



**EARTHQUAKE ENGINEERING  
RESEARCH INSTITUTE  
NEWSLETTER**

Editor Thalia Anagnos  
Associate Editors Sarah Nathe  
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  
Thomas D. O'Rourke

PAST-PRESIDENT  
Chris D. Poland

VICE PRESIDENT  
Svetlana Brzev

SECRETARY-TREASURER  
Ronald L. Mayes

BOARD OF DIRECTORS  
Sergio M. Alcocer  
Donald Ballantyne  
Svetlana Brzev  
Bruce R. Clark  
Mary C. Comerio  
Ronald L. Mayes  
Sarah Nathe  
Thomas D. O'Rourke  
Chris D. Poland

EXECUTIVE DIRECTOR  
Susan K. Tubbesing

**News of the Institute**

**Election Results: Clark and Nathe Elected to Board of Directors**



*Bruce R. Clark*



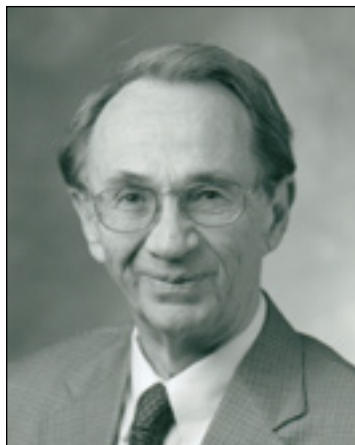
*Sarah K. Nathe*

**Bruce R. Clark**, senior consultant with Leighton & Associates and chairman of the California Seismic Safety Commission, and **Sarah K. Nathe**, coordinator of the Disaster-Resistant University Project at the University of California, Berkeley, were elected the newest members of the EERI Board of Directors in the 2003 election. Many thanks go to the members of this year's Tellers Committee for tallying the elections results: Craig Cole of Degenkolb Engineers, Ayse Hortacsu of Weidlinger Associates, and Kevin Moore of Comartin-Reis.

Clark and Nathe will be formally welcomed to their new posts at the Board Meeting in Portland, Oregon, on February 5. They will each serve three years as directors, replacing Melvyn Green and Dennis Mileti, whose terms have expired. EERI extends thanks to Green and Mileti for their years of outstanding service and dedication to the Institute. Another significant transition will be the installation of incoming President Thomas D. O'Rourke, Thomas R. Briggs Professor of Engineering at Cornell University in Ithaca, New York. Outgoing President Chris D. Poland, president of Degenkolb Engineers in San Francisco, will continue to serve on the Board for one year as past president.

*continued on page 3*

**C. Allin Cornell Receives Housner Medal**



*C. Allin Cornell*

C. Allin Cornell, professor of civil and environmental engineering at Stanford University, is this year's recipient of EERI's highest honor, the George W. Housner Medal. The medal was awarded for his distinguished career in advancing understanding of earthquake hazards and reduction of earthquake risk. His seminal paper in 1968, entitled "Engineering Seismic Risk Analysis," was the first to quantify seismic hazard and risk. His publications on probabilistic modeling of earthquake processes form the basis for statisti-

*continued on page 3*

## Announcement

### William B. Joyner Memorial Lectures

The Seismological Society of America (SSA), in cooperation with EERI, has established the William B. Joyner Memorial Lectures to be given at the annual meetings of SSA and EERI. The lectures honor Joyner's distinguished career at the U.S. Geological Survey and his abiding commitment to continuing communication and education at the interface between research findings of earthquake science and the practical realities of earthquake engineering. The purpose of the Joyner Lectures is to continue and generalize communication at this interface.

The Joyner Lecturer will be chosen annually by the Joyner Committee of the SSA, on the basis of outstanding earth science contributions to the theory and practice of earthquake engineering or outstanding earthquake engineering contributions to the direction and focus of earth science research, together with demonstrated skills of communication at the interface of earthquake science and earthquake engineering. Each Joyner Lecturer will provide a written version of his or her lecture suitable for publication in *Earthquake Spectra* and *Seismological Research Letters*. The Joyner Lecturer shall receive an honorarium of \$1,000 payable from the William B. Joyner Memorial Fund.

