

**EARTHQUAKE ENGINEERING
RESEARCH INSTITUTE
NEWSLETTER**

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News of the Profession

**Turkish Request for
Publications**

The Earthquake Research Department (ERD) of the Directorate for Disaster Affairs of the Ministry of Public Works, Turkey, has a request for researchers and users of Turkish strong-motion data recorded during the 1999 events as well as prior events. The ERD would like to receive any relevant publications that made use of the Turkish data. These publications would assist in the establishment of earthquake hazard mitigation policies and measures in Turkey. Those wishing to contribute publications should send them to: Mr. Ulugbey Ceken, Deprem Arastirma Merkezi, Afet Isleri Genel Mudurlugu, Inonu Bulvari-Eskisehir Yolu, Ankara, Turkey; e-mail: ulugbey@deprem.gov.tr.

News of the Institute

Roundtables Featured at 53rd Annual Meeting

How do universities and critical facilities contend with dilemmas in managing risk? At EERI's 53rd Annual Meeting, scheduled for February 7-10 in Monterey, California, two roundtables will deal with these topics from engineering and policy perspectives.

The Universities Roundtable will cover seismic decision making, establishing ground motions for performance standards, and issues in both the University of California at Berkeley and Stanford University seismic retrofit programs.

The Critical Facilities Roundtable will focus on implications of the State of California's Hospital Act. It will consider the views of health care administration, engineering practice, the state government, and the private sector.

The meeting will also feature a spirited debate on the capacity to define acceptable risk. The debaters will be Chris Poland of Degenkolb Engineers, Mary Comerio of UC Berkeley, and Simon Wilkie of Caltech.

To support and encourage participation by EERI's younger members, student members are being offered half-price registration (\$215) for the full Annual Meeting. Students and young professionals (age 35 and under) are eligible for a special Saturday-only registration for only \$35. The Saturday program includes a presentation on the NEES (Network for Earthquake Engineering Simulation) program, a session on risk management challenges facing public entities, a look at the way in which seismic risk is being dealt with internationally, and a discussion about the design and construction of the world-renowned Monterey Bay Aquarium.

The program brochure containing a meeting registration form and hotel information has been mailed to all members.

Keep in mind that for EERI to fill its room block and for you to obtain the best room rate, you must make your hotel reservation by January 7, 2001. (If necessary, you can cancel hotel reservations up to 24 hours before arrival without penalty.)

Nonmembers who become members when registering will get a \$15 discount on their 2001 membership, and will qualify for the member registration fee of \$425 instead of the non-member rate of \$450.



Coast near Monterey (photo courtesy of Monterey Convention & Visitors Bureau)

News of the Institute

Members Will Vote on Change to the Articles of Incorporation

EERI members will be asked to amend formally Article VI of the Institute's Articles of Incorporation. EERI was advised by its auditors to revise this article to cite the specific Internal Revenue Code 501 (c) (3) that will ensure that EERI will be exempt from personal property taxes. On March 3, 2000, the EERI Board of Directors adopted the following statement. New wording is indicated by bold text, and deleted text is indicated by strike-through:

*Upon dissolution of the corporation, after paying or adequately providing for all the debts and obligations of the corporation, the remaining assets, if any, ~~shall be divided~~ **are irrevocably dedicated** in such proportion as the regular members may determine...under the provisions of the Federal Internal Revenue Code, **Section 501 (c) (3)**. In the event that none of the foregoing institutions should so qualify, then the remaining assets shall be distributed among scientific or educational institutions **meeting the requirements for exemption provided by Section 214 of the Revenue and Taxation Code** as shall be selected by regular members.*

All EERI members eligible to vote (regular and honorary members) should have received the ballot for this year's election. The terms of Directors Norman Abrahamson and Thomas O'Rourke expire in February 2001. Nominated to fill the two slots are Sergio Alcocer, Fumio Yamazaki, Arrietta Chakos, and Svetlana Nikolic-Brzev. The election materials include biographies of and vision statements by each of these candidates. Voters are also asked to confirm President-Elect Chris Poland as President. Current President Chris Arnold will become Past President and remain on the Board. Be sure to mail your ballot so that it is received by January 1, 2001. Contact the EERI office if you have not received it.

