



**EARTHQUAKE ENGINEERING  
RESEARCH INSTITUTE**

**NEWSLETTER**

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## Call for Abstracts

### 2002 LA Tall Buildings Annual Meeting

The Los Angeles Tall Building Structural Design Council (LATBSDC) is calling for papers for the 2002 Annual Meeting to be held in Los Angeles on April 26, 2002, at USC's Davidson Center. The meeting's focus will be on structural and construction issues related to application of seismic upgrade criteria, innovative structural design, and the professional practice of structural engineering.

One-page abstracts are due January 7, 2002, and accepted papers are due April 1, 2002. Submit abstracts to: Gregg E. Brandow, LATBSDC Exec. Director, Brandow & Johnston Associates, 1660 W. Third Street, Los Angeles, CA 90017; e-mail: [gbrandow@bjase.com](mailto:gbrandow@bjase.com).

## News of the Institute

### Return to Long Beach: Origins, Development, and Future of Earthquake Engineering

EERI's 54th Annual Meeting, scheduled for February 6-9, 2002, in Long Beach, California, will explore the major advances in the earthquake professions since the seminal Long Beach earthquake of 1933, including the involvement of government organizations; knowledge of ground motion and structures; changes in laws, codes, and regulations; and the theory behind those changes.

The challenging question of how we are preparing nationally also will be addressed. One session will assess risks of loss, state programs on disaster preparedness, and national research on incremental seismic retrofit. Additionally, because of the meeting's location in southern California, there will be an examination of how the Long Beach and Los Angeles ports, harbors, and surrounding areas have prepared.

To support and encourage participation by EERI's younger members, student members are being offered half-price registration (\$200) for the full meeting. Students and young professionals (age 35 and under) are eligible for a special Saturday-only registration for only \$35. The Saturday program will look at "How Can EERI Make a Difference?" in reducing losses at local, state, and national levels. It will also include the 2002 Distinguished Lecture by Mete Sozen, the Kettelhut Distinguished Professor of Structural Engineering at Purdue University; a presentation on the NEES (Network for Earthquake Engineering Simulation) consortium development; and a discussion of the future of earthquake engineering research at the National Science Foundation. To top off the day and the conference, there will be a field trip consisting of a guided walk of historic retrofits in downtown Long Beach.

The program brochure containing meeting and hotel registration forms will be mailed to all members shortly. 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 6, 2002. (If necessary, you can cancel hotel reservations up to 24 hours before arrival without penalty.)

Nonmembers who become members when registering will get a \$30 discount on their 2002 membership, and will qualify for the member registration fee of \$395 instead of the nonmember rate of \$450.

All information and online registration is available on the EERI web site at [www.eeri.org](http://www.eeri.org).



*View of Rainbow Harbor, downtown Long Beach, and the San Gabriel Mountains in the background. (Photo courtesy of Long Beach C&V Bureau)*

## News of the Institute

### Solicitation of Member Input on Research Needs and Opportunities for Earthquake Engineering

With funding from the National Science Foundation (NSF), EERI has begun the development of a long-term Research Plan that will identify the needs, and opportunities that exist, to advance the state of the art and state of the practice in earthquake engineering and earthquake loss reduction over the next several decades. The research needs and opportunities include those provided by new infrastructure and technologies, including the Network for Earthquake Engineering Simulation (NEES) and the fledgling Advanced National Seismic System (ANSS), together with other new developments in information technology. The Research Plan will focus on a time span that is longer than those of ongoing programs such as the National Earthquake Hazards Reduction Program (NEHRP) Strategic Plan, the earthquake engineering centers, and the NEES program. It is expected that significant new funding for earthquake engineering research will be needed to address the needs and opportunities that are identified in the plan. A draft version of the Research Plan will be submitted to NSF in April 2002, and the final version will be submitted in August 2002.

EERI has established a panel, whose membership is listed below, to carry out the development of the Research Plan. The panel is composed of researchers and professionals from the broad range of disciplines that are spanned by EERI's membership. In mid-January, the panel will have a draft report ready for comment and discussion. It will be posted on the new RESEARCH page on the web site, [www.eeri.org/research.html](http://www.eeri.org/research.html). EERI members are invited to post comments on the report using the SPEAK-UP icon on the research page. The panel will solicit additional comments on the report using teleconferencing. Also, it will be presented and discussed at a special session of the EERI Annual Meeting on Saturday morning, February 9, 2002, from 8 a.m. to 9:15 a.m.

The research page on the web site contains the *EERI Proposal for Developing the Research Plan*. It also contains the *EERI Policy Statement on Research*, an incomplete section on *Achievements of Past and Ongoing Research*, and links to announcements of recent research grants and awards. Your input on achievements and on announcements is solicited. Please send contributions to Xena van de Walle at [xena@eeri.org](mailto:xena@eeri.org).

