

**EARTHQUAKE ENGINEERING
RESEARCH INSTITUTE
NEWSLETTER**

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**EARTHQUAKE ENGINEERING
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News of the Institute

**Election Results: O'Rourke Endorsed as
President-Elect, Comerio and Ballantyne
Elected to Board of Directors**



Thomas O'Rourke



Mary Comerio



Don Ballantyne

Thomas D. O'Rourke, Thomas R. Briggs Professor of Engineering in the School of Civil and Environmental Engineering at Cornell University, received the endorsement of the voters as President-Elect of the Institute. **Mary C. Comerio**, professor in the Department of Architecture at U. C. Berkeley, and **Donald Ballantyne**, P.E., vice president of lifeline services for ABS Consulting (formerly EQE International), were elected the newest members of the Board of Directors in the 2002 election. Many thanks go to the members of this year's Tellers Committee: Keith Knudsen of the California Division of Mines and Geology, Ed Matsuda of the Bay Area Rapid Transit District, and Zan Turner of the City and County of San Francisco.

O'Rourke, Comerio, and Ballantyne will be formally welcomed to their new posts at the Board Meeting in Long Beach on February 6. O'Rourke will serve one year as President-Elect, followed by two years as President and one year as Past President. He will take up the position left by Christopher Arnold, the current Past President, who is leaving the Board after four years of service. Current EERI President Chris Poland of Degenkolb Engineers will serve the second year of his two-year term this year, becoming Past President next year. Comerio and Ballantyne will each serve three years as directors, replacing Thalia Anagnos and Paul Somerville, whose terms have expired. EERI extends thanks to Arnold, Anagnos, and Somerville for their years of outstanding service and dedication to the Institute.

In addition to electing directors, members passed amendments to the Institute's bylaws establishing a new "young professional" membership category (see page 12 of the October *Newsletter*), and approved a change of two words in the Articles of Incorporation that was necessary for EERI to achieve property-tax-exempt status.

It is not too early to start thinking about next year's election of directors. The Nominating Committee welcomes suggestions from the membership, including self-nominations. 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 office. All submissions are confidential.



National Earthquake
Hazards Reduction
Program

MAE Center Recommended for Five-Year Renewal

The Blue Ribbon Panel, appointed by the National Science Foundation (NSF) Division of Engineering Education and Centers (EEC) to review the three earthquake engineering research centers, has approved a research plan and recommended renewal of the Mid-America Earthquake (MAE) Center for the next five years.

The MAE Center, headquartered at the University of Illinois at Urbana-Champaign, is starting its fifth year of operation. With this renewal, pending final approval by the NSF Engineering Review Board, the center will commence a second five-year phase focusing on development of engineering approaches that implicitly address reductions in earthquake consequences. Newly defined core research thrust areas on hazard definition, damage synthesis, and consequence minimization will complement needs of stakeholder partners within the insurance, construction, transportation, and building industries. Dan Abrams will continue to direct the MAE Center, and will be assisted by Jim Beavers, deputy director and coordinator of the center's Industry Collaboration, Outreach, and Technology Transfer Program, and Amr Elnashai, associate director in charge of research programs.

Quake Death Toll High in 2001

(Source: Associated Press)

GOLDEN, Colo. — The year 2001 was a particularly deadly year for earthquakes, with 65 significant temblors worldwide blamed for killing more than 21,000 people. The U.S. Geological Survey said most of the fatalities occurred in the magnitude 7.7 quake that struck northwestern India on January 26.

Strong earthquakes are rare in the remote Gujarat state, which borders Pakistan. Most of the almost 13,000 victims were trapped as thousands of dwellings and offices were reduced to rubble. "Dense urban populations coupled with weak building structures near the epicenters are responsible for most of the fatalities, in any year," said Waverly Person, director of the USGS National Earthquake Information Center.

