



EARTHQUAKE ENGINEERING RESEARCH INSTITUTE NEWSLETTER

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News of the Institute

2004 Annual Meeting: Several Tours Planned

By now, all EERI members should have received the program brochure for the 2004 Annual Meeting, being held February 4-8 at the Omni Hotel in Los Angeles, with the theme "Ten Years After Northridge." Before the technical program begins early on Thursday morning, February 5, there will be an optional all-day Learning from Earthquakes Training Program for Field Reconnaissance on Wednesday, February 4, followed by an informal, get-acquainted "Meet the Mentors" icebreaker that evening.

After adjournment of the technical program on Saturday, February 7, attendees will have the choice of attending the important NEES Education Outreach and Training Workshop or participating in a field trip to one of the



intriguing destinations described below, all of which are relatively close to the hotel. The tour of the Getty Museum is scheduled for Sunday morning beginning at 10 a.m. (personal transportation will be required).

Los Angeles City Hall (see left): Originally constructed in 1928, the Los Angeles City Hall recently underwent a \$300-million seismic renovation and historic restoration, making this a "must-see" visit. A presentation by James Treadaway, the project's construction manager, will focus on its seismic rehabilitation.

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Check Out the New EERI Web Site!

Treat yourself a holiday shopping spree: Check out the new look of EERI's web site and do your holiday shopping online! The "CDs and Publications" section lists all of EERI's products, which can be purchased online using a credit card. **All CDs will be on sale at a 25% discount until January 31 if you order online.** EERI keeps your information safe and secure by using a secure socket layer (SSL) with the latest encryption algorithms for credit card authorization.

LFE Section: There is a fabulous wealth of information at your fingertips in the new "Learning from Earthquakes" section of the web site. It combines information from EERI reconnaissance reports and the World Housing Encyclopedia database. For example, clicking on the name of a country will take you to a page containing links to reports, resources, and photo galleries on earthquakes that have occurred there, as well as housing information and social and demographic data from the housing encyclopedia. The encyclopedia editors are working toward acquiring as much information on each country as possible. There is also a link directly to the encyclopedia from the home page.

Members are urged to visit the new site at www.eeri.org and explore what EERI has to offer.

Obituary

Paul F. Fratessa 1938-2003



Paul Fratessa

Paul F. Fratessa passed away on September 26, following a long battle with melanoma. Fratessa and Mike Wong founded Paul F. Fratessa Associates (now called Fratessa Forbes Wong) in 1978. During his 19 years at Fratessa Forbes Wong, Fratessa not only accomplished noteworthy projects, but also mentored many young engineers and served in leadership roles in the profession. He retired from Fratessa Forbes Wong in 1997 to serve as department head of architectural engineering at Cal Poly, San Luis Obispo. He retired from Cal Poly in March 2003 with a long list of advancements for the program.

Fratessa served on the California Seismic Safety Commission from 1986 through 1995, and was appointed chairman of the commission in 1994 and 1995 by governors

George Deukmejian and Pete Wilson. He served on the state board of directors of the Associated General Contractors from 1984-1987, as president of the board of directors of the Structural Engineers Association of Northern California (SEAONC) in 1989, as a member of the board of directors of the California Universities for Research in Earthquake Engineering (1992), and as president of SEAOC's board of directors (1992). He was elected a fellow of SEAOC and SEAONC in 1995 and 1996 respectively, and was elected an honorary member of SEAONC in 2002. Additionally, he served as chairman of SEAOC's College of Fellows from 1999 to 2002.

Fratessa earned a B.S. in civil engineering in 1961 and an M.S. in 1965, both from San Jose State College. During his early career, he worked at Degenkolb Engineers and then managed Ruthroff & Englekirk's Northern California office for several years.

Fratessa was active in his community as a member of the first Planning Commission of Moraga and as a coach of youth sports. Paul is survived by his wife, Mary-Jo, children Lindsey, Greg and Robyn, son-in-law Patrick, and three grandchildren.

Announcement

Public Health and Disasters Conference

The Third UCLA Conference on Public Health and Disasters will be held May 16-19, 2004, in Torrance, California. The goal of the conference is to promote and facilitate interdisciplinary collaborations to improve public health response to disasters. The conference is specifically designed for health-related professionals as well as individuals and organizations involved in emergency disaster preparedness and response from both the public and private sectors. A discounted registration rate is available until April 1, 2004.

For conference and registration information, visit www.ph.ucla.edu/cphd/conference.html.

Job Opportunity

Executive Director of NEES

The NEES Consortium, Inc., a California not-for-profit corporation, seeks an executive director to work with its members and Board of Directors. The consortium will manage the recently established George E. Brown, Jr., Network for Earthquake Engineering Simulation (NEES) and has submitted a multi-million dollar proposal to the National Science Foundation (NSF) for ten years of operation, beginning October 1, 2004. Funding for a six-month startup effort is anticipated to enable hiring of an executive director beginning April 1, 2004. Applications are due by February 10, 2004. The physical location of the NEES Consortium headquarters has not been decided at this time. The Board is willing to consider all sites, and applicants should address this issue in their application.