The first Joyner Lecture will occur in the year 2004. Nominations for the 2004 Joyner Lecturer should be sent by July 1, 2003 to the Joyner Committee, SSA, 201 Plaza Professional Building, El Cerrito, CA 94530. Nominations may be made by any current member of EERI or SSA. Nominations must clearly document what the nominee has done to foster and enhance communication at the interface between earth science and earthquake engineering, and why the nominee's work has made a dif-

ference.

Contributions to the William B. Joyner Memorial Fund can be made online by credit card by clicking on Joyner Fund at [www.seismosoc.org](http://www.seismosoc.org) or by check made out to "SSA-Joyner Fund" and mailed to SSA.

---

## News of the Profession

### Strong-Motion Accelerometers in Developing Countries

COSMOS has arranged for the distribution of unused but still effective analog strong-motion accelerometers through requests from viable engineering groups in foreign countries. The program, entitled "The SAFER Cities COSMOS Program," is documented in an article by Borchardt et al. in the 7<sup>th</sup> National Conference on Earthquake Engineering Proceedings.

COSMOS has taken title to over 100 of these instruments from the U.S. Geological Survey. A similar number from the California Strong-Motion Program is being transferred.

To subsidize the costs of shipment to overseas programs, COSMOS is setting up a special fund and invites individual members, engineers, and engineering and geotechnical companies to contribute to this fund. The primary advantages are as follows: (1) encouragement of interest in strong-motion earthquake recording, (2) an increase in the probability of receiving critical strong-motion recordings of large earthquakes for general and personal use, and (3) personal interest in enhancing observational work in developing countries.

Contributions should be sent to COSMOS, Room 121, Bldg. 454, 1301 South 46<sup>th</sup> Street, Richmond, CA 94804-4698.

## News of the Institute

### EERI Staff



EERI is pleased to announce that recently joined EERI as Information Technology Manager.

Before connecting with EERI, was technology director for Communities in Harmony Advocating for Learning and Kids (CHALK), where he maintained the web site, did systems administration, developed programs to teach youth computer literacy and job-readiness skills, and taught classes on advanced HTML programming, design, and Internet research. That followed years of experience producing corporate and commercial web sites, including the development of support resource material on the web and designing efficient web page layouts.

Previously taught introductory Photoshop skills at the City College of San Francisco, and also in that city was a teaching assistant at the Academy of Art College, where he majored in computer graphics.

In addition to his IT and web site management duties at EERI, will oversee speakers' presentations and audio-visual needs at Institute meetings, beginning with the 2003 Annual Meeting in Portland, Oregon.

## Election Results

*continued from page 1*

It is not too early to start thinking about next year's election of a president-elect and directors. The Nominating Committee welcomes suggestions from the membership, including self-nominations. Nominees for president-elect must have previously served on the Board. Nominees for director must have been active (or honorary) members of EERI for at least five years, and must not have been nominated to the Board in the last two years. To submit a name for consideration, send a brief note giving the name and qualifications of the potential candidate to the Nominating Committee in care of the EERI. All submissions are confidential.

---

## News of the Membership

### 2002 Trevithick Prize

Incoming EERI President Tom O'Rourke, Harry Stewart, and Sang-Soo Jeon won the Trevithick Prize 2002 from the British Institution of Civil Engineers (ICE) for the paper "Geotechnical Aspects of Lifeline Engineering" that was published in the January 2001 issue of *Geotechnical Engineering*. The prize is awarded every three years for an outstanding paper published by ICE. The awards ceremony was held in London at the Institution of Civil Engineers on November 5, 2002. The paper summarizes the results of research supported by NSF, MCEER, the Gas Technology Institute and the New York Gas Group.

Tom O'Rourke is the Thomas R. Briggs Professor of Engineering, and Harry Stewart is an associate professor, both at Cornell University. Sang-Soo Jeon earned his Ph.D. at Cornell and is currently the chief researcher of the Geotechnical Research Division of the Korea Highway Corporation.

## Housner Medal

*continued from page 1*

cal earthquake forecasting that have been widely applied around the world, and are now incorporated in modern building codes. Cornell has made fundamental contributions to structural engineering by integrating seismic hazard analysis, building vulnerability, and failure probability into the design process.