In all, 21,436 people died in earthquakes last year, the USGS reported recently. The toll was significantly higher than in 2000, when 225 earthquake deaths were reported worldwide. On average, 10,000 people die in earthquakes annually, the USGS said. The deadliest earthquake in the past 100 years occurred in 1976 in Tangshan, China, where at least 240,000 died in a magnitude 7.8 event.

The largest earthquake in 2001 was a magnitude 8.4 off the coast of Peru on June 23. It caused more than 100 deaths, but the impact was reduced because of its offshore location. El Salvador suffered a pair of major quakes on January 13 and February 13 that killed 5,000. In the United States, a magnitude 6.8 earthquake struck the Seattle-Tacoma area on February 28, causing \$1.5 billion in damage and injuring 400. Officials said the toll was limited by an aggressive public campaign to enforce building codes and

other earthquake mitigation measures.

Millions of minor earthquakes occur annually. Significant earthquakes are those of magnitude 6.5 or greater, or those that cause fatalities, injuries, or substantial damage. During a typical year, 18 major temblors (magnitude 7.0 to 7.9) and one great earthquake (8.0 or higher) occur worldwide.

Publications

New Design Guides from ICBO

Two new design guides were recently released by the International Conference of Building Officials (ICBO) in partnership with the Structural Engineers Association of California (SEAOC).

The first, *Guidelines for the Seismic Retrofit of Existing Buildings* (GSREB), is an update of the seismic retrofit provisions contained in the 1997 Uniform Code for Building Conservation (UCBC). In addition to updating the UCBC retrofit provisions, SEAOC's Existing Buildings Committee proposed two new chapters for inclusion in the new GSREB. This publication reflects lessons learned and experience gained from the retrofit of more than 30,000 buildings using earlier editions of the UCBC. The list price for this publication is \$21.95.

The second, *Guidelines for Seismic Evaluation and Rehabilitation of Tilt-up Buildings and Other Rigid Wall/Flexible Diaphragm Structures*, is the product of an extensive seven-year effort by the Structural Engineers Association of Northern California (SEAONC). It provides guidelines for assessing the seismic vulnerability of existing tilt-up and similar rigid wall/flexible diaphragm

structures and for implementing measures to reduce the risk of death and injury. The list price for this publication is \$49.00.

Both publications are available from ICBO by phone: 800/284-4406, fax: 888/329-4226, or web site: www.icbo.org.

Announcements

Bridge Workshop

A three-day workshop on "Seismic Analysis, Design, and Retrofitting of Bridges" will be held March 25-28, 2002, at the University of California, Berkeley.

The workshop will focus on the integration of the most up-to-date seismic design practices into the multiple disciplines involved in designing and retrofitting bridges. The workshop is intended for bridge engineers and designers seeking information on the latest seismic design and retrofitting criteria.

The workshop fee is \$995. For more information, contact the UC Berkeley Extension, Continuing Education in Engineering, by phone: 510/642-4151, fax: 510/642-6027, e-mail: course@unx.berkeley.edu, or see www.unex.berkeley.edu/eng.

Exhibit Space at 12ECEE

A limited amount of exhibit space at discounted rates is available for the 12th European Conference on Earthquake Engineering, which will be held September 9-13, 2002, in London. The 40% discount applies to educational establishments and learned societies. For details, see the conference web site www.12ecee.org.uk and follow the links to "Exhibition."

News of the Institute

Anil Chopra Receives Housner Medal

Anil K. Chopra, professor of structural engineering in the Department of Civil and Environmental Engineering at the University of California, Berkeley, is this year's recipient of EERI's highest honor, the George W. Housner Medal. The medal was awarded for his fundamental contributions to structural dynamics and to the understanding of earthquake response of structures. He has authored more than 240 published papers, a popular EERI monograph, *Dynamics of Structures, A Primer*, and a well-known textbook, *Dynamics of Structures: Theory and Applications to Earthquake Engineering*. He was a member of EERI's Board of Directors from 1990-1993 and currently serves on the *Earthquake Spectra* Editorial Board. In 1984 he was a member of the Steering Committee for the Eighth World Conference on Earthquake Engineering held in San Francisco.