News of the Profession

Strong Earthquakes Hit Indonesia and Papua New Guinea

An earthquake of magnitude 6.8 hit the western part of the Indonesian island of Java, including the capital Jakarta, on Wednesday, October 25. A blackout occurred in several parts of Jakarta and in the town of Pandeglang. Initial reports estimate 1200 houses were destroyed, and economic losses amount to about \$1.5 million. No casualties were reported. October 25 was a national holiday and most of the population was at home. The epicenter was about 72 kilometers southwest of Panaitan Island, on the western tip of Java, which is over 200 kilometers southwest of Jakarta.

Three major earthquakes and numerous aftershocks struck the Papua New Guinea island of New Britain in November. A magnitude 8.0 event hit on Thursday, November 16, followed three hours later by a magnitude 7.7 event, and one day later by a magnitude 6.8 event. No injuries or major damage were reported in the island's main center, the port town of Rabaul. The magnitude 8.0 event generated a small tidal wave. In 1998, 2500 people were killed on the north coast of Papua New Guinea by a tsunami generated by two magnitude 7 earthquakes in the region.

News of the Profession

New Ethics Case Study: Would You Lower a PML Value for a Client?

Have you ever been asked by a client to refine a probable loss value for a building so that the number comes in below a certain percentage? The latest ethical dilemma posted on the EERI web site poses this exact question. ABC Engineers is approached by one of their important clients to perform Probable Maximum Loss (PML) evaluations for two of its properties located in a region of high seismicity. The client's insurance company is requiring the PML as a prerequisite for refinancing a loan. One building is a one-story tilt-up structure built in the early 80s and the other is a three-story office building built in the 1950s. The PML for both structures is slightly greater than 20%. Based on their extensive experience with existing buildings, the engineers' opinion is that the tilt-up building is probably worse than the PML indicates, and that the types of expected damage could be life-threatening. However, it is their opinion that the office building does not pose as great a risk as indicated by the PML value, and the expected damage, though costly, is not likely to be a serious risk to life safety.

The client re-contacts ABC Engineers, asking if there is any way that the PML values for both buildings could be "refined" so that the results are less than their 20% limit.

What should ABC Engineers do?

This latest case study in the EERI Ethical Dilemmas web series has been posted on the EERI web site. Log onto www.eeri.org and participate in the discussion by voting on a possible course of action.

News of the Membership

Cluff Receives John Wesley Powell Award



Lloyd Cluff

Lloyd Cluff, Pacific Gas and Electric Company's (PG&E) Geosciences Director, an EERI Past President and an Honorary Member, received this year's John Wesley Powell Award, the U.S. Geological Survey's (USGS) highest honor. The Powell award is bestowed on scientists and organizations that make outstanding contributions through leadership to further the mission of the USGS. Cluff accepted the award, not only for his own personal leadership and contributions, but also for those of PG&E for the improved seismic safety and reliability of gas and electric systems.

For more than 30 years, Cluff has spearheaded the drive to reduce the risks of earthquake hazards in the United States and in other earthquake-prone nations around the world. From 1985 through 1999, Cluff served as commissioner, vice-chairman, and chairman of the California Seismic Safety Commission. He played active roles as well in other seismic safety efforts, such as those of the Department of Energy, the Nuclear Regulatory Commission, the Office of Science and Technology Policy, the National Science Foundation, and the National Research Council.

News of the Institute

James Kelly Named EERI's Distinguished Lecturer for 2001

James M. Kelly, professor in the Division of Structural Engineering Mechanics and Materials in the University of California at Berkeley's Department of Civil and Environmental Engineering, has been chosen to give EERI's 2001 Distinguished Lecture. The subject area of his lecture will be the Design of Seismic Isolated Structures.

An EERI member since 1982, Kelly was nominated by the Honors Committee in recognition of his basic contributions to the development of base isolation technologies for the design of seismic isolated structures. He has made continuing fundamental contributions to these technologies as well as to their design applications. He has carried out numerous large-scale experimental studies of isolation systems, structures with energy-absorbing devices, and structures with piping systems. He has recently been involved in the development of energy-absorbing devices for the seismic protection of tall structures for which base isolation is not feasible. Professor Kelly has been the leading proponent in the United States of using multilayer elastomeric bearings for the seismic protection of buildings, and through the United Nations Industrial Development Organization, he has been instrumental in developing low-cost seismic isolation systems for the protection of housing and other structures in earthquake-prone developing countries.