Cornell received his B.A. in architecture in 1960, and M.S. and Ph.D. degrees in civil engineering (structures) in 1961 and 1964 respectively, all from Stanford University. From 1964 to 1983, he taught at the Massachusetts Institute of Technology, progressing from assistant to full professor. At Stanford, he is a half-time research professor, supervising graduate student research, and a half-time independent engineering consultant. His motivation is to apply advanced probabilistic methods and conduct the research stimulated by the needs identified through his practice. Both research and practice have centered on characterization of structural loads and analysis of safety of structures, including near-failure behavior of those structures, whether static or dynamic. Early research led to probabilistic seismic hazard analysis (PSHA) and to the first probability-based load-factor building design codes. Later work and practice included seminal contributions to seismic probabilistic

risk assessment of nuclear power plants and advancements in theory and application of PSHA. He later turned to offshore structures, including nonlinear probabilistic structural system reliability under wave and seismic loading. The systematic study and practice of structural safety has taken him deeply into the relevant loading phenomena, where most of the uncertainty lies, and then to the load-structure interface, and finally into structural behavior in the strongly nonlinear domain. Cornell's textbook with J. R. Benjamin on applied probability for civil engineers is used internationally.

He was elected to the National Academy of Engineering in 1981 and is a fellow of the American Geophysical Union. He has received many other honors for his contributions to the field, including the ASCE Walter L. Huber Research Prize, the Norman Medal for the best paper among all ASCE journals, the ASCE Freudenthal Medal for distinguished achievement in safety and reliability studies, and the Medal of the Seismological Society of America (SSA). Cornell is a past president of SSA.

He has served on EERI's *Earthquake Spectra* Editorial Board and the organizing committee for the 1998 50<sup>th</sup> anniversary Annual Meeting. He co-authored the paper awarded as outstanding paper in *Earthquake Spectra* for 1998, and was the Institute's Distinguished Lecturer in 1999.

---

## News of the Institute

### Earthquake Spectra Now Listed in Science Citation Index

*Earthquake Spectra* has been accepted for listing (as EQS) in the *Science Citation Index Expanded (SCIE)* and the *Web of Science* maintained by the Institute for Scientific Information. The listing indicates that EQS meets the high standards for peer review, quality, and timeliness of publication expected of scholarly journals. The *SCIE* provides access to bibliographic information, author abstracts, and cited references found in approximately 5,900 of the world's leading scholarly science and technical journals covering more than 150 disciplines. Articles published in EQS issues from February 2002 on will be included in the *SCIE*.

## Learning from Earthquakes

### Effects of 11-2-02 Northern Sumatra Earthquake in Indonesia and Malaysia

*The following information is based on a report sent to EERI by Associate Professors Azlan Adnan (EERI member) and Hendriyawan of Structural Earthquake Engineering Research (SEER), Faculty of Civil Engineering, Universiti Teknologi Malaysia, and Dr. Ir. Masyhur Irsyam of the Civil Engineering Department, Institut Teknologi Bandung. Donald Wells of Geomatrix Consultants also contributed to this report.*

A major earthquake of moment magnitude 7.4 occurred west of Sumatra at ~8:30 A.M. local time on November 2, 2002. The epicentral location (96.085°E and 2.824°N) and the moment tensor solution (northeast-dipping thrust) from the U.S. Geological Survey National Earthquake Information Center (NEIC) indicate that the northern Sumatra earthquake occurred on the northeast-dipping interface between the subducting Australian plate and the overriding Sunda block of the Eurasian Plate. The Bureau of Meteorology and Geophysics of Indonesia reports Modified Mercalli Intensity (MMI) ground shaking levels at the following locations: Tapaktuan (V-VI), Meulaboh (IV-V), Singkil (IV-V), Banda Aceh (III-IV), Medan (II-III), and Lhokseumawe (II-III). The earthquake reportedly destroyed more than 350 buildings and caused damage to about 1,000 additional buildings, primarily houses and a government building on Simeuleu Island to the west. Many cracks occurred in roads and highways. At least two people were killed and 54 were injured on Simeuleu during the earthquake, according to newspaper sources. The NEIC reports 30 deaths and 65 injured on Simeuleu. A moment magnitude 6.1 aftershock hit the area at about 5.00 p.m., which caused the 40-bed Simeuleu Hospital to evacuate patients. There were no reports of tsunamis.