The Board is looking for an exceptional leader and spokesperson for this pivotal role. Desirable characteristics include:

- A strong vision for NEES,
- Extensive experience in corporate or institutional management,
- Experience with corporate or institutional startups,
- Experience with and understanding of earthquake engineering research and design,
- Experience in leading or organizing collaborative research,
- Excellent organizational and communications skills,
- An aptitude for information technology issues and the ability to identify opportunities for NEES.

Application information can be found at www.nees.org. The NEES Consortium, Inc., is an equal opportunity, affirmative action employer, and encourages applications from all qualified individuals.

Annual Meeting

continued from page 1

The field trip will include an examination of the actual seismic isolators used in the building and a walk-through of some of the building's historical features that have been restored to their original grandeur.

Mark Davis, an emergency preparedness coordinator for the city of Los Angeles, will lead a tour of the Emergency Operations Center. When the city's Emergency Operations Organization was created in 1980, it was the only local government organization of its kind in the United States. Since then, it has been replicated many times throughout the world. It centralizes command and information coordination to enable its unified chain-of-command to operate efficiently and effectively in managing the city's resources.

Cathedral of Our Lady of the Angels:

Dedicated in September 2002, this new landmark in the Los Angeles Civic Center area features the first use of seismic base isolation in a cathedral anywhere in the world. It also is the largest example of exposed architectural concrete in a California building, and the largest ever use of alabaster windows. EERI members who were involved in the project's design and construction will lead the tour.

Walt Disney Concert Hall: After 15 years of on-and-off design and construction, more than \$275 million, and a lot of opinions, the Walt Disney Concert Hall opened in October 2003. The Frank Gehry silver sail design exterior has already become a Los Angeles icon. The warm interior wood and skylit lobbies are more traditional than the exterior, yet intricately exciting. The hall itself is beautiful and acoustically wonderful. How do you get all that in seismic zone four? Expect to take an hour or two walking through this thrilling building and the elevated outdoor

public garden with John A. Martin and Associates design engineers. Around every curve there seems to be a new angle, so you may find you will want to linger even longer.

Historic Core Tour: Led by a Los Angeles Conservancy docent, this tour is an introduction to the architecture and history of Los Angeles, featuring some of the city's best-loved landmarks, including the Biltmore Hotel, the Central Market, and the Bradbury Building. See how many movies you remember having been filmed at these buildings! The tour will include some adaptive reuse projects that involved converting abandoned office space to loft housing. It will involve a moderate amount of walking close to the conference hotel, covering about 12 blocks with few rest stops.

J. Paul Getty Museum: This Sunday trip consists of a meeting with conservators of the Getty Museum and a museum tour. Jerry Podany, conservator of antiquities at the museum, and his technical staff will make a presentation on the challenges of protecting movable art collections in seismic regions. The presentation will provide an overview of the types of work in the collection and a discussion of protection methods. The visit is intended to be a springboard for discussion of future research and collaboration as well as a back room look at the museum. There will be time for independently visiting the collection and lunch on your own at the museum's cafeteria. Personal transportation is required.

To support and encourage participation in the Annual Meeting by EERI's younger members, student and young professional members are being offered half-price registration (\$200) for the full Annual Meeting. Students and young professionals (age 35 and under) are also eligible for a special Saturday-only registration for \$35.

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 14, 2004. (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 2004 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.

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 election materials include biographies of and vision statements for each of the candidates.

Craig Comartin (Comartin-Reis, Stockton, California) has been nominated for the office of President-Elect. If elected, he will replace outgoing Past President Chris Poland, whose term expires in February 2004. President Thomas D. O'Rourke will remain president for the second year of his two-year term.

The terms of directors Sergio Alcocer and Svetlana Brzev will also expire in February. Nominated to fill their two slots are **Farzad Naeim** (John A. Martin & Associates, Los Angeles, California) and **John W. Wallace** (University of California at Los Angeles) for Director A, and **John L. Aho** (CH2M Hill, Anchorage, Alaska) and **Andrei Reinhorn** (State University of New York at Buffalo) for Director B.

Be sure to mail your ballot so that it is received by January 1, 2004. Contact the EERI office if you have not received it.

News of the Institute

Summary Minutes of the June 10, 2003, Board of Directors Meeting

Call to Order at 8:45 AM: Present were President T. O'Rourke, Past President C. Poland, Secretary/Treasurer R. Mayes, Vice President S. Brzev, Directors D. Ballantyne, M. Comerio, and S. Nathe. Also present were Executive Director S. Tubbesing, and Administrative Assistant V. Austin. Directors S. Alcocer and B. Clark were not present. Alcocer joined the meeting via conference call in the afternoon.

NEHRP testimony and next steps: O'Rourke reported that he testified before the House Research Subcommittee and that the hearing went well. (See page 1 of the June 2003 *Newsletter*.)

The NEHRP Coalition, co-chaired by Chris Poland, believes that the most pressing need is for additional funding for ANSS and NEES. If \$100 million is authorized, the coalition proposes that \$21 million be earmarked for FEMA, \$46 million for NSF (\$30 million for NEES), \$8 million for NIST, and \$25 million for USGS.