He has just published the second edition of his book based on his research and testing (*Earthquake-Resistant Design with Rubber*, 2nd ed.), which applies this research for the design of base isolation systems using natural rubber isolators. He is also co-author with Farzad Naeim of the text *Design of*



James M. Kelly

Seismic Isolated Structures. Because seismic isolation technologies are now broadly used in the practice of earthquake engineering design, this Distinguished Lecture will be both timely and valuable to EERI members. Kelly will present it for the first time at the 53rd EERI Annual Meeting on Thursday, February 8, 2001, in Monterey, California. Groups interested in having Kelly present the lecture subsequently should contact the EERI office.

Announcements

EERI Technical Seminar on Energy Dissipation Devices

A seminar on Seismic Design with Supplemental Energy Dissipation Devices will be held in two California locations in January 2001. The first is Monday, January 8, in San Francisco, and the second is Tuesday, January 9, in Pasadena.

The four-hour seminar is based on the final draft of EERI's latest monograph of the same title, by Robert D. Hanson and Tsu T. Soong. Watch your mail for a registration flyer, or contact the EERI office for more information.

News of the Insitute

Endowment Projects Update

The two EERI Endowment projects supported in 2000 have been making great progress:

1. *Encyclopedia of Housing Construction Types in Seismically Prone Areas of the World*

This project, developed jointly with IAEE, is collecting detailed descriptions of construction types from around the world and posting them on a project web site maintained by John A. Martin & Associates at www.johnmartin.com/EERI. These descriptions will then be entered into a database that will be programmed to allow for on-line analysis, comparison, and contrast. Users will be able to instantaneously generate tables and graphs that compare across many of the variables available for each construction type, including details of construction and typical retrofit strategies. Currently there are about 25 construction types on the web site from countries as disparate as Uzbekistan, Syria, Nepal, and Italy, with another 25 that are going through preliminary review and will be posted soon. Examples will soon be posted from Taiwan, Turkey, and Greece as well as the Former Yugoslavia, Russia, Mexico, and numerous other countries. The project committee hopes to have a first draft of the programmed database on-line by next summer, but will continue to post the detailed descriptions as they arrive. The project welcomes further participation, and is now actively soliciting examples from countries such as the U.S., New Zealand, Japan, Australia, and Canada. Log onto the web site to find the form, instructions to participants, the scope of the project, and a roster of participants. For questions, contact project chair Svetlana Brzev at sbrzev@bcit.ca or EERI staff Marjo-

rie Greene at mgreene@eeri.org.

2. *Local Government Risk Management*

This project has been developed jointly with the Public Agency Risk Managers Association (PARMA) of California to improve communication between the risk management and earthquake engineering communities. Project chair Bill Petak has led a joint committee in activities to facilitate communication, including the publication and dissemination of earthquake risk management information, creation of a small task force to monitor legislative issues of joint interest, presentations at each others' annual meetings, and joint newsletter articles and web site links. PARMA representatives will be speaking at the EERI Annual Meeting in Monterey in February, and EERI representatives will speak at the PARMA Annual Meeting the following week. Check out the EERI web site at www.eeri.org to see the new Endowment feature describing this project and providing links to a number of important new reports on risk and to agencies and organizations providing earthquake risk information.

Annual Fall Fundraising Campaign

Letters are being mailed soliciting annual contributions to the Endowment Fund. This is a critical year for the growth of the Endowment, which has almost reached the halfway point in the campaign to raise \$2 million. Endowment activities continue to bring visibility to the Institute, particularly through programs such as the Visiting Professional program and the Housing Encyclopedia, which has over 120 participants from all around the world.

In addition to the two new projects this year, the Endowment has supported 14 other activities in the last five years, a fairly remarkable feat given the rela-

tively modest sums that are typically spent on each project. Please consider giving generously when you receive your letter. Your support is what makes all these activities possible.

This year for the first time, the Development Committee has initiated a special corporate giving program to solicit corporate gifts for the Endowment. If you would like to discuss a possible corporate gift, please feel free to contact David Friedman, chair of the Development Committee, or Chris Poland, EERI President-Elect.

News of the Profession

CUREe Changes More Than Its Name

By a near-unanimous vote of the membership of California Universities for Research in Earthquake Engineering (CUREe), a fundamental change in their bylaws has been made to allow universities across the country to apply for membership. The name of the re-organized non-profit corporation is Consortium of Universities for Research in Earthquake Engineering (CUREE).

CUREE retains its prime purpose: developing and utilizing the capabilities of faculty and other resources at the engineering schools of research universities, applying those resources to the field of earthquakes, and thereby producing public benefits in terms of research, education, and implementation of earthquake risk reduction. University and individual faculty applications for membership are actively solicited.