A native of India, Chopra received his B.S. in civil engineering from Banaras Hindu University, India, in 1960; an M.S. from the University of California, Berkeley, in 1963; and a Ph.D., also from Berkeley, in 1966. After serving as an assistant professor at the University of Minnesota, Minneapolis, he joined the faculty at Berkeley, where he has served as assistant professor (1967-71), associate professor (1971-76), professor (since 1976), vice chair (1980-83), and chair (1991-93, 1994-97) of the Structural Engineering, Mechanics, and Materials Program. He has been responsible for the development and teaching of courses in structural engineering, structural dynamics, and earthquake engineering. He was awarded Berkeley's Distinguished Teaching Award in 1999.

His research activities have included studies of structural dynamics, various problems in earthquake analysis and design of buildings, dynamic



Anil K. Chopra

soil-structure interaction, dynamic fluid-structure interaction, and earthquake analysis and design of concrete dams.

Chopra serves as a consultant on earthquake engineering problems to numerous governmental and private organizations. He has served as chair of the Engineering Mechanics Division and the Structural Division Executive Committees of the American Society of Civil Engineers (ASCE). He has been on the Boards of Directors of the Structural Engineers Association of Northern California, the Seismological Society of America, and the Applied Technology Council. He has also been chair of the National Research Council Committee on Natural Disasters. Currently, he serves as general editor of *Earthquake Engineering and Structural Dynamics*, the journal of the International Association for Earthquake Engineering.

Chopra has received many honors for his contributions to the field, including the Ernest E. Howard Award, the ASCE Nathan M. Newmark Medal, the Norman Medal thrice (for the best paper among all ASCE journals), the ASCE Raymond C. Reese Research Prize, the ASCE Walter L. Huber Research Prize, and the AT&T Foundation Award of the American Society for Engineering Education. He was elected to the National Academy of Engineering in 1984.

News of the Institute

Boston Harbor Banquet and Central Artery/Tunnel Tour Planned for 7NCEE

The organizing committee for the 7th National Conference on Earthquake Engineering is pulling out all the stops in providing unique New England experiences for attendees. The conference's crowning social event will be an unforgettable gala for hundreds aboard the *Odyssey*, one of the largest fine-dining cruise ships on Boston Harbor. It will feature sumptuous cuisine, attentive service, remarkable views of historic Boston Harbor, and a memorable setting. With three dining decks, the *Odyssey* offers understated nautical accents, a state-of-the-art captain's bridge, and an elegant atmosphere reminiscent of classic ocean liners.

There will also be non-nautical opportunities to explore the local Northeast setting. Tours have been scheduled for an attraction of great importance to participants — the Central Artery/Tunnel (CA/T) Project, nicknamed "the Big Dig" — the largest, most complex, and technologically challenging highway project ever attempted in American history. It will dramatically reduce traffic congestion and improve mobility in one of the nation's oldest and most congested major cities, improve the environment, and lay the groundwork for continued economic growth.

The Central Artery project is public works on a scale described on its web site, www.bigdig.com, as comparable to some of the great projects of the last century — the Panama Canal, the English Channel Tunnel, the Trans-Alaska Pipeline. The Central Artery project's unique challenge is the fact that it is being built in the middle of a city. Work of the CA/T project's magnitude and duration has never been attempted in the heart of an urban area; it is designed to keep the city open for business

throughout construction. The Central Artery project was conceived to re-connect neighborhoods severed by the old elevated highway, and improve the quality of life in the city beyond the limited confines of the new expressway.

Under construction since late 1991, the entire project will be finished in 2004. It is owned and managed by the Massachusetts Turnpike Authority, and is part of the Metropolitan Highway System. Design and construction management consulting is provided by Bechtel/Parsons Brinckerhoff, a joint venture of Bechtel Corporation of San Francisco and Parsons Brinckerhoff Quade & Douglas, Inc., of New York.

