismic Effects was established in 1969 to encourage, develop, and implement technologies to mitigate wind and seismic effects; develop stronger technical links between the two countries; conduct cooperative research programs; and exchange guest researchers and equipment. The National Institute of Standards and Technology has provided the U.S. secretariat and chairman. Eighteen U.S. agencies, seven Japanese agencies, and representatives of

universities and private sector organizations have participated in the panel and its 12 task committees.

Principal accomplishments of the panel's research efforts include:

- acquiring and sharing data on wind velocities and forces, earthquake ground motions, and structural responses to extreme winds and earthquakes;
- related Standard Penetration Test (SPT) results from U.S. and Japanese tests to improve identification of sites subject to liquefaction in earthquakes;
- improved seismic design methods for steel, reinforced concrete and pre-cast concrete buildings;
- improved seismic design methods for bridge columns;
- strength-based design guidelines for reinforced masonry buildings;
- confirmed methods for prediction of performance of full-scale structural components and subassemblies; and
- hybrid control algorithms for efficient limitation of structural response to extreme winds and earthquakes.

Roblee

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ment site operations; information technology operations; and education, outreach and training. Candidates to manage these departments and candidates for other consortium positions will be solicited in the coming months.

The executive director will serve as a spokesperson for the earthquake engineering community in supporting and guiding the NEES initiative of the National Science Foundation, will coordinate NEES research and its resources, and will connect NEES research capabilities and findings to broader communities.

For the past 12 years, Roblee has been involved in the development,

management, and performance of applied earthquake research with Caltrans. He has significant practical experience with *in situ* geophysical measurement of wave velocity, laboratory measurement of material properties, and design specification of earthquake ground motions and deformations. At Caltrans, he led a small team of georesearch specialists that focused on topics including earthquake seismology, foundation engineering, subsurface characterization, and geotechnology implementation.

He developed significant research partnerships with government, academic, and private sector entities, both within the United States and internationally. These partnerships led to coordinated programs of applied research focused on earth-

quake ground motion hazard and related implications for facility and network performance. He managed research projects on the development of prototype *in situ* testing equipment and mapping of landslide hazards along highway corridors. He also has been instrumental in introducing emerging knowledge and technologies into Caltrans' practices, ranging from comprehensive source-path-site ground motion modeling, to standardized approaches for electronic archive and exchange of geo-information, to improved regional and network-based procedures for earthquake planning and emergency response. Roblee serves on several national technical committees and participated in the geotechnical field reconnaissance of the 1999 earthquakes in Turkey and Taiwan.

Announcements

Nominations Sought for Prakash Award

The Shamsher Prakash Foundation is soliciting nominations for the 2004 Shamsher Prakash Annual Prize for Excellence in the Practice of Geotechnical Engineering, which is given to a young (less than 45 years old) engineer, scientist, or researcher from anywhere in the world. Candidates should be specialists in geotechnical engineering or geotechnical earthquake engineering, have made significant independent contributions to the field, and show promise of future excellence. The award includes a cash prize of \$1,100.

Nominations are due on or before October 31, 2004. All nominations will be reviewed by a judging committee of international experts from Canada, Japan, the United Kingdom, and the United States. The award will be announced by December 31, 2004.

Additional information on submitting nominations can be found at www.rollanet.org/~prakash1/yoga10/geotechengg.htm, or by contacting Sally Prakash at sallyp@umr.edu.

OES Disaster Recovery and Mitigation Training

In times of disaster, communities look to their leaders and government agencies to guide them in obtaining disaster relief for residents, businesses, ranchers, farmers, and public infrastructure. Federal and state agencies have numerous regulations and procedures that must be followed to gain critical recovery assistance. Local agencies responsible for providing disaster relief must be familiar with these state and federal requirements to receive timely assistance. Experience has shown that following a disaster, some communities are

better prepared than others in maximizing federal and state assistance and consequently in gaining critical community support.

To assist local agencies responsible for providing disaster relief in becoming familiar with state and federal requirements to receive recovery assistance, the California Governors Office of Emergency Services (OES) is conducting a series of recovery and mitigation courses at no cost to participating organizations. The courses are designed to assist communities in maximizing disaster assistance funding and services following a disaster. The descriptions of courses with the dates and locations can be found at www.oes.ca.gov.

Job Opportunity

Massey University New Zealand

Massey University is seeking applicants for a chair in natural hazards planning, recently endowed by the New Zealand Earthquake Commission (NZEC). The position is in the Resource and Environmental Planning Programme in the School of People, Environment, and Planning at the university's Palmerston North Campus.