Review of conflict-of-interest policy: The Board reviewed EERI's conflict-of-interest policy and reiterated that no real or apparent conflict of interest should arise when committee or Board members submit proposals to the Institute for funding. This policy, which is always carefully followed in decision-making processes, will be reviewed by the Board during the first meeting of each year for the benefit of new Board members. The policy will also be put on EERI's web site to facilitate public review.

Revenue and Expense Report: Mayes reviewed the Report of Revenue and Expenses as of April 30,

2003. The combined balance sheet showed an opening fund balance of \$141,958, which was augmented by \$351,701 in excess revenues over expenses.

EERI's total liabilities of \$99,038, combined with the total fund balance of \$493,659, equaled \$592,697. The Endowment Program's opening balance of \$552,753 was augmented by \$19,605 in excess revenues over expenses, for a total fund balance of \$572,358. Total liabilities in the amount of \$278,837, combined with the total fund balance of \$572,358, equaled \$851,195. The balance of the combined association, endowment, and technical programs equaled \$1,443,892.

The Investment Funds Report showed a balance of \$321,867 in the General Administrative Short-Term Fund and \$30,286 in the Long-Term Investment Fund. The Endowment Fund balance totaled \$572,368, and the Friedman Family Investment Fund totaled \$126,217. The balance of the interest-bearing checking account was \$29,486. The combined funds in both the general administrative checking and investment accounts totaled \$383,678.

The Grants Status Summary showed that as of April 30, 2003, \$1,460,097 has been expended of \$4,186,644 in active grants, leaving a balance of \$2,726,547.

Endowment and Investment Reports: Mayes reported that there has been some growth in the Endowment Fund. However, he advised that the Board prepare for future market downturns well in advance of their occurrence. The Board will discuss this further at the next meeting.

Cost of core EERI member services: Mayes stressed that grant monies are crucial to the Institute's financial health. Without them, EERI would be faced with an annual deficit of \$323,000 at current staffing levels. Mayes advised the Board

that membership levels were still low. The Board considered a number of actions to increase membership in the next few months.

IAEE support: EERI has contributed \$3,000 to enable participants from developing countries to attend the 13th World Conference on Earthquake Engineering. EERI members will be invited to contribute individually. (See page 9 of this *Newsletter*.)

Endowment Committee Report: The Seattle Scenario: Ballantyne reported that preliminary results for the hazards component of the scenario were presented at the June 3 workshop. The next workshop in September will consider emergency response and economic impacts. The Cascadia Region Earthquake Workgroup will take the lead in evaluating economic impacts.

Earthquake Engineering Legacy Workshop: O'Rourke reported on the plans for the workshop. (See page 2 of the August 2003 *Newsletter*.)

2004 project funding: In view of the prevailing economic conditions over the past year, the Board advised the Endowment Committee to limit its funding of 2004 projects to \$50,000. This decision is subject to review later in 2003 if a compelling proposal is submitted.

Publications Policy Committee Report: Special Earthquake Issues (SIE): Nathe indicated that concerns have been raised that the format of the templates for publishing SIE and LFE reports electronically are not sufficiently flexible to accommodate social science sections. Marjorie Greene discussed with *Spectra* Editor Farzad Naeim the need for some latitude. Naeim reached an agreement with the Publications Task Force that will maintain flexibility and allow him to make the final decision.

AIP Membership Controls: Nathe reported that about 450 members

have signed up to have online access to *Spectra*. Members who have not signed up by the deadline will still be able to register after the controls have been instituted.

Spectra Online institutional user fees: The Board approved a motion that institutional members and institutional subscribers to *Spectra* should be offered the "print plus online" option, along with ten IP addresses at the current Institutional Member dues rate.

Learning from Earthquakes Report: The Board concurred that reconnaissance teams are an effective way to involve young professionals in the Institute. They concluded, however, that not every reconnoitered earthquake warrants a full issue of *Spectra*. Depending on the significance of the data emerging, reconnaissance teams should be offered the opportunity to author articles for a regular *Spectra* issue

2006 National Conference planning update: Poland reported that an agreement has been reached among SSA, the California Governor's Office of Emergency Services, and EERI to hold their 2006 annual meetings and EERI's 8th National Conference during the 100th anniversary observance of the 1906 San Francisco earthquake. A contract has been signed with the St. Francis Hotel, but a final agreement has not yet been reached with the Moscone Center. Poland is planning to convene the core group for a meeting by the end of July.

Housing Encyclopedia: Brzev reported on recent Housing Encyclopedia activities and progress (see pages 1 and 6 of the June 2003 *Newsletter*).

Status of current international agreements: The Board reviewed a draft of a Collaborative Agreement between the United States and Japan. O'Rourke will let Masayoshi Nakashima know that the agreement is acceptable to the EERI

Board and will ascertain an appropriate date for the signing ceremony. Alcocer reported that there would be a joint workshop between Mexico and the United States regarding lessons learned from the Colima earthquake. The Board acknowledged that the effectiveness of the international agreements depends on a joint commitment to collaborate, and that this was a good example of how both parties can benefit.

The meeting was adjourned at 5:00 p.m.