Membership of the EERI Panel to Develop the Research Plan:

Name	Discipline	Affiliation
Ian Buckle	Structures/Bridges	University of Nevada at Reno
Ricardo Dobry	Geotechnical Eng.	Rensselaer Polytechnic Institute
Ron Eguchi	Lifelines/Imaging	ImageCat Inc.
Greg Fennes	Structures/Modeling	University of California at Berkeley
Steve French	Planning/GIS	Georgia Institute of Technology
Ron Hamburger	Structures/Design	ABS Group
Anke Kamrath	Information Tech.	San Diego Supercomputer Center
Bill Lettis	Geology	William Lettis & Associates
Peter May	Policy/Social Sci.	University of Washington
Keith Porter	(Recorder)	California Institute of Technology
Adam Rose	Economics/Loss Est.	Penn State University
Paul Somerville*	Seismology	URS Group

\* Chair of Panel and EERI Research Policy Committee

## Publications

### BSSA Volume on Chi-Chi, Taiwan, Earthquake

A special issue of the *Bulletin of the Seismological Society of America (BSSA)* on the 1999 Chi-Chi, Taiwan, earthquake has recently been published. The issue contains an extensive set of peer-reviewed papers and a data CD of both raw and processed ground-motion data. EERI member William Lee served as the guest editor.

Copies of the *Bulletin* and data CD are available from the Seismological Society of America, 201 Plaza Professional Building, El Cerrito, CA 94530; phone: 510/525-5474; fax: 510/525-7204; web: [www.seismosoc.org](http://www.seismosoc.org).

### Turkish Earthquake Records

USGS announces the official release of a CD-ROM Open File Report 01-163, entitled *Main Shock and Aftershock Records of the 1999 Izmit and Düzce, Turkey, Earthquakes*, which contains a collection of approximately 60,000 channels of data. The data sets are accompanied by station descriptions, general maps, and technical papers. The data are from eight different sources collected by institutions in Turkey, France, the United States, and Japan. The data set can be accessed through the web site: [geopubs.wr.usgs.gov/open-file/of01-163/](http://geopubs.wr.usgs.gov/open-file/of01-163/).

A limited number of free copies of the two-disk CD-ROM are available by contacting Mehmet Çelebi at [celebi@usgs.gov](mailto:celebi@usgs.gov). After this supply is depleted, copies can be purchased from the USGS Information Services, Box 25286, Denver Federal Center, Denver, CO 80225; phone: 888/ASK-USGS.

## Call for Abstracts

### Seminar in Response Modification Technologies

The Applied Technology Council (ATC) and the Multidisciplinary Center for Earthquake Engineering Research (MCEER), State University of New York at Buffalo, announce the ATC-17-2 Seminar on Response Modification Technologies for Performance-Based Design. The seminar will focus on seismic isolation, energy dissipation, active and semi-active control systems, and the use of new materials in structural response modification. It will be held May 30-31, 2002, at the Hyatt Regency Los Angeles. The purpose of the two-day seminar is to present a comprehensive picture of the state of practice and current research on response modification technologies for performance-based seismic design, including future directions.

The seminar program has been developed for design professionals, regulators, researchers, manufacturers and contractors, owners, and facility managers. Themes and topics to be addressed include case studies of current and future applications; summaries of recent research; future directions in the development and application of devices and systems; and emerging technical and policy issues, including barriers to implementation.

Those interested in presenting a paper at the seminar should submit a one-page 250-word abstract by January 15, 2002, to: ATC-17-2 Project, Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, CA 94065; fax: 650/593-2320; e-mail: [atc@atccouncil.org](mailto:atc@atccouncil.org).

## News of the Institute

### EERI/FEMA Professional Fellowship Awarded

Mark R. Legg, president of Legg Geophysical in Huntington Beach, California, has been selected as the 2002 NEHRP Professional Fellow in Earthquake Hazard Reduction, awarded by EERI under a cooperative program funded by the Federal Emergency Management Agency (FEMA). This activity is undertaken by FEMA as part of the National Earthquake Hazards Reduction Program. The fellowship is designed to provide an opportunity for a practicing professional to gain greater skills and broader expertise in earthquake risk reduction.

The Institute extends thanks to the review committee composed of Daniel Alesch of the University of Wisconsin, Rachel Davidson of Cornell University, Lori Dengler of Humboldt State University, Dominic J. Kelly of Simpson Gumpertz & Heger, Inc., and Michael Valley of Skilling Ward Magnusson Barkshire Inc.

Legg's research will focus on evaluating the engineering aspects of tsunami hazard mitigation and tsunami potential from major offshore earthquake sources, including estimating tsunami amplitude, run-up, inundation, and probability of occurrence. His work has provided him the requisite expertise on offshore faulting and evaluating earthquake hazards based upon ongoing research projects sponsored by the U.S. Geological Survey and the Southern California Earthquake Center. He will document results in written reports and a paper for formal publication. Legg will carry out his research under the direction of Professor Costas Synolakis at the University of Southern California.

Legg has been president of Legg Geophysical since 1992. He has written more than 40 technical reports and papers spanning the fields of earthquake engineering, geology and seismology, exploration seismology, natural hazards and risk analysis, and marine geology and geophysics.

Legg earned his B.S. from the Florida Institute of Technology; his M.S. from the Scripps Institute of Oceanography, University of California, San Diego; and his Ph.D. from the University of California at Santa Barbara.



*Mark R. Legg emerging from a submersible.*

The Professional Fellowship, awarded annually, provides a stipend of \$30,000, commencing in January 2002, and includes tuition, fees, and relocation and living expenses for a 12-month period.