Applications and further information may be obtained from the CUREE website (www.curee.org) or by phoning the CUREE office at 510/231-9557, faxing via 510/231-5664, or via e-mail at curee@curee.org.

News of the Institute

6th International Conference on Seismic Zonation a Success – Publications Available

EERI's 6th International Conference on Seismic Zonation (6ICSZ) was attended by more than 350 participants from 31 countries. Almost half of the attendees were from outside of the United States. More than 200 papers were presented in either plenary sessions or as posters in the following topic areas:

- 1) New Mapping Technologies
- 2) New Developments in Hazard Estimation
- 3) Seismic Hazard Mapping for Engineering and Codes
- 4) Seismic Mapping, Planning, and Local Government Policy
- 5) Financial Risk Management
- 6) Lifelines and Utilities

Participants were enthusiastic about the quality of the technical presentations and enjoyed the combined plenary-poster session format. The technical field trip was also a great hit, with over 90 participants visiting four projects in the San Bernardino Valley where seismic mitigation decisions had been made. EERI wishes to thank the organizing committee, chaired by Les Youd and comprised of Ray Burby, Bruce Clark, Lloyd Cluff, Stephanie King, Charles Kircher, Charles Real, and Paul Somerville.

If you missed the conference yourself, you can still read all the

technical papers. The conference **CD-ROM** contains the text of more than 200 papers presented in both plenary and poster sessions, as well as the program. The papers are fully text searchable and can be printed out. The CD-ROM contains an author index, alphabetical title index, and papers listed by topic area. The special on-site conference price is \$150 plus shipping (plus tax for California residents), and is offered on all orders received through December 31, 2000. After that, the price goes up to \$200.

Orders for the CD-ROM will be accompanied by the 300-page paperbound 6ICSZ **Abstract Vol-**



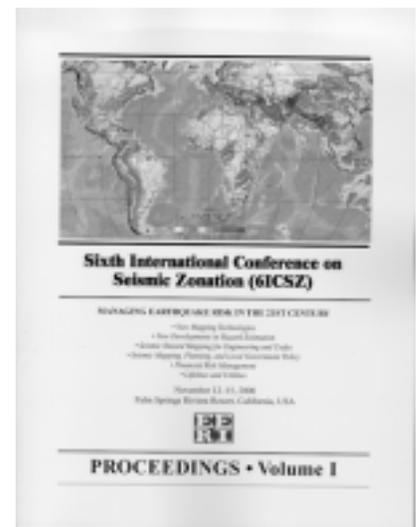
Above: Cover of 6ICSZ CD-ROM

Right: Printed Proceedings cover

ume until the volume is out of stock. It can also be purchased separately for \$25 plus shipping (plus tax for California residents). In addition to over 200 half-page abstracts, it contains the full text of the keynote papers delivered in the topic areas #2 through #6 listed above. It is organized by topic area with a comprehensive table of contents and author index.

The **Proceedings** were also issued in a two-volume paperbound hard copy in black ink only, totaling more than 1400 pages. They are available for \$150 plus shipping (plus tax for California residents). It is organized by topic area with comprehensive tables of contents and author indexes.

See side two of the enclosed insert sheet to place an order for any 6ICSZ publication.



Call for Abstracts

12th European Conference on Earthquake Engineering

The Twelfth European Conference on Earthquake Engineering will be held September 9-13, 2002, at the Barbican Center in London, UK. The conference will include both oral and poster paper sessions, as

well as keynote and special lectures. The technical affairs committee is currently soliciting abstracts, with a special invitation to colleagues from outside Europe. The topics for abstracts include: Engineering Seismology; Geotechnical Earthquake Engineering; Structural Earthquake Engineering; Buildings; Structural Earthquake Engineering: Special Structures; Risk Assessment and Mitigation; and Field Reports.

The preferred method of abstract submission is via the conference web site at www.12ecee.org.uk. The deadline for submission is January 31, 2001.

For more information, see the conference web site, or contact: Rachel Coninx, 12ECEE Secretariat, One Great George Street, London SW1P 3AA, UK; phone: +44(0)20 7665 2314; fax: +44(0)20 7233 1743; e-mail: 12ECEE@ice.org.uk.

News of the Institute

Endowment Donors

The following contributions to the Endowment Fund have been recently received.

Corporate Giving

Coughlin Porter
Lundeen Inc.