Call for Papers

Journal of Critical Infrastructures

The Board of Editors of the International Journal of Critical Infrastructures (IJCIS) is calling for submission of papers addressing issues such as:

- Analysis and modeling of the interdependencies between critical infrastructures;
- Direct and indirect economic and societal cost assessment of cascading failures across regions and over time;
- Evaluation of the impact of policies and governance on the vulnerability of critical infrastructures;
- Sensors and sensor networking for early warning, emergency control, and restoration;
- Design of a global information infrastructure for disaster risk management to mitigate the impact of extreme natural hazards.

IJCIS is an interdisciplinary and refereed journal that provides cross learning between different disciplines: business and economic, societal and managerial, and scientific and technological. Prospective papers should be unpublished and present new ideas, concepts, or methodologies. For more information, visit www.inderscience.com/.

Call for Abstracts

DFI Annual Conference

The 2004 Annual Conference on Deep Foundations is scheduled for September 29-October 1 in Vancouver, British Columbia, Canada. Papers are solicited on a broad range of topics, including case studies involving foundation systems common to the area and within similar ground conditions; historical evolution of deep foundations; relationship between use of design, construction, and equipment; quality control, quality assurance and non-destructive testing; and innovation.

Abstracts of approximately 250 words should be sent by **January 5, 2004**, to the DFI Headquarters e-mail address: dfihq@dfi.org. All authors of accepted abstracts will be required to submit papers of up to 15 pages in length. From those accepted abstracts, speakers will be chosen to make oral presentations. Draft papers are due May 7, 2004.

ASCE Probabilistic Mechanics and Structural Reliability

Sandia National Laboratories has issued a call for abstracts for the Ninth ASCE EMD/SEI/GI/AD Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability, to be held July 26-28, 2004, in Albuquerque, New Mexico. Papers are encouraged in the areas of codes and standards, damage and maintenance, geotechnical systems, fatigue and fracture mechanics, risk management, site characterization, and many other areas. Abstracts are due January 5, 2004. For more information on the conference, abstract submittal, and registration, visit www.esc.sandia.gov/PMCconferenceinfo.html.

Publications

ATC-13-1 Report

The Applied Technology Council (ATC) has announced the release of *ATC-13-1: Commentary on the Use of ATC-13 Earthquake Damage Evaluation Data for Probable Maximum Loss Studies of California Buildings*. The purpose of the *Commentary* is to provide guidance to consulting firms who are using ATC-13 expert-opinion data (published by ATC in 1985) for probable maximum loss (PML) studies of California buildings.

The report explains the development of the ATC-13 expert-opinion estimates of physical damage caused by earthquakes, the limitations of the ATC-13 data, and the issues associated with using the data for PML studies. The document stresses that the ATC-13 data were developed to estimate the average seismic performance of large numbers of buildings and thereby estimate earthquake losses on a regional basis; they were never intended to be used for single-building damage and loss assessment.

The 66-page *ATC-13-1 Commentary* was funded by the ATC Henry J. Degenkolb Memorial Endowment Fund. All proceeds from the sale of the report will be deposited into this fund. Copies of the *ATC-13-1 Commentary* can be obtained from ATC (www.ATCCouncil.org). The price is \$30 per copy (plus sales tax for California residents, plus shipping).

FEMA 395 Manual

The Federal Emergency Management Agency has released *FEMA 395, Incremental Seismic Rehabilitation of School Buildings (K-12)*. The principal authors are Frederick Krimgold, David Hattis, and Melvyn Green. This 73-page manual presents an innovative approach that phases in a series of discrete rehabilitation actions implemented over a

period of several years (incremental seismic rehabilitation), to create an effective, affordable, and non-disruptive strategy for responsible mitigation action. It can be integrated efficiently into ongoing facility maintenance and capital improvement operations to minimize cost and disruption. It provides school administrators with the information necessary to assess the seismic vulnerability of their buildings and to implement a program of incremental seismic rehabilitation for those buildings.

The report is in three parts: Critical Decisions for Earthquake Safety in Schools; Managing the Process for Earthquake Risk Reduction in Existing School Buildings; and Tools for Implementing Incremental Seismic Rehabilitation in School Buildings. The report can be downloaded from www.edfacilities.org/pubs/schools.pdf.

ERES 2003 Proceedings

The *Proceedings of the Fourth International Conference on Earthquake Resistant Engineering Structures (ERES)* are available from WIT Press. The conference took place September 22-24, 2003 in, Ancona, Italy. The papers are authored by scientists working in industry as well as in academic and research institutes around the world and are organized into the following sections: Earthquake-Resistant Design; Bridges; Seismic Behaviour and Vulnerability Analysis; Seismic Isolation and Control; Monitoring and Testing; Passive and Active Control; and Ground Conditions and Site Effects.

The 400-page book, edited by G. Latini of the Università Politecnica delle Marche in Italy and C.A. Brebbia of the Wessex Institute of Technology in the United Kingdom, costs US\$211 (Euro198) and may be purchased from www.witpressusa.com/acatalog/9844.html.

Learning from Earthquakes

7.3 Earthquake in Russia

The following preliminary summary was submitted by EERI member Mark Klyachko of the Ministry of Construction, Kamchatka, Russia.

A $M_w = 7.3$ earthquake occurred on September 27, 2003 at 6:33 p.m. local time in the rural area of the Gorny Altai region of southwestern Siberia, Russia (49.98N, 87.90E, depth of focus 16 km).