## News of the Institute

### Remember EERI Before This Tax Year Ends

As always, December brings with it the last chance for members to reduce next year's taxes by making a donation to the EERI Endowment Fund. Gifts of cash or appreciated securities from individuals or corporations are usually the most convenient ways to make charitable donations; a 2001 EERI Donation Form is included with this *Newsletter* to make last-minute giving a quick and simple process.

For busy members who may wish to make an even bigger dent in their tax bills, this is also an excellent time to set up a planned gift, naming EERI as a benefactor. A tax or estate planning counselor is the best source for specific advice, but many working people aren't aware of the immediate and potentially substantial tax advantages of making planned gifts prior to retirement.

"You're going to have to give the money to somebody, and in many cases it's going to be the IRS," says the EERI Planned Giving Campaign's inaugural donor, Trish Bolton. "Why not choose a cause you really care about?" By placing her investment property in a charitable trust and naming EERI as beneficiary, she was able to obtain immediate tax benefits. "It's something I learned is particularly good for people to do in their higher-earning years."

Trish Bolton is especially pleased that her planned gift will help make possible EERI special projects, saying, "That's where the organization really draws on our diverse membership to do truly integrated, multidisciplinary work."

EERI Development Committee Chair David Friedman further explains, "The Special Projects Endowment Fund brings together the professions through meetings, publications, education, encouraging dialog, and developing creative strategies targeted at improving the sustainability of the built environment."

Whether EERI members make immediate cash donations, or choose to offer support through a deferred bequest, these contributions provide essential funding for such projects as the May 2000 White Paper on *Financial Management of Earthquake Risk*, a training video for framing carpenters and building inspectors, and the current web-based encyclopedia of housing types in seismically prone areas of the world.

Because of the events of September 11, this year's end finds Americans especially attuned to vulnerabilities in their shared environment. The work done by EERI members to mitigate losses from earthquakes is suddenly more relevant than ever. As individual members reflect on all that's already been achieved by our association of earthquake professionals, it may also be the right time to consider how each member gift to EERI will help to ensure that the fruit of that collective labor benefits many generations to follow.

For more information on the EERI Planned Giving Campaign, or to obtain referrals to estate planning resources, please contact EERI Development and Outreach Director Victoria Costello at 510/451-0905, or e-mail your request to [victoria@eeri.org](mailto:victoria@eeri.org).

## News of the Institute

### Search for New Editor for *Spectra*

In December 2002, Roger Borchardt will complete his term as editor of *Earthquake Spectra*, EERI's professional journal. During his term, the journal has flourished, and a variety of innovations have been implemented to meet the needs of the membership, with the most recent being the debut of the new edition, *Earthquake Spectra ONLINE*.

In preparation for a smooth transition, we are seeking applications and nominations for journal editor to serve a five-year term, starting in January 2003. The editor, with the support of the editorial board and the managing editor, has responsibility for both the hardcopy and online editions. The editor makes publication decisions based on recommendations of the editorial board and reviewers, and has ultimate responsibility for ensuring that manuscripts meet the high-quality professional standards established for technical content, format, and timeliness. As chair of the editorial board, the editor has responsibility for overseeing journal publication policies, developing recommendations for theme issues, identifying nominees for the editorial board, and developing consensus recommendations for Outstanding Paper Award nominees for consideration by the Honors Committee.

Since *Earthquake Spectra* is expected to be fully online in 2002, the start of the new editor's term in January 2003 represents the beginning of an exciting new era for the journal. All individuals interested in either nominating someone or applying for this position are encouraged to contact a member of the *Earthquake Spectra* Editor Search Committee (Thalia Anagnos, Chair; Roger Borchardt; Thomas O'Rourke; Joanne Nigg; and Frieder Seible).

## Announcements

### Seminar on Wood-Frame Dwellings

The Applied Technology Council (ATC) and the city of Los Angeles Department of Building & Safety (LADBS) announce the ATC-50 Seminar on Seismic Evaluation, Grading, and Rehabilitation of Single-Family Wood-Frame Dwellings, to be held January 17, 2002, in the City of Commerce at the Wyndham Hotel. The ATC-50 project was initiated by the city of Los Angeles because of the high losses resulting from damage to single-family wood-frame dwellings in the 1994 Northridge earthquake. The purpose of the one-day seminar is to provide participants with detailed information about the ATC-50 seismic evaluation, grading, and rehabilitation procedures, including an overview of the pilot testing phase of the project, in which 500 buildings were evaluated and graded using preliminary versions of the procedures; fifty homes are being retrofitted.

The seminar program has been developed for building inspectors, contractors, structural design professionals, building officials, and representatives of insurance companies and financial institutions. It will include plenary sessions and breakout sessions to provide a more conducive environment for questions and discussions about the new ATC-50 procedures.

The registration fee is \$150 (\$120 for ATC subscribers) and covers copies of the ATC-50, ATC-50-1, and ATC-50-2 reports, luncheon, and coffee breaks. For further information, contact: ATC-50 Project, Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, CA 94065; fax: 650/593-2320; e-mail: [atc@atccouncil.org](mailto:atc@atccouncil.org); web site: [www.atccouncil.org](http://www.atccouncil.org).

