



## EARTHQUAKE ENGINEERING RESEARCH INSTITUTE NEWSLETTER

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### EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

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### News of the Institute

## 2007 Annual Meeting Highlights

Seismic Challenges in a Changing Urban Environment was the theme of the 59th Annual Meeting, in Los Angeles. The program provided a vision of the new urban environment and its vulnerability to major disasters. Of great interest were the two panel discussions on very tall buildings and strategies to mitigate future urban disasters.

During Thursday's luncheon, Wilfred (Bill) D. Iwan of the California Institute of Technology received the George Housner Medal (below). Iwan commented that the medal was especially meaningful to him because, beginning with his student days at Caltech, George Housner has been a mentor and close colleague.

The first annual Heritage Innovation Prize, created by EERI's Heritage and Existing Structures Committee, was presented by committee chair Debra Laefer to Jerry Podany, conservator of antiquities at the Getty Museum. The \$1,000 prize is funded by EERI Subscribing Member Wiss Janney Elstner Associates, Inc. Anagnos bestowed a Special Recognition Award on S. Chi Liu of



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*It was standing room only during the 4th Annual Undergraduate Seismic Design Competition at the Annual Meeting.*

## Iwan Receives Housner Medal

At EERI's Annual Meeting (see above), EERI member Wilfred (Bill) D. Iwan was awarded EERI's highest honor, the 2007 George W. Housner Medal, for his sustained and significant contributions to research in earthquake engineering, his long service and extensive contributions to earthquake safety policy as a member of the California Seismic Safety Commission, his invaluable contributions over the years to EERI as chair of various committees, and most recently his coordination of the reconnaissance effort and reports on the Sumatra earthquakes and tsunami. He is professor of applied mechanics, emeritus, and director of the Earthquake Engineering Research Laboratory at the California Institute of Technology, where he has



*Wilfred (Bill) D. Iwan*

*continued on page 6*

## Annual Meeting Highlights

*continued from page 1*

the National Science Foundation in recognition of his contributions to supporting critical research in earthquake engineering, enabling the United States to become a leader in the field. Ellen Rathje of the University of Texas, Austin, received the Shah Family Innovation Prize. Eric Elsesser, principal and structural engineer at Forell/Elsesser Engineers, delivered the 2007 Distinguished Lecture, "What's Around the Corner in Seismic Design?"

Friday's Annual Business Luncheon included presentations of the annual reports by President Anagnos and Treasurer Marshall Lew (see page 4). Anagnos recognized new honorary members, Bill Holmes and Bob Preece, for their lifelong contributions to earthquake engineering (see page 2 of the February *Newsletter*). The 2005 Outstanding Earthquake Spectra Paper Award went to Jonathan Stewart and Yoojoong Choi for "Nonlinear Site Amplification as a Function of 30-m Shear Wave Velocity" (volume 21, no. 1).

Lucile Jones of the U.S. Geological Survey addressed the group as Friday's banquet speaker. In her talk, "Shift Happens—Dare to Prepare," she reminded the audience that this year is the 150<sup>th</sup> anniversary of the 7.9 magnitude 1857 Fort Tejon earthquake on the southern San

Andreas fault. She described how the southern California earthquake community is commemorating the anniversary with an earthquake readiness campaign.

After Saturday's lunch, Gail Atkinson, professor of geophysics at the University of Western Ontario, presented the 4th Annual SSA/EERI William B. Joyner Memorial lecture on "Predicting Earthquake Ground Motions: Myths and Mysteries." The last technical session of the meeting dealt with the future of earthquake engineering.

Throughout the meeting, 12 teams of students competed in the 4th Annual Undergraduate Seismic Design Competition, giving us a wonderful chance to view our future engineers in action. On Thursday, they presented their designs of scale models of high-rise office buildings made with balsa wood. On Friday, their structures were subjected to earthquake motions on a shake table in front of other students, faculty, and professionals.

On Saturday afternoon, the meeting came to an exciting close with an awards ceremony in which Oregon State's team took first place, followed by San Jose State, UC Davis in third, and the University of Hawaii in fourth. The Charles Richter (spirit of competition) and Egor Popov (structural innovation) awards went to Cal Poly San Luis Obispo and the New Jersey Institute of Technology,

respectively.

Two field trips provided stimulating diversions from the technical sessions. Thursday's tour of Universal Studio's back lot provided insight into movie making magic with compelling stories and amazing sights. The terror of the simulated subway earthquake was matched by the thrill of the journey through the spinning mummy's tunnel. At the end of the meeting, nearly 50 participants took advantage of the rare opportunity to visit the recently reopened Getty Villa Museum in Pacific Palisades.