In the epicentral zone, where about 40 villages and small towns are located, earthquake intensities reached 7-8 (MSK/EMS). The earthquake was felt with intensities of 3-4 in parts of Siberia, including the cities of Kemerovo and Novosibirsk. Intensity in the city nearest to the epicenter, Barnaul, was estimated at about 5-6. The population in the epicentral area is approximately 24,500.

About 900 houses, mostly single-story masonry, were damaged (intensity of 2-4 MSK/EMS). There were three fatalities and about 1,800 people were left without homes. Seven hospital buildings and a few schools were not serviceable. The water supply completely stopped. Landslides occurred in the Kosh-Agach and Ust-Ulagan areas, and the Chuya River flooded. A special team of the Russian Federation's Ministry of Civil Defense, EMER-COM, went to the affected area and erected 1,000 temporary shelters.

According to the seismic zonation map for Russia, this area is estimated to be seismically active. This earthquake is the largest in this region since an event on December 20, 1761, that is thought to have had a magnitude of about 7.7. Macro-seismic field investigations will be organized to improve the understanding of the seismicity of the region.

News of the Institute

Media Briefings on Loma Prieta Anniversary

To observe the anniversary of the Loma Prieta earthquake of October 17, 1989, and to assess risk reduction progress made since then in Berkeley, California, EERI's Northern California Chapter organized two media briefings and a seismic walking tour on October 16. They were part of the chapter's four-year Quake '06 Campaign. Media coverage of these events included a front page article in the *Oakland Tribune*. The first briefing took place at UC Berkeley, which is halfway through a \$1 billion retrofitting, rebuilding program. The briefing was followed by a guided seismic tour of several locations on campus and in the city of Berkeley. EERI chapter members who made presentations at the briefings included Alan Kropp, Lind Gee, Steve Hom, David Bonowitz, Craig Comartin, Arietta Chakos, Tom Tobin, and Charles Scawthorn.

The tour began at the Hearst Memorial Mining Building, an historic preservation project using base isolation techniques. The Stanley Biosciences and Bioengineering Facility, currently under construction, utilizes performance-based engineering technologies designed to protect critical research projects. In the underground Doe Library, reconstruction after demolition of the central stack area secured the contents against both earthquake shaking and fire. The tour also featured the external bracing system used on University Hall, and then moved on to the downtown area's Berkeley High School and the newly renovated public library. It concluded with a second briefing at the Berkeley Civic Center that featured remarks by Mayor Tom Bates and Chief of Staff Arietta Chakos. They discussed how their city has managed to rebuild every public school, fire station, and most major city buildings. The city has also offered resources, fee waivers, and tax incentives that have resulted in improvements in approximately 60 percent of the city's single-family homes.

For more information on the Quake '06 Campaign, visit <http://www.quake06.org/quake06.html>.

Announcement

Bridge Engineering Student Research 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 \$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.

Original papers are sought that describe research conducted by Ph.D. or master's 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 27, 2004. For additional information, contact M. Saiid Saiidi at saiidi@unr.edu.

Academic Job Opportunity

Purdue Assistant Professor

The Department of Earth and Atmospheric Sciences at Purdue University seeks a Ph.D. geologist/geophysicist who conducts research in the analysis of earthquakes and active crustal deformation for a tenure-track assistant professor position beginning August 2004. The appointee will teach both undergraduate and graduate students. Individuals who combine quantitative techniques with physical models of active deformation and earthquake processes and whose research links with earthquake engineering are encouraged to apply. Screening of applications will begin on January 15, 2004. For more information, visit www.eas.purdue.edu/announce/job_ops/index.html#ActiveTectonics.

Announcement

Performance-Based Engineering and Seismic Retrofit

The American Society of Civil Engineers (ASCE) Metropolitan Section Infrastructure Group and the Polytechnic University Civil Engineering Department have organized a technical seminar and exhibition March 22-25, 2004, at the Dibner Auditorium, 5 Metrotech Center, Brooklyn, New York. The title of the seminar is "Performance-Based Earthquake Engineering and Seismic Retrofit of Structures." Topics include ground motion in the NYC region, seismic isolation systems, the NEES Laboratory at SUNY Buffalo, seismic retrofit of the Bronx-Whitestone Bridge, and many others. For a copy of the program and registration information, visit sections.asce.org/metropolitan/tech_groups/infrastructure.html.

News of the Institute

Endowment Fund Donors

EERI would like to thank the donors to the Endowment Fund listed below and acknowledge their recent contributions. EERI's Endowment supports innovative projects that ensure the Institute's continuing leadership in the earthquake engineering professions.

\$500-\$1000

Pacific Gas & Electric Co.

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\$201-\$500

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Other Amounts

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Results of NorCal Chapter Election

The new and continuing officers and Board of Directors for EERI's Northern California Chapter are as follows:

President: Keith Knudsen
Past President: Peter Yanev
Vice President: vacant until appointed by new Board
Secretary/Treasurer: Fred Turner (newly elected to this office)

Board member: David Bonowitz
Board member: William "Woody" Savage
Board member: Laurie Johnson (newly elected)
Board member: Richard Eisner (newly elected)
Board member: Daniel Shapiro (newly elected)

Retiring Board members include Stephanie King, Charles Scawthorn, Tom Tobin, and Zan Turner. All but King (who was elected to and served a one-year term) had served on the Board since the chapter's founding two years ago.