## News of the Institute

### First Meeting of EERI Northern California Regional Chapter

Approximately 65 EERI members attended the first organizational meeting of the Northern California Regional Chapter, held on October 17, 2001, in the Bechtel Room of the City Club of San Francisco. Peter Yanev, head of the organizational effort, led a discussion regarding the proposed chapter's mission. Two objectives received general endorsement: (1) to reduce earthquake risk in northern California over a reasonable time frame, and (2) to provide a forum for technical exchange and social interaction for northern Californians concerned with seismic risk. Members attending from the U.S. Geological Survey and the California Division of Mines and Geology indicated that their agencies wish to work closely with the chapter.

The following members were elected to the chapter's Board of Directors:

Peter Yanev, President  
 Charles Scawthorn, Vice President  
 L. Thomas Tobin, Secretary-Treasurer  
 Keith Knudsen, Director  
 Joe Sutton, Director  
 Fred Turner, Director  
 Zan Turner, Director

Vice President Scawthorn described a proposal for the chapter to undertake called "Quake '06" that was well received. The proposal calls for members to work with the northern California community to encourage efforts that address earthquake risk and that integrate concerns for security with earthquake resistance. The proposed goal is for stakeholders, such as building owners and public agencies, to determine their risk and reduce it by 50% by the 100th anniversary of the 1906 San Francisco earthquake. The key is that the chapter has an ambitious but attainable mission that would promote public good and professional involvement in a highly visible, continuing effort.

The first meeting of the chapter's Board of Directors took place on October 26 at the ABS office in Oakland. The Board created the following committees and welcomes committee volunteers: Membership, Newsletter, Program, Legislative, and Media. The Legislative Committee will monitor state and local legislation and provide recommendations to the Board on issues of interest to the chapter. Priority will be given to local matters. State-level legislation will be considered in collaboration with the Southern California Chapter to ensure full cooperation and single positions. Director F. Turner will consult with the Southern California Chapter leadership and recommend further actions to the Board. The Media Committee will make recommendations to the Board on how the chapter should work with news media to broadcast information on behalf of chapter activities.

The chapter will meet bimonthly with the expectation that those involved in other chapter initiatives would use the off-month for initiative-specific meetings. The next meeting is scheduled for December 17, 2001, at 5:30 p.m. in San Francisco at a location, near a BART station, to be determined. For more information on the chapter, contact Peter Yanev by phone: 925/254-2536, or e-mail: [peter@yanev.com](mailto:peter@yanev.com).

## News of the Institute

# Summary Minutes of the May 31, 2001, Meeting of the Board of Directors

**Preliminaries:** President Chris Poland called the meeting to order at 8:20 am. Present were Past President Chris Arnold, Vice President Thalia Anagnos, Directors Sergio Alcocer, Svetlana Brzev, Dennis Mileti, Paul Somerville, and Secretary/Treasurer Ron Mayes. Also present were Executive Director Susan Tubbesing and Administrative Assistant Juliane Lane. Director Mel Green was not present.

**Northern California Chapter:** Seventy members signed up for the chapter. Poland noted they have many good ideas. Members want to become public policy advocates. There should be a joint effort of northern and southern California chapters where each chapter would select a few people to serve as an advocacy group at the state level. Mileti moved to accept formally the petition for the Northern California Chapter. The motion was seconded and passed unanimously.

**DC Visit:** Following the India briefing at George Washington University, which went well, time was spent with legislative people on the Hill. Poland received compliments from Feinstein's and Thompson's offices for EERI's support of the Earthquake Loss Reduction Act of 2001. Co-sponsors are still needed for the Senate bill.

Tubbesing and Poland met with the House Subcommittee on Research the next day. It is a good time for EERI to argue for funding a major research initiative. NEES has a great program and equipment, but there is no money in the existing program for the actual research.

## Revenue and Expense reports:

Mayes reviewed the Report of Revenue and Expense as of April 30, 2001. The combined balance sheet showed the Institute's opening fund balance of \$241,865 increased by excess revenue over expenses of \$206,358.

EERI's total liabilities balance of \$64,769 combined with the total fund balance equaled \$512,992. The Endowment Program's opening fund balance of \$708,443 was increased by \$100,000 transferred from the Institute's General Fund, then decreased by \$35,345 for a balance of \$773,098.

The Endowment Program's total liabilities of \$295,307 combined with the total fund balance equaled \$1,068,404. All programs combined, including association, technical, and endowment, totaled \$1,581,396.

The Investment Funds Report showed \$123,797 in the General Administrative Short-Term Fund, \$94,784 in the General Administrative Long-Term Fund, and \$773,598 in the Endowment Fund. The Innovation Prize Investment Fund totaled \$180,568. The Institute's interest-bearing checking account showed a balance of \$44,305. The combined invested funds in both General Administrative Funds totaled \$218,581.

The Grants Status Summary showed that of \$1,199,995 in active grants, \$889,099 had been expended as of April 30, 2001. Mayes moved that the Board accept the Treasurer's Report. The motion was seconded and passed unanimously.

Mayes pointed out that the Annual Meeting incurred a \$20K loss instead of the \$12K loss that had been projected.

The Board approved a motion to provide all current members with a free copy of new monographs, but future members will have to purchase them.