EERI extends thanks to organizing committee members Bob Bachman (chair), Arzhang Alimoradi, Eric Browning, Ron Eguchi, Orhan Gurbuz, Vincent Ip, Payam Khashaee, Marshall Lew (ex officio), LeVal Lund, Peggy Quijada, John Wallace, and Nabih Youssef for their hard work in putting together an excellent and informative program.

EERI also greatly appreciates Geomatrix Consultants, Inc., Kinematics, Inc., and MACTEC Engineering & Consulting, Inc., for their financial sponsorship of the Annual Meeting and to FEMA for funding that enabled 16 students from the United States, Mexico, and Canada to take part in the meeting (see page 6).

The April *Newsletter* will have more information on the Distinguished Lecture and other awards.

## Clarification of Use of EERI Video Downloads

Recently EERI staff realized that there has been a misunderstanding regarding the terms of purchasing the new web-based video downloads of presentations from the 2006 seminar, "New Information on the Seismic Performance of Existing Concrete Buildings." Once you purchase these files, you can download and use them indefinitely. Previously, there had been an expiration date

between the time of purchase and the time of download.

Purchasers should keep in mind that a moderately fast internet connection is needed (e.g., a DSL connection) in order to view the videos once downloaded. For \$25 per presentation, EERI members can download the videos from [http://www.eeri.org/cds\\_publications/](http://www.eeri.org/cds_publications/)

[catalog/index.php?cPath=42\\_43\\_44](http://www.eeri.org/catalog/index.php?cPath=42_43_44); for nonmembers, the cost is \$45. For more information about the downloads, visit <http://www.eeri.org/Announcement.pdf>.

EERI plans to expand the availability of video downloads and will be taping presentations at the upcoming geotechnical seminar being held in March (see [https://www.eeri.org/news/meetings/07\\_tech\\_seminar\\_registration.php](https://www.eeri.org/news/meetings/07_tech_seminar_registration.php)).

# Annual Meeting Photos

Photographer: Marshall Lew



Opening session speakers: (l-r) Leonard Joseph, Bob Bachman, Laurie Johnson, Nabih Youssef, and Ed Blakely.



Award recipient S. Chi Liu of NSF.



Representatives of newest EERI student chapters, Anna Olsen of Caltech and Hoda Mostafa of Tufts University.



Friday's banquet speaker, Lucile Jones of the USGS.



EERI President Thalia Anagnos recognized Subscribing Member representatives at Thursday's reception: (Row 1 l-r) J. Osteraas (Exponent), L. Cluff (PG&E), M. Goodson (CH2M Hill), F. Makdisi (Geomatrix), R. Hamburger (SGH), M. Lew (MACTEC), J. Moehle (PEER); (Row 2) R. McGuire (Risk Engineering), B. Holmes (Rutherford & Chekene), M. Bruneau (MCEER), L. Wyllie (Degenkolb), M. Ciudad-Real (Kinematics), P. Stojanovski (RMS), P. Malhotra (FM Global), and S. Jiran (MTS).



Mike Mahoney of FEMA (center) with recent NEHRP graduate fellows Brady Cox of UT Austin (l) and Troy Morgan of UC Berkeley (r).



Scott Ashford of UC San Diego (l) with Oregon State's first-place seismic design team.



President Anagnos with some of the Organizing Committee members: (l-r) Payam Khashaee, Peggy Quijada, Orhan Gurbuz, Bob Bachman (chair), Arzhang Alimoradi, LeVal Lund, and Ron Eguchi.

## News of the Institute

### Treasurer's Report: Fiscal Year 2006

**Membership:** The overall number of EERI members has decreased by 2% over the past year. We urge you all to look around among your colleagues, see who needs to be an EERI member, and encourage them to join us. Fortunately, the number of young professional members has increased, a good sign for the future. The number of subscribing members has also increased, giving the Institute added firepower and credibility.

**Value to Members:** The value of EERI's journal *Earthquake Spectra* constitutes half of the direct benefits of membership, as more than half of annual dues goes toward the cost of publishing *Spectra*. The remainder covers general and administrative costs and member services, including the *EERI Roster*, the *Newsletter*, and special publications like the new monographs and oral histories. Members also benefit from grants provided by FEMA, NSF, and the Endowment Fund. Compared to other associations, EERI members get a big bang for their bucks—more than double what they pay.