\$1000

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I M Idriss
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John O Robb
Stanley Scott
Otto W Steinhardt
Alexander Tarics
Donald O Wagener
Eugene J Zeller

Publications

Assessment of NIST Testing Facility

The Applied Technology Council (ATC) has announced the availability of the ATC-53 Report, *Assessment of the NIST 12-Million-Pound (53 MN) Large-Scale Testing Facility*. This 44-page report documents the findings of an ATC Technical Panel engaged to assess the viability of the National Institute of Standards and Technology (NIST) 30-year-old, 12-million pound (53 MN) Universal Testing Machine located at NIST headquarters in Gaithersburg, Maryland. The facility had been constructed originally for the purpose of calibrating large-force-measuring devices and for compression or tension-based research on large structural members. Copies of the ATC-53 report can be obtained from ATC, phone: 650/595-1542, fax: 650/593-2320, e-mail: atc@atcouncil.org, web site: www.atcouncil.org.

Seismic Design Manual

The third volume of the popular Seismic Design Manual Series has recently been completed. Available now, the *Seismic Design Manual, Volume III, Building Design Examples: Steel, Concrete and Cladding* is the final addition to a trilogy dedicated to providing a link between building codes and everyday engineering practice by offering practical advice and design examples. Volume I covers code application, and Volume II covers masonry, light-frame, and tilt-up. Volume III covers steel braced frames, steel moment-resisting frames, concrete shear wall, precast cladding, and more. For more information, contact the International Conference of Building Officials at 800/284-4406, or see www.icbo.org.

News of the Profession

Bridge Engineering Student Paper Competition

The Civil Engineering Program at the University of Nevada, Reno, will recognize outstanding graduate student contributions to the state-of-the-art in bridge engineering through a research paper competition. The author of the winning paper will receive \$1000 cash, a medal, and an award certificate. The funding for the competition and award is provided through an endowment established by Simon Wong, San Diego, California, an alumnus of the Civil Engineering Department at the University of Nevada, Reno. Original papers are sought that describe research conducted by PhD or Masters students in civil engineering, addressing innovative approaches or concepts applied to bridge engineering. The announcement section of the Bridge Research and Information Center web site at bric.ce.unr.edu contains the guidelines for paper preparation and submission. The deadline for receiving the entries is January 15, 2001. For additional information contact M. Saiid Saiidi at saiidi@unr.edu.

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**.

2000

DECEMBER

4-5. Earthquake Disaster Preparedness Conf., Kampala, Uganda. Info: physics@starcom.co.ug (9/00)

7. EERI Seminar on Earthquake Engineering Issues, Los Angeles, CA. Info: www.eeri.org (10/00)

13-15. ASD 2000, Hong Kong. Info: ceylxu@polyu.edu.hk (3/00)

2001

JANUARY

7-12. Conference on Computer Methods and Advances in Geomechanics, Tucson, AZ. Info: intermix.engr.arizona.edu/~epd/#IACMAG (11/99)

8. EERI Technical Seminar, San Francisco, CA. See page 3. (12/00)

9. EERI Technical Seminar, Pasadena, CA. See page 3. (12/00)

FEBRUARY

7-10. 2001 EERI Annual Meeting, Monterey, CA. Info: www.eeri.org. See page 1. (2/00, 10/00, 11/00, 12/00)

21-23. California GIS Conf., Sacramento, CA. Info: www.calgis.org (10/00)

26-March 2. Tall Buildings Conference, Melbourne, Australia. Info: www.icms.com.au/tbuh (9/00)

MARCH

19-22. International Symposium on Deformation Measurements, Anaheim, CA. Info: www.pasadena.wr.usgs.gov/scign/fig/ (3/00)

21-23. Safety, Risk, and Reliability - Trends in Engineering, Malta. Info: malta.2001@iabse.ethz.ch,

web site: www.iabse.ethz.ch/conferences/malta (11/99)

26-31. 4th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA. Info: prakash@umr.edu (6/99, 2/00, 6/00)

31-April 1. ASTM Symposium on Performance of Exterior Walls, Phoenix, AZ. Info: pjohnson@dt.smithgroup.com (4/00)

APRIL

16-20. Conf. on Civil Engineering in Asia, Tokyo, Japan. See page 7. (12/00)

18-20. SSA Annual Meeting, San Francisco, CA. Info: www.seismosoc.org/meetings/ (8/00)

MAY

21-23. ASCE Structures Congress 2001, Washington DC. Info: www.asce.org/conferences/structures-2001 (5/99, 8/99)