*Location of epicenter of November 2, 2002 northern Sumatra earthquake*

The Malaysian Meteorological Service reported that the event caused tremors lasting several seconds in various parts of Penang, approximately 520 km from the epicenter. It caused panic among residents of high-rise buildings in Penang, with thousands running out of their buildings. Several cracks in buildings were reported in Penang but no injuries or other damage.

The research group SEER at the Universiti Teknoligi Malaysia analyzed peak ground and spectral accelerations using empirical attenuation relationships by Youngs (1997) and Atkinson and Boore (1997). This analysis indicates that the expected peak ground motions at Penang and Kuala Lumpur are about 0.003 to 0.005 g. Also analyzed were local site effects for Bandar Bau Sentul in Kuala Lumpur using a 1-D shear wave propagation theory with natural (1940 El Centro N-S and 1989 Loma Prieta) and synthetic (Random Vibration Theory) time histories. This analysis indicates that the site amplification for PGA is about 2.8, and that the amplification factors and spectral accelerations from the synthetic time histories are higher than those from the natural time histories.

## Learning from Earthquakes

### EERI Sends Team to Mexico

EERI has sent a three-member reconnaissance team to Colima, Mexico, where they will join forces with Mexican colleagues in a joint reconnaissance effort to investigate the effects of the M 7.8 earthquake on January 21. Sergio Alcocer, EERI Board member and researcher at CENAPRED in Mexico City, and Francisco Sánchez-Sesma, President of the Sociedad Mexicana de Ingeniería Sísmica (SMIS), have traveled to the epicentral area with colleagues. Joining them from the United States with funding support from the National Science Foundation are Richard Klingner, civil engineering professor at the University of Texas, Austin; Paul Flores, Director, ABS Consulting Group in Irvine, California; and Anna Lang, a structural designer with Tipping Mar & Associates, Berkeley, California. EERI and SMIS recently signed a Scientific and Technical Collaboration Agreement, and this reconnaissance investigation will be the first activity undertaken jointly. The group will also coordinate with the NSF-sponsored geotechnical research team, under the leadership of Joseph Wartman from Drexel University and Adrian Rodriguez-Marek of Washington State University.

The group will report on the geological, structural, social, and economic impacts of the earthquake. Their initial findings will be posted on EERI's web site and published as an insert in EERI's *Newsletter*. Preliminary reports indicate that the damage is primarily to poorly constructed confined masonry buildings and older adobe structures. A hospital has been evacuated in the area, a power plant shut down, and some damage to the port of Manzanillo has been reported. For more information, contact EERI staff member Marjorie Greene at [mgreene@eeri.org](mailto:mgreene@eeri.org).

## News of the Profession

### Nominations for Trifunac Award

EERI member M. D. Trifunac, honorary fellow of the Indian Society of Earthquake Technology (ISET) and professor of civil engineering at the University of Southern California, has instituted an "ISET Trifunac Award for Significant Contributions in Strong Motion Earthquake Studies." The award will consist of Indian Rs. 25,000 (approximately \$500) and a citation. For the year 2002, the nominees may be engineers, scientists, and researchers from anywhere in the world, regardless of nationality, who have worked in strong motion earthquake studies. Nominations for the award may be forwarded by members or fellows of ISET. Nominations on plain paper must reach the President of ISET, Department of Earthquake Engineering Building, Indian Institute of Technology, Roorkee – 247 667, India, on or before February 15, 2003. Six copies of a detailed curriculum vitae must be sent, including the nominee's date of birth and complete contact information, plus a statement of 500 words on the nominee's significant contributions. For further information, please contact Vinay K. Gupta, Editor, ISET, at [vinaykg@iitk.ac.in](mailto:vinaykg@iitk.ac.in).