**Budgets for 2006 and 2007:** EERI ended 2006 with a surplus, partly because of the success of the 100th Anniversary Earthquake Conference. We give the staff credit for giving 150% effort. Some of the surplus will go into the Endowment Fund. 2007 is projected to end with a slight loss, but the final results may be more favorable. The Endowment Fund's invested income was \$97,000, which brought it back to its previous best condition. EERI is in great financial shape!

We urge you to complete the survey recently e-mailed to members. Given the uncertainty of grant income, it is important for us to know what you want!

*Marshall Lew*  
*EERI Secretary/Treasurer*

## 2006 Summary of Revenues and Expenses

### Association Revenues (\$1,000s)

Meetings	\$2,558
Publications	124
Membership and Spectra Dues	549
G & A	23
Other Programs	55
Grants	511
<b>TOTAL REVENUES</b>	<b>\$ 3,820</b>

### Association Expenses (\$1,000s)

Meetings	\$2,536
Publications	195
Membership and Spectra	387
G & A	55
Other Programs	76
Grants	511
<b>TOTAL EXPENSES</b>	<b>\$3,760</b>
<b>TOTAL REVENUES OVER EXPENSES</b>	<b>\$60</b>

### **Summary of Endowment Fund Balance from Inception to 12/31/06**

Net Revenues (\$1,000s)	\$2,779
Net Expenses (\$1,000s)	\$1,477
<b>TOTAL REVENUES OVER EXPENSES (\$1,000s)</b>	<b>\$1,302</b>

### **2006 Direct Benefits of Membership**

	<b>2006 Expenses (\$1,000s)</b>	<b>Per Member</b>
General Administration	\$ 55	\$ 24
Membership Services	88	39
Newsletter	46	21
<i>Spectra</i> Journal (5 issues)	299	118
Support Programs	77	34
<b>TOTAL</b>	<b>\$565</b>	<b>\$236</b>

### **2006 Indirect Benefits of Membership**

	<b>2006 Expenses (\$1,000s)</b>	<b>Per Member</b>
FEMA	\$ 295	\$131
Learning from EQs (NSF)	369	163
Endowment Fund	83	37
<b>TOTAL</b>	<b>\$747</b>	<b>\$331</b>
<b>TOTAL DIRECT &amp; INDIRECT BENEFITS</b>	<b>\$1,312</b>	<b>\$567</b>

## 2006 Membership Report

<u>Individual Members</u>	2006	2005
Regular Members	1,464	1,512
Student Members	203	295
E-Student Members	174	103
Retired Members	64	64
Honorary Members	26	25
Affiliate Members	54	54
SSA	137	145
Young Professional	201	168
SUBTOTAL	2,323	2,366
<u>Institutional Members</u>		
Gold Subscribing Members	3	3
Silver Subscribing Members	3	
Bronze Subscribing Members	16	6
Subscribing Members	21	23
Institutional Members	30	29
SUBTOTAL	73	61
<b>TOTAL MEMBERSHIP</b>	<b>2,396</b>	<b>2,427</b>

## 2007 Budget for Revenues and Expenses

### Revenues (\$1,000s)

Meetings	\$192
Publications	37
Membership and <i>Spectra</i>	599
Endowment Programs	89
Grants	493
Other Programs	69
G & A	94
<b>TOTAL REVENUES</b>	<b>\$1,573</b>

### Expenses (\$1,000s)

Meetings	\$204
Publications	113
Membership and <i>Spectra</i>	372
Endowment Programs	89
Grants	493
Other Programs	92
G & A	226
<b>TOTAL EXPENSES</b>	<b>\$1,589</b>

**NET REVENUES UNDER EXPENSES** **(\$16)**

## News of the Membership

### McGuire in NAE

Robin McGuire, president of EERI Subscribing Member Risk Engineering, Inc. in Boulder, Colorado, was elected to the National Academy of Engineering in February. It is one of the highest professional distinctions accorded to engineers.

An EERI member since 1975 and a member of the Board of Directors from 1989-1993, McGuire was elected "for advances in engineering applications of probabilistic assessments in earthquakes and other natural hazards." He authored the EERI monograph *Seismic Hazard and Risk Analysis*, published in 2004.