## FEMA Cooperative Agreement:

FEMA is open to the idea of the mitigation center. A group will meet in July to discuss the concept further.

## Seismic Safety Commission

**Candidates:** Poland noted that names of four nominees were sent to the governor, but no word has been received as to their disposition.

## USGS Scientific Advisory Committee:

Tubbesing noted that seven names were submitted, but as there is another level of review at the National Academy of Sciences, it is not known whether they will all be selected.

## Chapter Input:

Regional Chapters Committee Chair Phil Gould believes there are four areas primed for EERI chapters: Seattle-Pacific Northwest, Boston-New York, Salt Lake City, and Atlanta-Charleston. The organizing strategy he suggested is to (1) identify one or more champions in each target area, (2) provide support by forming a small committee, and (3) send a delegation, including the EERI president and the Board member responsible for the chapter, to the targeted area.

## New Transportation Committee:

Mayes will initiate discussion with TCLEE about establishing an EERI committee on transportation lifeline earthquake engineering.

**Spectra:** The Board unanimously approved a motion to sign a contract with the American Institute of Physics (AIP) to publish *Spectra* electronically and make it available online, beginning with the November 2001 issue. The negotiating team, consisting of Vice President Anagnos, Secretary-Treasurer Mayes, and *Spectra* Editor Roger Borchardt, will negotiate the final terms of the contract and will discuss inclusion of back issues.



**International Strategy:** Alcocer will survey international members regarding an affiliate membership in which the *Newsletter* is the only benefit. He will have a recommendation for the Board at its next meeting. The Board endorsed putting the Spanish-language version of the El Salvador report, submitted by Manuel Lopez, on the web. Anagnos proposed having the web site translated into both Spanish and Japanese, and possibly partnering with other countries to post foreign-language reports on the site. Brzev and the Information Technology Committee will look into translation services.

**Young Members:** Brzev noted that membership is too expensive for younger members and suggested that EERI create a new category of membership costing 50% of a regular membership. The same discount could also apply to the cost of registration at the Annual Meetings. This membership could be appropriate for up to five years after a member has begun working in the earthquake field. In addition, an option could be added to the annual dues statement and meeting form for members to contribute funds to assist younger members in attending the Annual Meeting. Anagnos moved to include this new membership category on the November ballot for bylaws revision. The motion was seconded and passed unanimously.

**Chapters/Seminars:** For the next Executive Committee meeting, Tubbesing will work on a formula and guidelines to encourage chapters to develop seminars.



## Endowment Fund News

### Endowment Donors

EERI would like to acknowledge the following contributions to the Endowment Fund.

#### Corporate Giving

Leslie Robertson  
Associates R.L.L.P

#### \$500-\$999

Kevin Menninger

#### \$200-\$499

C. Terry Dooley  
Ruth Gordon  
William Hall  
Daniel Shapiro  
Theodore Galambos  
Leslie Robertson

#### \$100-\$199

David Bonowitz  
Jack Bouwkamp  
Yan Yan Chew  
James Davis  
Lori Dengler  
Phillip Gould  
Ronald Hamburger  
Min Lung Kuo

Frank Linhart  
George Mader  
Peter May  
Luis Mejia  
John Meyer  
Naser Mostaghel  
Guy Nordenson  
James Roberts  
Ansel Schiff  
Chester Schultz  
Richard Wright  
James Yao  
Timothy Yeun

#### Other Amounts

Goutam Bagchi  
Gilles Bureau  
James Collins  
Mary Comerio  
William Correia  
LeRoy Crandall  
Neville Donovan  
Ross Esfandiari  
Sohrab Esfandiari

Paul Fratessa  
Finn Halbo  
Walter Hensolt  
Donald Jephcott  
Darell Lawver  
I. Po Lam  
Nicholas Legatos  
Gerald Lehmer  
James McCarty  
John Meehan  
Chikahiro Minowa  
Kenichi Ohi  
Tsuneo Okada  
Gustavo Parra-Montesinos  
Jorge Polanco  
Ramesh Patel  
John Robb  
Isaac Shina  
James Slosson  
Otto Steinhardt  
Nancy Tennebaum  
Christopher Thompson  
Da-Lih Qu  
Edwin Zacher

## News of the Institute

### Remember to Vote!

All EERI members eligible to vote (regular and honorary members) should have received the ballot for this year's election. The terms of Directors Thalia Anagnos and Paul Somerville will expire in February 2002. Nominated to fill the two slots are Mary C. Comerio (University of California, Berkeley) and Ronald T. Eguchi (ImageCat Inc.) for Director A, and Ralph Archuleta (University of California, Santa Barbara) and Donald Ballantyne (ABS Consulting, formerly EQE International) for Director B. Past President Christopher Arnold will also be leaving the Board, and Thomas D. O'Rourke has been nominated as President-Elect. The election materials include biographies of each of these candidates and their vision statements.

Members will also vote on amendments to the Institute's bylaws related to the new "young professional" membership category (see the "Young Members" paragraph in the first column of this page). Also on the ballot is a change of two words in the Articles of Incorporation that is necessary for EERI to achieve property tax-exempt status.

Be sure to mail your ballot so that it is received by January 1, 2002. Contact the EERI office if you have not received it.