### Scientists Update New Madrid Forecasts

Scientists from the U.S. Geological Survey and the Center for Earthquake Research and Information at the University of Memphis have updated their expectations for New Madrid seismic zone earthquakes. For example, the new forecasts estimate a 7 to 10% chance, in the next 50 years, of a repeat of a magnitude 7.5 to 8.0 earthquake like those that occurred in 1811-1812. A fact sheet with the new information is available on the web at [pubs.usgs.gov/fs/fs-131-02/](http://pubs.usgs.gov/fs/fs-131-02/).

## News of the Institute

### Endowment Fund Donors

The Endowment Fund donations listed below were received in December. EERI's Endowment supports those innovative projects that ensure the Institute's continuing leadership in the earthquake engineering professions. **Thanks to all who gave their support in 2002.**

#### \$5000

David A. Friedman and  
Paulette J. Meyer

#### \$501-\$1000

Clarence R. Allen  
Joseph Penzien

#### \$201-\$500

Craig D. Comartin  
William J. Correia  
Asadour H. Hadjian  
I. M. Idriss  
James K. Mitchell  
Roland & Jane Sharpe  
Pane Stojanouski

#### \$100-200

John L. Aho  
Christopher Arnold  
Donald Ballantyne  
Carlos Baltodano  
James E. Beavers  
Roger D. Borchardt  
David Breiholz  
L. LeRoy Crandall  
Andrew J. Eggenberger  
Richard Eisner  
Juan Carlos Esquivel  
Douglas A. Foutch  
Sigmund A. Freeman  
Joseph C. Gehlen  
Ruth V. Gordon  
Jacob Grossman  
Sunil Gupta  
Ronald O. Hamburger  
Robert D. Hanson  
Richard L. Hess  
Thomas L. Holzer  
Saif M. Hussain

Jesus Iglesias

Mary Jacak  
James O. Jirsa  
Julio Kuroiwa  
James S. Lai  
George C. Lee  
Gerald D. Lehmer  
Frank J. Linhart  
LeVal Lund  
Terry R. Lundeen  
Kenneth Luttrell  
Neven Matasovic  
Ronald L. Mayes  
Frank E. McClure  
Andrew T. Merovich  
John D. Meyer  
Dennis Mileti  
Warren A. Minner  
Naser Mostaghel  
Vilas Mujumdar  
Joseph P. Nicoletti  
Douglas J. Nyman  
T. D. O'Rourke  
William J. Petak  
Ellen Rathje  
C. Mark Saunders  
Anthony F. Shakal  
Erik Soderberg  
Robert J. Swain  
Susan K. Tubbesing  
Anestis S. Veletsos  
Edward L. Wilson  
Thomas D. Wosser  
N. F. Jack Yaghoubian  
Timothy Yeun  
T. Leslie Youd  
Edwin Zacher

#### Other Amounts

Sergio M. Alcocer  
Raymond W. Anderson  
Deborah B. Beck  
Bedros Bedrosian  
David Bonneville  
Remy Bossu  
Linda Bourque  
Ian G. Buckle  
Finley A. Charney  
Michael Davister  
Ricardo Dobry  
Charles Eadie  
Barbara Foster  
Catherine French  
John F. Hall  
John R. Hayes Jr  
Richard C. Hepworth  
Ephraim Hirsch  
George F. Horowitz  
Hossein Mohazzab  
Hosseinian  
Larry C. Hultengren  
Tara Hutchinson  
Klaus H. Jacob  
Norman Janke  
Donald K. Jephcott  
Mohammad Joolazadeh  
Aristotle Kakaliagos  
Michael E. Kreger  
Frederick Krimgold  
David H. Lee  
Roberto T. Leon  
Murray Levish  
Marshall Lew  
John Meehan  
Linda Noson  
Irving J. Oppenheim  
Michael J. O'Rourke  
Baki M. Ozturk  
Jane Preuss  
Richard C. Quittmeyer  
Fred M. Turner  
Terence A. Weigel  
Shoichi Yamaguchi



## Announcements

### PEER Annual Meeting

The 2003 Pacific Earthquake Engineering Research (PEER) Center Annual Meeting will take place March 7-9 at the Palm Springs Riviera Resort. PEER also welcomes other researchers and earthquake professionals interested in learning about PEER research and furthering its programs. The purpose of the meeting will be to focus discussion and gather ideas on several key topical areas that will guide the direction of PEER research in the next several years, including the role of the PEER methodology in establishing design algorithms for practical application, defining the role of and means of implementing performance-based earthquake engineering, defining research needs at the interface between ground motion and structural simulation (including selection of ground motions and soil-structure-foundation interaction), and integrating PEER research to develop next generation attenuation relations and improved risk analysis for distributed systems. For more information, visit [peer.berkeley.edu](http://peer.berkeley.edu).