Scawthorn, president-elect for the 2002-2003 year, resigned from the Board for personal reasons. Because the chapter bylaws direct the Board to fill vacancies, it appointed Vice President Knudsen to fill the office of president-elect. The new Board will decide how to fill the vacant position of vice president. If it is filled by a current Board member, an additional Board member likely will be recruited.

News of the Profession

Earthquake Engineering Seminars

The American Society of Civil Engineers (ASCE) is sponsoring several continuing education seminars on earthquake engineering. The first, "Fundamentals of Earthquake Engineering," will be offered January 15-16, 2004, in Reno, Nevada, and March 4-5, 2004, in Charleston, South Carolina. The purpose of this seminar is to improve understanding of the principles of earthquake engineering by practicing professional engineers who have had little or no previous training in earthquake engineering. For more information, visit training.bossintl.com/html/earthquake-engineering.html.

A second seminar, "Seismic Design and Performance of Building Structures," will be offered January 29-30, 2004, in Denver, Colorado, and March 4-5, 2004, in Boston, Massachusetts. The seminar provides an introduction to the principles of seismic design, earthquake characteristics, structural dynamics, fundamentals of earthquake engineering, and design examples to demonstrate the use of building codes as well as code limitations. For more information, visit training.bossintl.com/html/seismic-design-structures.html.

The St. Louis Chapter of ASCE (in cooperation with SEAKM and SEAIO) will sponsor an Illinois Structural Engineering License Refresher Course at SIU-Edwardsville on Saturday afternoons from January 24-April 3. The course will also be a good review for the structural specialty PE exam. Topics will include steel, concrete, timber, masonry, concrete, prestressed/post-tensioned concrete, foundation and bridge design, structural analysis, and seismic design of bridges and buildings. For more information, contact Brad Cross at 618/650-2648, e-mail: bcross@siue.edu.

Call for Abstracts

Disaster-Resistant California Conference

The California Governor's Office of Emergency Services (OES) is calling for abstracts for the Fourth Annual Disaster-Resistant California (DRC) Conference to be held May 3-5, 2004, at the historic Sheraton Grand Hotel in Sacramento, California. The DRC is designed to bring together emergency management professionals, local and state government representatives, private business partners, and researchers to share ideas, technology, and resources for the purpose of mitigating disasters. The conference theme is "Disaster Resistance: Realistic Strategies." Suggested topics for papers include, but are not limited to:

- Technology in emergency management;
- Strategies for securing mitigation funding;
- Disaster Mitigation Act of 2000;
- Cost-benefit analysis;
- Role of community-based organizations in mitigation, response, and recovery;
- Successful community emergency preparedness/mitigation education
- Hazard mitigation in educational institutions;
- Legislative initiatives in support of multihazard mitigation;
- Practical applications in emergency management;
- Successful mitigation projects based on cost-benefit analysis;
- International multihazard mitigation efforts;
- Vulnerable populations issues with respect to response, recovery, and mitigation efforts.

The deadline for receipt of one-page (250 words maximum) abstracts is December 10, 2003. Further information on this conference, abstract submittal, and registration is available at www.drc.ca.gov.

Announcement

Final Reminder: 13WCEE Travel Donations

EERI members are invited to make contributions to a fund that will be used by the Organizing Committee of the 13th World Conference on Earthquake Engineering (13WCEE) to enable colleagues from countries with less favorable economic conditions to attend the 13WCEE. These colleagues would be otherwise unable to attend the conference, which will be held in Vancouver, BC, Canada from August 1-6, 2004.

The EERI Board of Directors voted to contribute \$3,000 from EERI. Individual donations sent to EERI will be over and above the \$3,000, and will be transmitted to the International Association of Earthquake Engineering before the end of the calendar year.

It is not too late to make a donation to this worthy cause. You may send your check, made payable to EERI (indicate that it is a contribution to the 13WCEE) or send an e-mail request to eeeri@eeeri.org to receive a form for paying with a MasterCard or Visa credit card.

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.

These contributions provide essential funding for projects like these examples from previous years: the White Paper series of publications on *Public Policy and Building Safety*; *Construction Quality, Education and Seismic Safety*; *Ethical Issues and Earthquake Risk Reduction*; and *Financial Management of Earthquake Risk*; seismic legislation on the web; the Workshop on Construction Quality; "Reducing Earthquake Damage through Quality Construction" slides and CD-ROM; a moderated discussion of ethical dilemmas on the web; "Resisting the Forces of Earthquakes," a video for carpenters and inspectors; and the World Housing Encyclopedia web site.

These projects represent creative multidisciplinary strategies targeted at improving the sustainability of the built environment. Two influential projects funded by the Endowment Fund are currently underway:

(1) The development of guidelines for regional earthquake scenarios that can be used to advocate for public mitigation actions. The guidelines are based on a Seattle Fault Scenario that will be completed in February 2004.