Look for information in future *Newsletters* and in the preliminary program to be mailed in the near future about additional opportunities to get acquainted with the historic Boston area: a walking tour of cable-stayed bridges, Freedom Trail Tours, and other self-guided tours.



*Sky deck on the Odyssey
(photo from web site www.odysseycruises.com/boston/deck_views/)*



News of the Profession

Processed Chi-Chi Earthquake Data Available Online

The processed acceleration, velocity, and displacement digital data for more than 400 of the highest quality records from the main shock of the September 21, 1999, Chi-Chi (Taiwan) earthquake are now available on the COSMOS (Consortium of Organizations for Strong-Motion Observation Systems) web site at www.cosmos-eq.org. The raw accelerograms, prepared by W. H. Lee, were fully processed to customary time series and response spectra at the California Strong Motion Instrumentation Program in Sacramento according to their established protocols, with the assistance of C.-P. Lee, visiting from Taiwan. Additional records from the mainshock and records from the three large aftershocks are slated for additional work in this cooperative effort.

News of the Institute

Contributions to the Endowment Fund

EERI would like to acknowledge the balance of 2001 contributions to the Endowment Fund not previously listed.

Up to \$100:

Sergio Alcocer
Ian Buckle
Claudio Chesi
Henri Gavin
Juan Jose Hermosilla
Joe Hollstein
Gayle Johnson
Alfonso Malaver
Irving Oppenheim
Jelena Pantelic
F. Robert Preece
Ellen Rathje
Roger Sharpe
Hiroyuki Yamanouchi

News of the Institute

Borcherdt and Cherry Named EERI Honorary Members

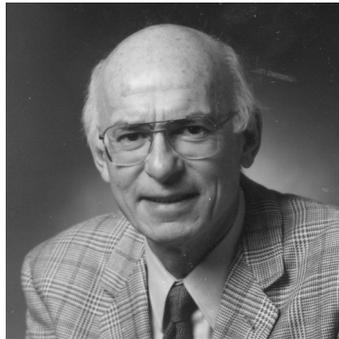


Roger D. Borcherdt

The EERI Board of Directors voted to name Roger D. Borcherdt and Sheldon Cherry as honorary members of the Institute. Honorary membership is awarded to recognize members who have made sustained and outstanding contributions either in the field of earthquake engineering or to EERI and the pursuit of its objectives.

Roger D. Borcherdt received honorary membership for his distinguished career and notable accomplishments in EERI. He has made important contributions to the measurement of strong ground motion, in characterizing the motion for applications, and in leading the dialogue between engineers and seismologists interested in strong earthquake ground motion.

Subsequent to becoming an EERI member in 1973, Borcherdt's contributions to the Institute have included serving on the Board of Directors (1987-1990) and as vice president (1988-1990); chairing the Publications Policy Committee, the Geoscience Task Groups, the Honors Committee, and the Electronic Publication Subcommittee; and co-chairing the Fourth International Conference on Seismic Zonation (1991). Presently, Borcherdt is editor of *Earthquake Spectra* and chair of the 2002 Nominating Committee. He is spearheading the effort to develop state-of-the-art hardcopy and online editions of *Earthquake Spectra*.



Sheldon Cherry

Borcherdt is a research engineering seismologist at the U.S. Geological Survey in Menlo Park, California. He enjoys a consulting professor appointment at the John A. Blume Earthquake Engineering Center, Stanford University, where he also served as visiting professor (1991). He is the author of 168 publications. He has served in a variety of scientific leadership roles at the USGS, on various advisory panels, and as seismology team leader for earthquake investigation teams.

Borcherdt received *Earthquake Spectra's* 1994 Outstanding Paper Award for his manuscript specifying site coefficients and site classes in terms of shear-wave velocity as adopted in present provisions of U.S. building codes. He is the recipient of the U.S. Department of Interior's Meritorious Service Award (1993) for scientific contributions and leadership in engineering seismology.