### NSF Program on Sensors and Sensor Networks

The National Science Foundation (NSF), through the Directorate for Engineering and the Directorate for Computer and Information Science and Engineering, has announced a broad interdisciplinary program of research and education in the area of advanced sensor development.

Proposals, due March 6, 2003, are being solicited to advance fundamental knowledge in the areas of sensor design, materials and concepts (including sensors for toxic chemicals, explosives, and biological agents), sensor networking sys-

tems in a distributed environment, the integration of sensors into engineered systems, and the interpretation and use of sensor data in decision-making processes.

For more information visit [www.nsf.gov/pubs/2003/nsf03512/nsf03512.htm](http://www.nsf.gov/pubs/2003/nsf03512/nsf03512.htm).

### AISC Conference on Steel Construction

The North American Steel Construction Conference, sponsored by the American Institute of Steel Construction, Inc. (AISC), will be held April 2-5, 2003, in Baltimore, Maryland. This conference for design and construction professionals will feature industry experts on more than 45 topics. Six special events will also be offered, along with more than 200 industry-related exhibit booths with the latest product innovations. To obtain a full program, visit [www.aisc.org/nascc](http://www.aisc.org/nascc) or call 312/670-8311.

## Call for Abstracts

### XI Ibero-American Earthquake Engineering Seminar

Authors are invited to submit abstracts by March 15 for the XI Ibero-American Seminar on Earthquake Engineering, which will be held August 25-27, 2003, in Mendoza, Argentina.

The abstract should not exceed 300 words and should include title, authors, authors' affiliations, and contact address.

The following subjects are encouraged: seismic design of structures, seismic risk evaluation and mitigation, seismic codes, experimental research, numerical methods, structural dynamics, seismic assessment and retrofit, lifelines, past earthquakes, seismology, and geotechnical engineering.

For more information, visit [sibis.uncu.edu.ar](http://sibis.uncu.edu.ar) or contact Francisco Crisafulli ([sibis@uncu.edu.ar](mailto:sibis@uncu.edu.ar)).

## News of the Institute

### EERI Annual Meeting Travel Grant Recipients

With support from FEMA, several travel grants have been awarded to encourage student members and young professional EERI members (out of school no more than three years) to attend this year's Annual Meeting in Portland. Students' support was contingent upon participation in the student paper competition or the poster session, either through the applicant's own research project, or as a representative of a student chapter depicting the chapter's activities. The travel grant recipients are:

Afsin Canbolat	University of Michigan
Leonardo Duenas-Osorio	Georgia Tech
Ayse Hortacsu	Weidlinger Associates
Erol Kalkan	Rensselaer Polytechnic Institute
Anna Lang	Tipping Mar & Associates
Brian Morgen	University of Notre Dame
Taichiro Okazaki	University of Texas at Austin
Michael Pollino	State University of New York (SUNY) at Buffalo
Tyler Ranf	University of Washington
Paul Richards	University of California, San Diego
Siva Sivathasan	Kleinfelder, Inc.
Jennifer Tanner	University of Texas at Austin
Gordon Warn	SUNY at Buffalo

## 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**.

### 2003

#### FEBRUARY

3-6. IMAC Conference and Exposition on Structural Dynamics, Kissimmee, FL. Info: [www.sem.org](http://www.sem.org) (5/02).

5-8. EERI Annual Meeting, Portland Marriott Downtown, Portland, OR. Info: [www.eeri.org](http://www.eeri.org) (9/02, 10/02, 11/02, 12/02, 1/03).