JUNE

4-6. SEM Annual Conference, Portland, OR. Info: www.sem.org (9/00)

12-14. IABSE Conference on Cable-Supported Bridges, Seoul, Korea. Info: secretariat@iabse.ethz.ch (5/00)

17-22. ICOSSAR 2001, Newport Beach, CA. Info: www.colorado.edu/engineering/ICOSSAR (6/00)

AUGUST

7-10. International Tsunami Symposium, Seattle, WA. Info: www.pmel.noaa.gov/its2001 (7/00)

12-17. SMIRT Conference, Washington, DC. Info: www.engr.ncsu.edu/SMIRT_16 (7/00)

16-19. International Conference on Engineering Materials, San Jose, CA. Info: mcmullin@email.sjsu.edu (3/00)

29-31. IABSE Conference on Wooden Structures, Lahti, Finland. Info: www.iabse.ethz.ch (8/00)

SEPTEMBER

4-6. ERES 2001, Malaga, Spain.

Info: www.wessex.ac.uk/conferences/2001/eres01/ (11/00)

OCTOBER

3-5. Modelling and Simulation in Civil Engineering, Paris, France. Info: www.enpc.fr/caquot/ (9/00)

7-10. SDEE'2001, Philadelphia, PA. Info: www.drexel.edu/sdee2001 (9/00)

2002

JULY

21-25. 7th National Conference on Earthquake Engineering, Boston, MA. Info: www.eeri.org (9/99)

SEPTEMBER

9-13. 12th European Conf. on Earthquake Engineering, London, UK. Info: 12ECE@ice.org.uk. See page 5. (9/00,12/00)

Announcements

Conference on Civil Engineering in Asia

The American Society of Civil Engineers (ASCE) is co-sponsoring, with five other countries' societies of civil engineering, the 2nd International Civil Engineering Conference in the Asian Region on April 16-20, 2001, in Tokyo, Japan. The Conference is hosted by the Japan Society of Civil Engineers. This stimulating and practical event will serve as a forum for sharing information about innovative technologies, practices, and programs from the United States and Asia. Conference attendees may choose one of three tracks: Construction and Management; Sustainable Development (with emphasis on natural hazard reduction); and Infrastructure and Information Technologies. There will also be a variety of technical site visits. For more information, see the web site: www02.u-page.so-net.jp/tg7/cecar/ or contact Noel Raufaste, ASCE, at 703/295-6169 or nraufaste@asce.org.

News of the Profession

Academic Job Opportunities

Stanford University, Stanford, California. Junior level tenure-track faculty position in Structural and/or Geotechnical Engineering. Interested individuals should have research interests in one or more of the following areas: advanced sensing technologies, advanced materials, structural health monitoring and control, laboratory testing, and information technologies.

Applicants are encouraged to apply by January 15, 2001. Contact: Anne S. Kiremidjian, Chair of Search Committee, Department of Civil and Environmental Engineering, Stanford University, Stanford, CA 94305-4020; e-mail: strgeo-search@ce.stanford.edu; web site: www-ce.stanford.edu/.

University of California, Davis, California. Tenure-track (Assistant or Associate Professor level) position in the area of structural engineering. Requirements include excellent potential for quality teaching and a demonstrated record of success in, or evidence of outstanding potential for, building a vigorous independent research program in structural dynamics/ earthquake engineering. Applications should be submitted by January 15, 2001. Contact: Structural Engineering Search Committee, Attn. Bruce L. Kutter, Department of Civil and Environmental Engineering, University of California, One Shields Ave., Davis, CA 95616-5294; e-mail: blkutter@ucdavis.edu; web site: cee.engr.ucdavis.edu/.

University of California, San Diego. Position at the Assistant or Associate Professor level to develop teaching and research activities in

the area of structural safety and reliability. Of primary interest are candidates with a proven strong background and research interests in two or more of the following: (1) reliability/probabilistic-based design and analysis methods for structural systems, (2) stochastic processes/ modeling of materials and structural systems, (3) risk management and decision making as applied to structural systems, (4) development of performance-based design methodology, and (5) life-time/ stochastic assessment of materials and structural systems response.

Applications will be accepted until December 31, 2000. Contact: Frieder Seible, Chair, Department of Structural Engineering, RE Faculty Search E-3796, University of California, San Diego, La Jolla, CA 92093-0085. Information about the department can be found at: www.structures.ucsd.edu.



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