Sheldon Cherry received honorary membership because of his great influence on the international community of structural engineers; he has contributed significantly to international cooperation in earthquake engineering research and practice through the activities of the International Association of Earthquake Engineering (IAEE). He has also made notable contributions to research in the field, particularly in experimental

investigations of structural response.

Cherry is now a professor emeritus of civil engineering at the University of British Columbia (UBC), Vancouver, Canada. He was awarded UBC's President's Service Award for Excellence in 1991. His research interests include structural dynamics, seismic response control of structures, passive and semi-active energy dissipators for response control, friction dampers, code-oriented methods for the design of seismic control systems, shake-table testing, dynamic characteristics of structures, and seismic risk analysis.

In addition to more than 20 years of service at UBC, Cherry has been a visiting fellow at Oxford University, received a fellowship from the Japan Society for Promotion of Science at Tokyo University, and was a UNESCO expert at the International Institute of Seismology and Earthquake Engineering in Tokyo, as well as a senior research fellow at the California Institute of Technology.

Cherry's service to the profession includes six years as president of IAEE, ending this year. He was founding president of the Canadian Association for Earthquake Engineering, founding chairman of the Canadian National Committee for Earthquake Engineering, a member of the advisory editorial board of the *Journal of Earthquake Engineering & Structural Dynamics*, a fellow and life member of the American Society of Civil Engineers, and a fellow and life member of the Canadian Society of Civil Engineers.

Cherry's non-engineering interests resulted in stints as president and trustee of the Vancouver Art Gallery, and membership on the British Columbia Advisory Arts Board.

Obituary

Karl V. Steinbrugge

(from notes provided by Henry J. Lagorio and Robert A. Olson)

EERI Past President Karl V. Steinbrugge passed away at his home in Los Gatos, California, on Tuesday, October 9, 2001, at the age of 83. A native of Tucson, Arizona, he was one of the earliest members of EERI, having joined the Institute in 1954. He served as EERI President in 1968-69, was appointed an honorary member in 1981, and received the George W. Housner Medal in 1994.

Steinbrugge devoted his life to seismic hazards investigation, post-earthquake reconnaissance field trips, and promotion of earthquake mitigation measures. His sheer enthusiasm showed in his dedication to teaching, research, problem solving, and applying his findings for the benefit of all.

From the early 1950s until his retirement in 1978, Steinbrugge was an active faculty member in the Department of Architecture at the University of California at Berkeley. As an assistant professor during this period, he was very supportive of his graduate students. It was his responsibility to teach basic structural engineering principles and concepts to upper-division architecture students enrolled in design studios and a combined set of advanced multidisciplinary courses. At the time, through a series of state and federal grants available to him for work in various seismic hazards mitigation investigation projects, many of his architecture students were engaged in fieldwork, data collection, and analysis under his close supervision. These students quickly learned, absorbed, and put into practice many of the basic principles of seismic safety and design.

After the 1971 San Fernando, California, earthquake, Steinbrugge became a key professional dedicated to the development and improvement of seismic hazards mitigation measures in the California public policy arena and in the federal government. Also in California, working closely with Senator Alfred Alquist, he oversaw the work of nearly 70 volunteer advisors to the Joint Legislative Committee on Seismic Safety. He was directly involved in several critically important legislative actions that were passed into law, including the Hospital Seismic Safety Act of 1973, the Alquist-Priolo Geologic Hazards Zones Act of 1972, authorization of the restoration of the capitol building, and the Seismic Safety Commission Act of 1974.

During this period, in cooperation with Senator Alquist and Governors Ronald Reagan, for whom he served on the Governor's Earthquake Council, and Edmund Brown, Jr., Steinbrugge also helped negotiate the formation of the California Seismic Safety Commission and initial appointments thereto. He served as its first chairman from 1975-77. In 1988 Steinbrugge was the first person, after Senator Alquist in 1987, to be awarded the Alfred E. Alquist Award for Achievement in Earthquake Safety in California.