(2) The creation of a White Paper that summarizes the technical innovations of earthquake engineering in the past three decades and demonstrates the value of those advances in securing society from other man-made and natural hazards.

The work done by EERI members to mitigate losses from earthquakes is more relevant than ever. As individual members reflect on the achievements of our association of earthquake professionals, they can be assured that each gift to EERI benefits many generations to follow.

Calls for Abstracts

L.A. Tall Buildings Conference

The 2004 Annual Meeting of the Los Angeles Tall Buildings Structural Design Council will be held in Los Angeles on May 7, 2004, at the University of Southern California's Davidson Center. It will commemorate "A Decade of Experience." The council has issued a call for papers. The meeting will focus on the direct effect on structural engineering design practice of the key earthquakes of the past 10 years, including the 1994 Northridge and 1995 Kobe earthquakes.

Considering the context of the past 10 years, suggested topics for papers include:

- Impact of new knowledge on structural design practice;
- Impact of changes in building code provisions for steel, concrete, precast concrete, masonry, wood, nonstructural components, and energy dissipation;
- Impact of new geotechnical engineering practices;
- Changes in the legal environment;
- Shortcomings still to be rectified.

A one-page abstract must be received by December 15, 2003. Final papers are due March 15, 2004. For more information, visit www.TallBuildings.org.

2004 SMT: NDE/NDT for Highways and Bridges Conference

Sponsored by the American Society for Nondestructive Testing (ASNT), the New York State Department of Transportation, and the Federal Highway Administration, the Conference on Structural Materials Technology (SMT): Nondestructive Evaluation/Nondestructive Testing (NDE/NDT) for Highways and Bridges 2004 will be held September 14-17,

2004, in Buffalo, New York. The meeting will provide an opportunity to exchange information among researchers, practitioners, state transportation officials, and infrastructure owners on the application of NDE/NDT technologies for the condition assessment of highways and bridges and on the state of the art in NDE/NDT methods and research.

Conference topics include condition assessment of existing highway infrastructure; fabrication and construction-related inspections; health monitoring of structures and pavements; quantification of bridge deterioration; implementation of NDE/NDT technologies; inspection and evaluation challenges faced by state departments of transportation; detection of premature failures; inspection and evaluation of fiber reinforced polymer (FRP) material and structures; innovative sensors for civil infrastructure; long-term monitoring of bridges and highways; inspection of light poles and sign supports; and training and certification of inspection personnel. Abstracts must be received by February 27, 2004. The preferred method of abstract submission is via the conference web site at www.asnt.org/events/events.htm.

Basin and Range Province Seismic Hazards Summit II

The Western States Seismic Policy Council, the U.S. Geological Survey (USGS), the Federal Emergency Management Agency, and geoscientists from ten western states are jointly sponsoring the Basin and Range Province Seismic Hazards Summit II. With the theme of "Evaluating Approaches, Techniques, and Policies for Seismic Hazard Characterization in Extensional Regions," the conference, will be held at the John Ascuaga's Nugget Resort, Reno, Nevada, May 16-19, 2004.

This meeting will bring together ten

state surveys, the USGS, university professors, and some of the best minds in contemporary science and engineering geology to discuss seismic hazard analysis in the Basin and Range Province. Quaternary fault and seismicity maps from each of the ten participating states will be available to use as a backdrop for neotectonic, seismic hazard, and policy discussions. The format of the summit will be a sequence of summary talks given on specific topics relevant to seismic hazards in the Basin and Range Province, as well as panel discussions and interactive audience participation. A policy discussion covering the day's topics will follow, and any policies that gain a majority vote will be forwarded to the Western States Seismic Policy Council to consider. Additional specific seismic hazard analyses or topics will be presented in a conference-long poster session.

Titles are due February 5, 2004, followed by extended abstracts on March 10, and papers on June 30. Titles and abstracts can be sent to Terri Garside, tgarside@unr.edu. Further details will be posted at www.nbmng.unr.edu

Job Opportunity

US Geological Survey

The U.S. Geological Survey in Golden, Colorado, seeks to fill a position for a research civil/structural/geotechnical engineer in the area of earthquake hazard and risk assessment. Position USGS-C-2004-0001 DEU closes February 25, 2004. Detailed information can be found online at www.usajobs.opm.gov/. U.S. citizenship is required. Contact: Office of Personnel 303/236-9557.

For additional information, contact E. V. Leyendecker at leyendecker@usgs.gov. The U.S. Geological Survey is an equal opportunity employer.

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**.

DECEMBER

8-12. AGU Fall Meeting, San Francisco, CA. Info: www.agu.org/meetings/fm03 (9/03)

8-9. ACI Seismic Bridge Design and Retrofit Conf. La Jolla, CA. Info: www.aci-int.org (7/03)

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

2004

JANUARY

7-9. 11th Int'l Conf. on Soil Dynamics and EQ Eng./3rd Int. Conf. on EQ Geotech. Eng., Berkeley, CA. Info: www.sdee-egge.org (11/03)

FEBRUARY

4-7. EERI Annual Meeting, Los Angeles, CA. **See page 1.** (9/03, 10/03, 11/03, 12/03).