## Announcements

### COSMOS and WSSI Launch SAFER Cities Project

The Consortium of Organizations for Strong-Motion Observation Systems (COSMOS) and the World Seismic Safety Initiative (WSSI) are pleased to announce the launching of the SAFER Cities Project. The project was established to redistribute Strong-motion Accelerographs For Earthquake loss Reduction (SAFER) in cities with high seismic risk. The project is an initiative for seismic safety in regions of the world that would otherwise have little or no means of recording the next damaging earthquake. Instruments in good working order in COSMOS-member strong-motion programs are being replaced with recent versions of instrumentation more suited to individual program needs. The SAFER Cities Project is an effort to redistribute these replaced instruments to qualified nonprofit organizations and agencies.

The SAFER Cities Project is an initiative to create awareness, to educate, and to accelerate earthquake hazard mitigation efforts in urbanized high-seismic-risk regions of the world having few or no strong-motion instruments. It is designed to facilitate the development of strong-motion monitoring programs in order

to provide critical quantitative information needed to develop improved building codes and rebuild cities following major earthquake disasters.

Development of strong-motion programs in these areas is considered especially important. Unless such programs are established soon, the opportunity to acquire such measurements may not occur again for many decades. Continued urbanization based on inadequate strong-motion information and poor seismic design and construction standards implies potentially catastrophic costs in loss of life and property from subsequent major earthquakes. The SAFER Cities Project is a basic step towards the design and construction of safer cities in the future.

Nonprofit organizations and agencies that would otherwise have little or no means of recording the next damaging earthquake in urbanized areas of the world are encouraged to apply to receive strong-motion instruments under the SAFER Cities Project. Application forms are available from [www.cosmos-eq.org](http://www.cosmos-eq.org). Applicant inquiries may be addressed to WSSI or to [COSMOS@PEER.Berkeley.edu](mailto:WSSI@PEER.Berkeley.edu).

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## Publications

### Lifeline Performance in Recent Earthquakes

ASCE's Technical Committee on Lifeline Earthquake Engineering (TCLEE) recently released its report on the performance of lifelines in the Gujarat, India, earthquake of January 26, 2001, and the Napa earthquake of September 3, 2000. The 166-page report, ASCE TCLEE Monograph 19, is edited by EERI member John M. Eiding. The report can be purchased from ASCE for \$42 for ASCE members and \$56 for nonmembers. Contact ASCE at [www.asce.org](http://www.asce.org) or phone 800/548-2723. A PDF file of the first two chapters of this report (as well as reports for Peru 2001, Napa 2000, Turkey 1999, Kobe 1995, and a 320-page report on water system fragilities) are available from the ASCE TCLEE Water Committee web site: [home.earthlink.net/~eiding](http://home.earthlink.net/~eiding).

## Announcements

### Ground Motion Prediction Exercise

NSF and the PEER Center Lifelines Program are sponsoring a strong ground motion prediction exercise focused on the Treasure Island National Geotechnical Experimentation Site in San Francisco.

Predictors will be asked to furnish time histories and response spectra on rock for scenario earthquakes on the San Andreas and Hayward faults. Interested persons are invited to participate in a preliminary qualification round, in which they will apply their models to predict ground motions at the locations of approximately 20 near-source recordings from the Northridge event.

A selection committee of seismologists and engineers will then choose a smaller number of candidates to participate in a more rigorous second qualification round, in which predictors' approaches for incorporating parametric uncertainties will be carefully reviewed. Finally, five U.S. and two foreign candidates will be invited to make predictions for the Treasure Island site.

Each invited predictor will receive a substantial honorarium and travel expenses for a workshop to be held in the San Francisco Bay Area in mid-December 2002, where the individual results of the prediction exercise will be presented and discussed.

A more detailed invitation and schedule can be found at: [www.unh.edu/civil-engineering/research/geotechnical.html](http://www.unh.edu/civil-engineering/research/geotechnical.html). The organizing committee would like to invite all persons interested in being part of this exercise to contact Pedro de Alba ([pdealba@hypatia.unh.edu](mailto:pdealba@hypatia.unh.edu)) by December 30, 2001.



## EERI's Learning from Earthquakes Program

# Request for Proposals — A New Round of Grants for Re-Evaluating Past Earthquakes: Opportunities for Assessment of Long-Term Recovery, and Reassessment of Lessons Learned

In 1998, EERI initiated its *Lessons Learned Over Time* series with funding from its Learning from Earthquakes Program, sponsored by the National Science Foundation (NSF). The intent was to capture earthquake lessons that may not be apparent until some years after an event, or that should be re-evaluated in the light of new understanding and knowledge. Six proposals received modest funding for retrospective studies to investigate longer-term recovery and rebuilding issues. These studies were all published in three volumes of the *Lessons Learned Over Time* series, sent to members as a benefit of membership in 1999 and 2000. They included the following:

- 1989 Loma Prieta: An update of a study on the planning process for the reconstruction of Pacific Garden Mall, Santa Cruz
- 1995 Kobe: A trigger for implementation of advanced technologies for earthquake hazard mitigation
- 1989 Loma Prieta and 1994 Northridge: Formulating strategies to optimize local recovery; Assessing cities' recovery management.
- 1993 Maharashtra, India: Assessment of long-term recovery.
- Various U.S. earthquakes: Performance of roll-up garage doors in fire stations.
- 1995 Kobe: Study of repairs to elevated expressways.