In 1978, at the federal level under President Carter, and after the passage of the Earthquake Hazards Reduction Act of 1977, he was appointed chairman of the Working Group on Earthquake Hazards Reduction of the Office of Science and Technology Policy, Executive Office of the President. This group helped implement the new act's provisions in a complex multi-agency setting.

There was no limit to Steinbrugge's enthusiasm in pursuing earthquake research objectives, earthquake hazards mitigation measures, and new engineering solutions. He enjoyed the responsibility of generating new

ideas and opening up new options in earthquake hazards reduction goals. As an energetic member of the U.C. Berkeley Architecture Department, EERI, and California and federal committees and commissions, his outstanding research achievements, teaching qualities, publications, and public service earned him international esteem and acknowledgment. These accomplishments occurred while he was fully employed as head of the Earthquake Department of the Pacific Fire Rating Bureau, now the Insurance Services Office.

He will be sorely missed by his friends and colleagues, and remembered for the huge footprint he left on the landscape of seismic safety.

News of the Profession

Job Opportunities

Applied Insurance Research, Boston, MA. Five positions in the Research and Modeling Department: senior research engineer, structural engineer, geotechnical engineer, repair cost analyst, and seismologist. Contact: Applied Insurance Research, Human Resources, Job Code EERI102, 101 Huntington Ave., Boston, MA 02199; fax: 617/267-8284; e-mail: HRDepartment@air-worldwide.com.

University of Nevada, Reno. Two research assistantships available beginning July 1, 2002, for doctoral-level graduate studies in the Center for Neotectonic Studies at the University of Nevada, Reno (UNR). Each carries an annual stipend of \$16,000 and tuition costs. The assistantships are for research on active faults and earthquakes in the Basin and Range province of the western United States. Contact: neotectonics.seismo.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**.

2002 FEBRUARY

6-9. 2002 EERI Annual Meeting, Long Beach, CA. Info: www.eeri.org (9/01, 10/01, 11/01, 12/01, 1/02)

20. SEAW Annual Trade Show and Seminars, Tacoma/Fife, WA. Info: seawswchapterr@attbi.com (1/02)

MARCH

14-16. Disaster Management Conference, Gujarat, India. Web: www.iocdm.com (11/01)

15-17. NZSEE Annual Conference 2002, Napier, NZ. Info: jacquie@hague.co.nz (11/01)

17-21. Smart Structures and Materials, San Diego, CA. Info: www.spie.org/info/ss (7/01)

18-20. CUSEC Annual Meeting, Little Rock, AR. Info: www.cusec.org (1/02)

25-28. Workshop on Bridge Analysis and Design, Berkeley, CA. See page 3. (2/02)

APRIL

7-12. World Conference on Structural Control, Como, Italy. Info: congress@icil64.cilea.it (7/01)

21-26 EGS Meeting, Nice, France. Info: www.copernicus.org/EGS/EGS.html (1/02)

24-26. 8th Chilean Conference on Earthquake Engineering, Valparaiso, Chile. Info: www.achisina2002.uftsm.cl (10/01)

26. LA Tall Buildings Council Annual Meeting, Los Angeles, CA. Info:

gbrandow@bjase.com (12/01)

28-May 1. Seismic Conference on Highways and Bridges, Portland, OR. Info: mceer@acsu.buffalo.edu (7/01)

MAY

10-11. Clough and Penzien Symposium, Berkeley, CA. Info: www.curee.org (1/02)

16-18. Earth Science and Engineering Symposium, Istanbul, Turkey. Info: www.earth.itu.edu.tr (1/02)

30-31. ATC-17-2 Seminar, Los Angeles, CA. Info: www.atcouncil.org (12/01)