9-11. 4th Nat'l Conf. on Bridges and Highways, Memphis, TN. Info: www.conferences.uiuc.edu/seismic (8/03)

19-21. World Conf. on Natural Disaster Mitigation, New Delhi, India. Info: www.wfeo-cee.org (7/03)

20-21. 2004 PEER Annual Meeting, Palm Springs, CA. Info: peer.berkeley.edu (10/03)

MARCH

5-6. Asia Conf. on EQ Eng, Manila, Philippines. Info: www.aseponline.org/ACEE.htm (10/03)

22-25. Performance-Based Earthquake Eng. and Seismic Retrofit of Structures, Brooklyn, NY. **See page 7.** (12/03)

APRIL

13-17. 5th Int'l Conf. on Case Histories in Geotech. Eng., New York,

NY. Info: www.umn.edu/~eqconf/5thCHConf (1/03, 3/03)

MAY

3-5. 4th Annual Disaster-Resistant California Conf., Sacramento, CA. **See page 9.** (12/03)

7. 2004 L.A. Tall Buildings Conf., Los Angeles, CA. **See page 10.** (12/03)

16-19. Basin and Range Province Seismic Hazard Summit II, Reno NV. **See page 10.** (12/03)

16-19. Third UCLA Conf. on Public Health and Disasters, Torrance, CA. **See page 2.** (12/03)

20-21. NEES Annual Meeting, California. Info: www.nees.org (11/03)

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

JUNE

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

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

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

JULY

6-9. Int'l Symp. on Network and Center-Based Research for Smart Structures Tech. and EQ Eng., Osaka, Japan. **See page 12** (12/03)

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

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

26-28. ASCE EMD/SEI/GI/AD Specialty Conf. on Probabilistic Mechanics and Structural Reliability, Albuquerque, NM. **See page 5.**

(12/03)

AUGUST

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

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

SEPTEMBER

14-17. NDE/NDT for Highways and Bridges 2004, Buffalo NY. **See page 10.** (12/03)

29-October 1. Annual Conf. on Deep Foundations, Vancouver, B.C., Canada. **See page 5** (12/03)

2005

FEBRUARY

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

2006

APRIL

17-21. 8th U.S. Nat'l Conf. on EQ Eng. (8NCEE) and EERI Annual Meeting, San Francisco, CA. (8/03)

Announcement

USGS Postdoctoral Research Opportunity

The U.S. Geological Survey (USGS) in Golden, Colorado has postdoctoral research opportunities for engineers, geologists, and/or seismologists in earthquake research. Information on the program and the two-year positions (Opportunity Numbers 7, 8, and 10) can be found online at geology.usgs.gov/postdoc/.

For additional information, contact E. V. Leyendecker (leyendecker@usgs.gov), A.D. Frankel (afrankel@usgs.gov), or R.L. Wesson (wesson@usgs.gov). U.S. citizenship is required. The USGS is an equal opportunity employer.

News of the Membership

Olson Wins Award



Scott M. Olson

EERI member Scott M. Olson, senior project engineer with URS Corporation, St. Louis, along with Timothy D. Stark, a professor of civil and environmental engineering at the University of Illinois at Urbana-Champaign, won the R. M. Quigley Award of the Canadian Geotechnical Society for 2002. The Quigley award is given annually for the best paper in the *Canadian Geotechnical Journal*. The award for the paper entitled "Liquefied Strength Ratio from Liquefaction Flow Failure Case Histories" was presented at the awards ceremony at the 56th Annual Canadian Geotechnical Conference in Winnipeg, Manitoba, on September 29, 2003.

Call for Abstracts

Smart Structures Technology Symposium

A call for abstracts has been issued for the International Symposium on Network and Center-Based Research for Smart Structures Technology and Earthquake Engineering, scheduled for July 6-9, 2004, in Osaka, Japan.

This symposium is organized to spur the evolving transformation of earthquake engineering from discipline-oriented investigations to center- and network-based efforts, and from conventional engineering approaches to cross-cutting solutions that rely more and more on enabling technologies.

The symposium is a special forum to commemorate the lifetime accomplishments of professors Takuji Kobori of Kyoto University and Paul Jennings of Caltech. It is sponsored by the Japan Society for the Promotion of Science, the National Science Foundation (NSF), the National Research Institute for Earth Science and Disaster Prevention, the Asia-Pacific Network of Earthquake Engineering Research, and the Asia-Pacific Network of Centers of Research in Sensors and Smart Structures Technologies.

The conference objectives are (1) to update the state of the art in earthquake engineering, sensors and control, and advances in smart structures research and technology; (2) to identify research opportunities and challenges that integrate earthquake engineering and smart structures technology, and that interface conventional engineering with new technology-based research; (3) to develop center-to-center and network-based mechanisms for research collaboration and development of innovative earthquake hazard mitigation measures; and (4) to develop implementing methods and procedures for a global exchange of data among researchers and students.

The deadline for submitting a one-page abstract in a PDF file is January 9, 2004. A final six-page paper is due by June 1, 2004. For more information regarding the symposium, contact Ma Hua (mahua@rch.eng.osaka-u.ac.jp).

Some travel support may be available based on a pending travel grant proposal that has been submitted to NSF. Contact Professor M. P. Singh (mpsingh@vt.edu) for more information.



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