13-15. Pacific Conference on Earthquake Engineering, Christchurch, New Zealand. Info: [www.nzsee.org.nz/pcee](http://www.nzsee.org.nz/pcee) (12/02)

20-21. Landslide and Analysis Workshop. Los Angeles, CA. Info: [www.sceec.org/resources/landslide.html](http://www.sceec.org/resources/landslide.html) (12/02)

23-26. Catastrophe Management for the Americas, Orlando, FL. E-mail: [eqecat@absconsulting.com](mailto:eqecat@absconsulting.com) (12/02)

#### MARCH

7-9. PEER Annual Meeting, Palm Springs, CA. See page 6. (2/03).

24-27. 7th US/Japan Workshop on Urban Earthquake Hazard Reduction, Maui, HI. info: [www.eeri.org/titlepage.html](http://www.eeri.org/titlepage.html) (10/02)

#### APRIL

2-5. AISC North American Steel Construction Conference, Baltimore, MD. See page 6. (2/03)

21-23. Disaster-Resistant California Conference, San Jose, CA. Info: [www.sjsu.edu/cdm/drc03](http://www.sjsu.edu/cdm/drc03) (9/02).

20-May 2. SSA-2003 Annual Conference, San Juan, Puerto Rico. Info: [civil.uprm.edu/ssa-2003](http://civil.uprm.edu/ssa-2003). (11/02).

#### MAY

9. 2003 Los Angeles Tall Buildings Council, Los Angeles, CA. Info:

[gbrandow@bjase.com](mailto:gbrandow@bjase.com) (11/02)

12-14. 4th International Conference on Earthquake Engineering and Seismology, Tehran, Iran. Info: [iees@dena.iees.ac.ir](mailto:iees@dena.iees.ac.ir) (6/02)

22-23. NEES Consortium First Annual Meeting Info: [www.nees.org](http://www.nees.org) (2/03)

26-30. 5th National Conference on Earthquake Engineering, Istanbul, Turkey. Info: [www.ins.itu.edu.tr/Sudmk](http://www.ins.itu.edu.tr/Sudmk) (8/02)

29-June 1. ASCE 2003 Structures Congress, Seattle, WA. Info: [www.asce.org/conferences/structures2003/](http://www.asce.org/conferences/structures2003/) (11/02)

#### JUNE

1-4. 9th North American Masonry Conference, Clemson, SC. Info: [www.masonrysociety.org/Conferences/9NAMCmain.html](http://www.masonrysociety.org/Conferences/9NAMCmain.html) (8/02)

9-12. 4th International Conference on the Behavior of Steel Structures in Seismic Areas, Naples, Italy. Info: [www.daps.unina.it/stessa/congres.htm](http://www.daps.unina.it/stessa/congres.htm) (6/02)

16-20. 21st Congress of the International Commission on Large Dams (ICOLD), Montreal, Canada. Info: [www.cigb-icold.org](http://www.cigb-icold.org) (2/03)

#### JULY

6-9. 9th International Conference on Applications of Statistics and Probability in Civil Engineering, San Francisco, CA. Info: [icasp9.berkeley.edu](http://icasp9.berkeley.edu) (6/02)

11-12. Park and Paulay Symposium, Christchurch, New Zealand. Info: [www.civil.canterbury.ac.nz](http://www.civil.canterbury.ac.nz) (1/03).

#### AUGUST

3-6. Extreme Loading Conference, Toronto, Ontario, Canada. Info: [www.extremeloading2003.com](http://www.extremeloading2003.com) (6/02).

10-13. 6th U.S. Conference and Workshop on Lifeline Earthquake Engineering (TCLEE), Long Beach, CA. info: [www.asce.org/](http://www.asce.org/)

[conferences/tclee2003/](http://conferences/tclee2003/) (9/02)

#### SEPTEMBER

18-20 2003 SEAOC Convention, Lake Tahoe, CA. E-mail: [thale@oshpd.state.ca.us](mailto:thale@oshpd.state.ca.us). (12/02)

22-24. 4th International Conference on Earthquake-Resistant Engineering Structures, Ancona, Italy. Info: [www.wessex.ac.uk/conferences/2003/eres03/](http://www.wessex.ac.uk/conferences/2003/eres03/) (8/02)