The Learning from Earthquakes Program is now soliciting proposals for the next round of these longer-term studies. Modest funds have been earmarked to reimburse expenses for engineers, social scientists, earth scientists, and others to revisit earthquake sites, in the United States or abroad, either individually or as a small team, to carry out brief investigations. These investigations should improve our understanding of post-earthquake recovery and reconstruction, and clarify our understanding of earthquake processes through the application of new knowledge. These projects are not intended to duplicate ongoing NSF research, but to further the state of knowledge by

- providing new information about a specific recovery and reconstruction process,
- correcting mistakes in interpretation or analysis that were made in earlier studies,
- reinterpreting what happened in light of new information or understanding,
- updating an existing database or re-analyzing existing data.

It is anticipated that the average cost of each project, including expenses and a modest honorarium, will range between \$3,000 and \$6,000, with a maximum of \$10,000. Expenses will be reimbursed immediately following the field research. At the conclusion of each project, the authors will be expected to submit for peer review and publication a report, including visuals, that documents their observations and conclusions. It is expected that the length of the reports will depend on the nature of the investigation. It is anticipated that the reports will be published in the *Lessons Learned Over Time* series. Authors would also have the option of submitting their reports for peer review and publication in *Earthquake Spectra*.

EERI expects to select two to four projects by March 2002, with the expectation that the projects will be completed and reports submitted within six months of approval. The intent is to begin soliciting for these projects on an annual basis.

Proposals should focus on lessons that have emerged since the specific earthquake. Interested researchers should submit a three-to-four-page proposal, including a one-page budget, describing the proposed project, the purpose, the value of the information, how the proposed research activity will satisfy one or more of the above criteria, and the anticipated product.

The deadline for receipt of proposals at the EERI office is Friday, January 18, 2002. Results will be announced by Friday, March 1, 2002. Projects are to be completed and submitted to EERI for peer review and publication by August 31, 2002. For more information, contact Marjorie Greene, Learning from Earthquakes Program Manager.

## Announcements

### ATC Seeks Steering Committee for Performance-Based Seismic Design Guidelines Project

The Applied Technology Council (ATC) is seeking candidates for a newly established steering committee to oversee and guide a recently initiated effort funded by the Federal Emergency Management Agency (FEMA) to develop performance-based seismic design guidelines.

The ATC-58 project will consider and build on the FEMA-349 report, *Action Plan for Performance-Based Seismic Design*, which was developed by EERI in 2000 and proposed a 10-year multimillion dollar research and development plan to create and implement comprehensive performance-based seismic design guidelines for both new and existing construction. It is anticipated that the project will include structural performance products, nonstructural performance products, risk-management products, performance-based seismic design guidelines, and a stakeholders guide. Though the project focus is on the development of guidelines, it is anticipated that much of the technology developed will be relevant to other extreme loads, including blast, fire, and severe winds.

ATC will engage a 12-person steering committee composed of leading representatives of interested stakeholder groups, including designers, researchers, regulators, building developers and owners, risk managers, and members of the financial community. The role of the advisory steering committee is to oversee and guide all aspects of the project, including recommending needed products, identifying timetables for various activities, and reviewing documents produced under the project. During the initial phase of the project, which encompasses the first 18 months, it is anticipated that the steering committee will meet three times, two of which will be in conjunction with workshops.

Steering committee members will be selected by the ATC-58 Project Management Committee, in consultation with the FEMA project officer and the FEMA technical monitor. Persons interested in being considered as candidates for the ATC-58 Steering Committee should submit an expression of interest not to exceed four pages in length (a two-page letter and a two-page resume) to ATC by December 31, 2001. Expressions of interest should be submitted to: ATC-58 Project, Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, CA 94065; fax: 650/593-2320; e-mail: [atc@atccouncil.org](mailto:atc@atccouncil.org).

The names of candidates who are not selected to serve on the steering committee will remain on file at ATC, and those persons will be considered for possible involvement in other aspects of the project.

The ATC-58 Project will be led by a six-person Project Management Committee that includes Christopher Rojahn of ATC (project executive director), Ronald Hamburger of ABS Consulting (project technical director), and Jack Moehle of the University of California at Berkeley. (The three other members have not yet been identified.) The FEMA project officer is Michael Mahoney, and the FEMA technical monitor is Robert Hanson.

## News of the Membership

### Chopra and Goel Receive Norman Medal

EERI members Anil Chopra and Rakesh Goel were awarded the 2001 Norman Medal, the highly prized award of the American Society of Civil Engineers (ASCE). This award is given to the best paper among all journals published by ASCE. They won the 2001 award for the paper, "Evaluation of NSP to Estimate Seismic Deformation: SDF Systems," published in the *Journal of Structural Engineering*.

A nonlinear static procedure (NSP) to estimate seismic demands for buildings, which has been widely accepted by the profession, was evaluated in this paper and found to be unreliable. This finding has motivated the profession to re-evaluate inelastic seismic analysis procedures, as evidenced by the recently initiated ATC-55 Project of the Applied Technology Council.