JUNE

10-12. 3rd International Conference on Composites in Infrastructure, San Francisco, CA. Info: www.az-icci.org (3/01)

19-21. Risk Analysis 2002, Sintra, Portugal. Info: www.wessex.ac.uk/conferences/2002/risk02 (9/01)

JULY

21-25. 7th National Conference on Earthquake Engineering, Boston, MA. Info: www.eeri.org. See page 4. (9/99, 8/01, 9/01, 10/01, 11/01, 1/02, 2/02)

SEPTEMBER

2-5. eurodyn 2002, Munich, Germany. Info: www.eurodyn2002.de (8/01)

8-11. Dam Safety 2002, Tampa, FL. See page 8. (2/02)

9-13. 12th European Conf. on Earthquake Engineering, London, UK. Info: www.12ecee.org.uk. See page 3. (9/00, 12/00, 2/02)

26-28. SEAOC Annual Meeting, Santa Barbara, CA. Info: MLCSE@aol.com (1/02)

OCTOBER

9-12. Structural Engineers World Congress, Yokohama, Japan. Info: sewc2002.gr.jp (6/01)

2003 FEBRUARY

13-15. Pacific Conference on Earthquake Engineering, Christchurch, NZ. Info: www.nzsee.co.nz/pcee (1/02)

News of the Profession

ASTM Changes Name

ASTM, the American Society for Testing and Materials, one of the largest voluntary development organizations in the world, has announced a name change. The change to ASTM International reinforces the openness to worldwide input of the ASTM standards development process as well as reflecting the global application and use of ASTM standards. Today, membership in the society exceeds 30,000 technical experts from more than 100 countries who comprise this worldwide standards forum. Known for their high technical quality and market relevance, forty percent of the ASTM standards distributed go outside the United States.

Job Opportunity

Southern California Earthquake Center, Los Angeles. Information Architect. Responsible for coordinating all information technology activities, including the collection, archiving, and distribution of large data sets; high-performance computing and communications; and end-to-end earthquake simulations. The architect will be project manager for a new five-year, \$10-million grant by the NSF Information Technology Research Program, which will establish an information infrastructure for earthquake science in southern California. Requires an M.S. or Ph.D. in computational science or geophysics and a working knowledge of both fields. For application information, see web site www.usc.edu/bus-affairs/ers/jobs/13010.html.

News of the Institute

Annual Meeting Travel Grant Recipients

With support from FEMA, several travel grants have been awarded to encourage student members and younger EERI members (out of school no more than three years) to attend this year's Annual Meeting in Long Beach. This financial support was contingent upon participation in the student paper competition or the poster sessions, 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 as follows:

Arzhang Alimoradi	University of Memphis
Cameron Black	University of California, Berkeley
Brian Chen	University of Texas, Austin
Dominic Dowling	University of Technology, Sydney, Australia
Peter Dusicka	University of Nevada, Reno
Omer Erbay	University of Illinois, Urbana-Champaign
Siddhartha Ghosh	University of Michigan
Wei Huang	Washington University, St. Louis
Payam Khashaee	Southern Methodist University
Xuemei Liang	University of Michigan
Gilberto Mosqueda	University of California, Berkeley
David Peralta	Texas A&M University
Jennifer Tanner	University of Texas, Austin
Tim Wiley	University of California, Berkeley
Kent Yu	Degenkolb Engineers

Announcements

Dam Safety 2002

The 19th Annual Association of State Dam Safety Officials (ASDSO) Conference will be held September 8-11, 2002, in Tampa, Florida. Engineers, geologists, hydrologists, dam owners, industry representatives, others working in the field, and 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: hydrology and hydraulics, geotechnical issues, emergency preparedness, dam design and rehabilitation, dam inspections, removal of dams, dam safety regulatory programs, dam owner issues, and dam construction.

The deadline for 300-word abstracts is February 15, 2002. For more information on the conference, see the web site www.damsafety.org.



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