#### OCTOBER

6-10. 8th World Seminar on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures, Yerevan, Armenia. info: [www.aua.am](http://www.aua.am) (10/02)

22-24. 28th Annual Conference on Deep Foundations, Miami Beach FL. Info: [www.dfi.org/conferences.asp](http://www.dfi.org/conferences.asp) (1/03)

#### DECEMBER

16-18 9th East Asia Pacific Conference on Structural Engineering and Construction, Bali, Indonesia. Info: [www.si.itb.ac.id/easec9](http://www.si.itb.ac.id/easec9) (10/02)

#### 2004

#### APRIL

13-17. 5th International Conference on Case Histories in Geotechnical Engineering, New York, NY. Info: [www.umn.edu/~eqconf/5thCHConf](http://www.umn.edu/~eqconf/5thCHConf) (8/02, 1/03)

#### MAY

22-26. Structures 2004, Nashville, TN. Info: [www.asce.org/conferences/structures2004/](http://www.asce.org/conferences/structures2004/) (8/02)

#### JULY

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

#### AUGUST

1-6. 13th World Conference on Earthquake Engineering, Vancouver, British Columbia, Canada. Info: [www.13wcee.com](http://www.13wcee.com) (7/02)

8-11. MOVIC 04 Motion and Vibration Control Conference, Washington University, St. Louis, MO (11/02)

## News of the Institute

### Additions to World Housing Encyclopedia

The EERI-IAEE (International Association of Earthquake Engineering) project to link engineers, architects, and builders around the world, sharing knowledge about housing construction design and practice, continues to grow and draw in new participants. Given the large number of new visitors every month (averaging 3,000), the web site programmers at John Martin and Associates have finished a new entry page that explains the purpose of the project and directly acknowledges that it supports the United Nations International Strategy for Risk Reduction. Additional materials continue to be posted each month in the general resources section. Two manuals (in Spanish) prepared by consulting engineer Luis Mejía C. of Medellín, Colombia, have recently been posted.

In addition, project organizers are developing resource sections for each of the major construction materials. Work is underway by Marcial Blondet of Peru and his student Jose A. Yabar B. to identify appropriate background articles and manuals on adobe and post them on the web site. The project continues to act as a focal point for those interested globally in housing construction in seismically prone areas, serving as a resource and network to link people with information and experts in the field.

The web site soon should have completed entries describing wood construction in Japan and multistory wood construction in the United States. New participants are continually welcome, particularly from countries that are underrepresented or not represented in the encyclopedia, including the United States, New Zealand, and Mexico. The web site designers have programmed the site so that it is easy to work online. A participant can answer one or two questions at a time, and come back to the online form when convenient. No form is posted without a technical review; work that is ongoing is not visible to anyone. In the next year, the goal is to get another 70 or 80 forms, including forms from critical, high-seismic-risk countries that are not yet represented. Additional information is available from the web site at [www.world-housing.net](http://www.world-housing.net) or by contacting project chair Svetlana Brzev at [sbrzev@bcit.ca](mailto:sbrzev@bcit.ca) or EERI project manager Marjorie Greene at [mgreene@eeri.org](mailto:mgreene@eeri.org).

## Call for Abstracts

### 2003 Dam Safety Conference

The 20th Annual ASDSO Conference (Association of State Dam Safety Officials) will be held September 7-10, 2003, in Minneapolis, Minnesota.

Engineers, geologists, hydrologists, dam owners, and industry representatives as well as local, state, and federal officials are invited to share their experiences in all aspects of dam safety.

Abstracts for presentations are solicited on the following topics: dam failures and incidents, hydrology and hydraulics, geotechnical issues, security and emergency preparedness, dam design and rehabilitation, dam inspections, removal of dams and environmental issues, dam safety regulatory programs, hydraulics and public safety of low-head dams, dam owner issues, dam construction, and multidisciplinary issues.

The deadline for 300-word abstracts is February 14, 2003. For more information on the conference, visit [www.damsafety.org](http://www.damsafety.org).



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

PRSR FIRST CLASS  
U.S. POSTAGE PAID  
Sundance Press  
85719