Applicants must have a distinguished track record of teaching, research, and scholarship and the ability to provide strong academic leadership. The appointee will become the leading commentator in New Zealand, advancing the field of natural hazards planning to a wide range of groups both within academia and in the wider community. The position will focus on natural hazards in undergraduate and postgraduate programs in planning and other disciplines, and will lead to improved understanding and enhanced capabilities in those who will help build self-reliant communi-

ties in New Zealand in the future. This chairmanship will be at the level of existing research fellowships sponsored by the NZEC in seismic studies at Victoria University and earthquake engineering at the University of Canterbury.

For more information, e-mail Helen Cox of Academic Search International at helen.cox@academic-search.net.

Call for Papers

Structural Dynamics Conference

The Society for Experimental Mechanics (SEM) will host IMAC-XXIII: A Conference and Exposition on Structural Dynamics January 31-February 3, 2005, at the Rosen Plaza Hotel in Orlando, Florida. The conference theme is "Structural Health Monitoring" (SHM), which has been an evolving technology for a number of years. With the development of more powerful computational capabilities and miniaturized sensors, SHM schemes are being explored that can be designed into the structure, providing a comprehensive health evaluation.

SEM is accepting abstracts for technical papers for presentation through **June 14, 2004**. The topics are grouped under the following four areas: general topics, structural dynamics related to civil structures, structural health monitoring, and special focus areas. Each special focus area will have background educational lectures or panel discussions. For more information about the topics, visit www.sem.org. This site also has details about submitting abstracts and the submission form. Only electronic submissions will be accepted. Abstracts should not exceed 200 words and should not contain figures or equations. For accepted abstracts, the deadline for the finished paper will be October 11, 2004.

CALENDAR

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

JUNE

7-10. SEM X Int'l Cong. on Experimental & Applied Mechanics, Costa Mesa, CA. Info: www.sem.org (10/03)

10-11. 4th Int'l Workshop on Structural Control, Columbia Univ., NY. Info: www.civil.columbia.edu/4IWSC (11/03)

20-23. 14th World Conf. on Disaster Management, Toronto, Canada. Info: www.wcdm.org/ (11/03)

23-25 Int'l Symposium on Steel Bridges, Millau, France. Info: www.otua.org/events/ (5/04)

JULY

6-9. Int'l Symp. Network & Center-Based Research for Smart Structures Tech. & EQ Eng., Osaka, Japan. Info: mahua@rch.eng.osaka-u.ac.jp (12/03)

12-15. 3rd European Conf. on Structural Control, Vienna, Austria. Info: www.samco.org/3ecsc (10/03)

18-23. Composite Construction in Steel and Concrete V, Kruger National Park, South Africa. Info: www.engconfintl.org/4ab.html (12/02)

26-28. ASCE Specialty Conf. on Probabilistic Mechanics and Structural Reliability, Albuquerque, NM. Info: www.esc.sandia.gov/PMCconferenceinfo.html (12/03)

AUGUST

1-6. 13th World Conference on EQ Eng. (13WCEE), Vancouver, British Columbia, Canada. Info: www.13wcee.com (7/02, 3/03, 4/04)

8-11. MOVIC 04 Motion and Vibration Control Conf., St. Louis, MO. Info: www.seas.wustl.edu/movic04/ (11/02)

25-28 SEAOC Ann'l Convention, Monterey, CA. Info: www.seaoc.org (5/04)

SEPTEMBER

14-17. NDE/NDT for Highways and Bridges 2004, Buffalo NY. Info: www.asnt.org/events/events.htm (12/03)

26-30. 2004 National EQ Conf., St. Louis, MO. Info: www.earthquakeconference.org/. See page 3. (4/04)

29-Oct. 1. Annual Conf. on Deep Foundations, Vancouver, B.C., Canada. Info: www.dfi.org (12/03)

OCTOBER

18-20. 3rd Int'l Conf. EQ Eng., Nanjing, China. Info: 3icee.njut.edu.cn/ (5/04)

25-Nov. 5. 7th Workshop on 3-D Modelling of Seismic Waves, Trieste, Italy. Info: agenda.ictp.trieste.it/smr.php?1586 (2/04)

NOVEMBER

15-19. Committee on Safety of Nuclear Installations Workshop on Seismic Input Motions, Tsukuba, Japan. Info: www.nea.fr/html/nsd/workshops/SEIS2004/index.html (4/04)

DECEMBER

8-20. 4th Int'l Conf. on Dam Engr., Nanjing, China. Info: www.dam04.com (1/04)