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## Announcements

### Course on Preparing Hazards Mitigation Plans

The University of Washington is offering a Distance Learning course on Preparing a Hazards Mitigation Plan. The course, beginning January 7, 2002, provides a survey of hazards and disaster-related planning by providing the skills needed to prepare plans and strategies. Students will be introduced to a variety of tools enabling them to (1) identify hazards, perform vulnerability and capability assessments, formulate goals and objectives, and develop programs; and (2) build more

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## 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**.

### 2001

#### DECEMBER

4. IBC Seminar, San Luis Obispo, CA. Info: [www.icbo.org](http://www.icbo.org) (9/01)

9-11. CTBUH International Conference, London, UK. Info: [www.ctbuh.org](http://www.ctbuh.org) (4/01)

### 2002

#### JANUARY

17. ATC-50 Seminar, City of Commerce, CA. See page 5. (12/01)

22-24. Urban Hazard Forum, New York, NY. Info: [www.jjay.cuny.edu/urbanhazardsforum](http://www.jjay.cuny.edu/urbanhazardsforum) (9/01)

25-27. Disaster Management Conference, Gujarat, India. Info: [klehrer@yorku.ca](mailto:klehrer@yorku.ca) (11/01)

#### FEBRUARY

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

#### MARCH

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

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

#### APRIL

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

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

26. LA Tall Buildings Council Annual Meeting, Los Angeles, CA. See page 1. (12/01)

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

#### MAY

30-31. ATC-17-2 Seminar, Los Angeles, CA. See page 3. (12/01)

#### JUNE

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

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

#### JULY

21-25. 7th National Conference on Earthquake Engineering, Boston, MA. Info: [www.eeri.org](http://www.eeri.org) (9/99, 8/01, 9/01, 10/01, 11/01)

#### SEPTEMBER

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

9-13. 12th European Conf. on Earthquake Engineering, London, UK. Info: [12ECEE@ice.org.uk](mailto:12ECEE@ice.org.uk) (9/00, 12/00)

#### OCTOBER

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

## Course on Hazard ...

*continued from page 10*

disaster-resistant and sustainable communities, businesses, and non-governmental organizations. At the end of the course, students will have prepared a plan addressing real-life problems. Processes are presented from both public and private-sector

perspectives, with respect to a variety of hazards, including floods, wildfires, tsunamis, landslides, earthquakes, coastal storms, volcanic activity, and man-made disasters (e.g., acts of terrorism).

The Distance Learning course fee is \$846. The instructor is Bob Freitag, director, Institute for Hazards Mitigation. For more information, see [www.outreach.washington.edu](http://www.outreach.washington.edu).

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## Announcements

### Volume on Natural Hazards in El Salvador

Papers are being solicited for a book that will be published by the Geological Society of America in 2003 on natural hazards in El Salvador (see [www.geo.mtu.edu/~raman/GSASalvador.html](http://www.geo.mtu.edu/~raman/GSASalvador.html)). The volume will bring together recent work on all natural hazards and their associated risks in the Central American republic, which was struck by major earthquakes in January and February 2001. The volume will focus specifically on El Salvador, but should be useful for those working to mitigate natural hazards in other countries.

The deadline for submission of papers is June 1, 2002, with revised manuscripts, following peer review, being due by October 30, 2002. The overall editor of the volume is William Rose of Michigan Technical University, supported by co-editors for papers on each different group of hazards.

The editor for papers related to seismic hazards and social issues is Julian Bommer, Imperial College, London SW7 2BU, UK, fax: +44-20-7226-2716, e-mail: [j.bommer@ic.ac.uk](mailto:j.bommer@ic.ac.uk). Anyone wishing to contribute a paper on earthquake-related hazards should contact Bommer.

## Publications

### Multihazard Risk Assessment in Australia

The Cities Project was established in 1996 to undertake research directed towards the assessment and mitigation of risks posed by a range of geohazards to Australian urban communities. This project is an integral part of the newly formed Urban Geoscience Division, supporting the overall objective to facilitate safer, more sustainable, and consequently more prosperous Australian communities.

The Cities Project, together with the new Risk-Modeling Project, is developing the science and techniques needed to conduct quantitative, multihazard risk assessments of urban communities throughout Australia.

The third major report of the Cities Project has recently been released. It focuses on the Southeast Queensland region. Previous reports focused on Cairns (1999) and Mackay (2001). Summaries of all three of these reports, as well as report-ordering information, can be found at the web site [www.agso.gov.au/geohazards/grm/cities2.html](http://www.agso.gov.au/geohazards/grm/cities2.html).

ceive \$1,000 cash, a medal, and an award certificate.

The funding for the competition and award is provided through an endowment established by Simon Wong Engineering, San Diego, California. Simon Wong is an alumnus of the Civil Engineering Department at the University of Nevada, Reno.

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## Announcements

### 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 re-

ceive \$1,000 cash, a medal, and an award certificate. Original papers are sought that describe research conducted by Ph.D. 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](http://bric.ce.unr.edu) contains the guidelines for paper preparation and submission. The deadline for receiving the entries is January 14, 2002.

For additional information, contact M. Saiid Saiidi at [saiidi@unr.edu](mailto:saiidi@unr.edu).



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