2005

JANUARY

13-16. Int'l Symp. on EQ Eng., Japan. (2/04)

31-Feb 3. IMAC XXIII, Orlando, FL. See page 6. (6/04)

FEBRUARY

2-6. EERI Annual Meeting, Ixtapa, Mexico. Info: www.eeri.org (4/04)

19-22. Int'l Assoc. for Bridge Struct. Eng. Conf., New Delhi, India. Info: www.iabse.org (11/03)

SEPTEMBER

20-23. 3rd Int'l Structural Eng. & Const. Conf., Shunan, Japan. Info: www.tokuyama.ac.jp/tcss1/ISEC_03/ (4/04)

2006

APRIL

18-21. 8th U.S. Nat'l Conf. on EQ Eng. (8NCEE), EERI Annual Meeting, SSA Annual Meeting, Disaster Resistant California, San Francisco, CA. Info: www.eeri.org (5/04)

News of the Membership

RMS Characterizes 10 Greatest Risks

What are the greatest risks we face in the United States? In an effort to find more imaginative ways to write and report on risk, the magazine *Risk & Insurance* posed this question to EERI Subscribing Member Risk Management Solutions (RMS), a leading risk modeling firm.

First, the decision was made to look at only risks triggered by an event, natural or man-made. Second, the event had to have a reasonable chance of happening — namely, a probability of once in a hundred years. For six months, a team of RMS researchers led by Robert Muir-Wood, RMS's research director, looked at the panoply of risk and identified the following 10 events as the worst confronting the United States: hurricane, flood, oil spill, terrorism, blackout, wildfire, industrial accident, cyber attack, pandemic, and earthquake.

RMS created realistic scenarios to bring these events to life. The result is a 24-page article in the April 15 issue of *Risk & Insurance*. EERI member Fouad Bendimerad wrote the earthquake scenario, based on a magnitude 7.0 Palos Verdes event that postulates 400 dead, 3,000 injured, and direct costs of \$100 billion.

A copy of "Today's 10 Greatest Risks" may be downloaded from www.rms.com/Publications/10GreatestUSCats_R&I_041504.pdf. A hard copy may be obtained from Haresh Shah at Haresh.Shah@rms.com.

News of the Institute

Lessons Learned Over Time Projects for 2004

EERI's Learning from Earthquakes Advisory Committee has selected four proposals for support in 2004 that are aimed at capturing earthquake lessons from past earthquakes. This is the fourth round of proposals supported by this modest program, developed to identify lessons that may not be apparent in the immediate post-earthquake reconnaissance phase, or that should be reevaluated in light of new understanding and knowledge. This program is part of the larger Learning from Earthquakes Program, funded by the National Science Foundation, enabling engineers, earth scientists, social scientists, and other researchers to visit earthquake sites and carry out investigations.

The following four proposals have been selected for support:

Lori Dengler: *Development of a Complete Data Set on the 1964 Crescent City Tsunami*

Jennifer Haase: *Hands-on Science in Schools: Mapping Amplification of Earthquake Ground Motion in Indiana*

Elizabeth Hausler: *Evaluation of Lasting Change in Construction Practices Resulting from Post-Earthquake Reconstruction Financing and Capacity-Building Programs in India*

Stephen Tobriner: *San Francisco Codes 1906-1920, a chapter from "Saving San Francisco: Engineers, Architects, and Earthquakes 1836-1933"*

Recently, EERI members should have received Volume V in the series of publications supported by the Lessons Learned Over Time grants, entitled *Adobe Housing Reconstruction after the 2001 El Salvador Earthquakes*, written by Dominic Dowling. It has the feature, heretofore unique for an EERI publication, of being printed in both Spanish and English in one volume.

Further information on the Lessons Learned Over Time Program is available from EERI LFE Program Manager Marjorie Greene at mgreene@eeri.org.

News of the Institute

Honors Committee Seeks Member Input

The EERI Honors Committee will meet in the third quarter and invites EERI members to participate in the process of identifying worthy members whose contributions should be recognized. In particular, the committee would like to hear from the general membership in identifying candidates for the George W. Housner Medal and the Distinguished Lecturer Award.

The committee will also nominate members for Honorary Membership and recommend the award for the *Earthquake Spectra* Outstanding Paper for 2003. All these awards will be presented at the EERI Annual Meeting in Ixtapa, Mexico, in February 2005.

Send your nominations to the Honors Committee at the EERI office. Past Distinguished Lecturers, Honorary Members, and Housner Medal recipients are listed on page ii of the 2003 EERI Roster. A complete description of each award can be found at www.eeri.org/home/honors.html.



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