## Job Openings

### NIST Opportunities

The Building and Fire Research Laboratory (BFRL) at NIST in Gaithersburg, Maryland, seeks candidates for staff in the following three areas: (1) **Wind engineering/database assisted design:** Candidates with expertise in wind engineering, fluid mechanics, structural dynamics, nonlinear analyses, numerical modeling, wind loads on structures, statistics/probability/risk analysis, software development. (2) **Multi-hazard failure analysis:** Candidates with expertise in structural mechanics and modeling, finite element analysis, materials behavior and modeling, failure and disaster investigations, failure analysis, and forensic analysis. (3) **Earthquake engineering:** Seismic structural design and analysis, structural dynamics, performance-based engineering, numerical modeling, nonlinear analysis, software development, building performance and design.

The application deadline is March 9, 2007. For application information, visit [http://www.eeri.org/news/career\\_opportunities.html](http://www.eeri.org/news/career_opportunities.html).

## Iwan Receives Medal

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served on the faculty since 1964. He has mentored more than 30 doctoral students who are now in leadership positions in business and educational institutions worldwide.

Iwan's career has spanned the military, business, and academia. His research achievements include the development of methods to represent complex nonlinear structures with simpler linear systems, the development of practical methods for earthquake-resistant design, and the development of simplified methods for the analysis of seismic isolation systems for critical equipment. In 1979 he proposed an earthquake early-warning system for urban regions. He introduced the concept of a "drift demand spectrum" as a means of measuring the damage potential of strong earthquake ground motion, and has worked toward improving both seismic instrument design and the interpretation of data.

His work has made a difference to all earthquake-prone areas of the world. In 1978 he organized an international workshop that led to the worldwide deployment of strong-motion earthquake measurement arrays, resulting eventually in an expanded database for use in research and design. In 1980 he led a team that introduced modern strong-motion earthquake recording instrumentation to China, resulting in the first instrumentally based seismic zoning in that country. During his 13 years on the California Seismic Safety Commission, he served as chair twice, including the challenging period following the 1994 Northridge earthquake. During his tenure, the commission became a recognized leader in seismic safety advocacy, with publications and programs that were used throughout the world. He holds several patents, and is author or coauthor of numerous publications.

## News of the Institute

### Student Travel Scholarships

The following students and one young professional received travel scholarships to help them attend the 2007 EERI Annual Meeting. These scholarships were funded by the Federal Emergency Management Agency.

Zeynep Firat Alemdar,  
University of Kansas  
Adamantia Athanasopoulou,  
University of Michigan  
Leonardo Cano Saldana,  
Univ. of Puerto Rico Mayaguez  
Fabian Consuegra,  
Purdue University  
Seda Dogruel, SUNY Buffalo  
Saeed Fathali, SUNY Buffalo  
Erol Kalkan,  
California Geological Survey  
Dimitrios Konstantinidis,  
UC Berkeley  
Benjamin Kosbab,  
Georgia Inst. of Technology  
Jongwon Lee,  
University of Michigan  
Selina Lee, Cornell University  
Timothy Nelson, Tufts University  
Gokhan Saygili,  
University of Texas, Austin

Professor Iwan is the founding president of the Consortium of Universities for Research in Earthquake Engineering. He is a founding director of the World Seismic Safety Initiative and presently serves on its board. He is president of the International Association for Structural Control and Monitoring, and served as chair of the National Research Council Committee on Hazard Mitigation Engineering.

Iwan has served on several EERI committees, including the Endowment Committee (chair), the Shah Prize Committee, and the Special Projects and Initiatives Committee. He serves on the editorial board of a

R. Shiv Shanker,  
University of Texas, Austin  
Laura Spencer,  
Georgia Inst. of Technology  
Ulises J. Elena Torralba, UNAM  
Soheil Yavari,  
University of British Columbia

## Endowment Fund Donors

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

### \$2,250

KPFF Consulting Engineers

### \$200-\$250

Catherine Bauman  
and Laurence  
Kornfield  
Simpson, Gumpertz,  
& Heger, Inc.  
Weidlinger Associates, Inc.

### \$100-\$199 (con't)

Vsevolod  
Levtchitch  
Ugo Morelli

### Other Amounts

Ted J. Canon  
Robert Y. Chew  
Ronald T. Eguchi  
Ruth V. Gordon  
Edward Leibovich  
Frank J. Linhart  
Loring A. Wyllie

### \$100-\$199

Goutam Bagchi  
James F. Davis  
Mathew Francis

number of international journals and has served on government advisory panels dealing with earthquake safety issues related to offshore oil platforms, nuclear reactors, and other critical facilities. He is the recipient of awards too numerous to mention here.

## 2008 Annual Meeting: New Orleans

Mark your calendar! The 2008 EERI Annual Meeting will be held February 6-9 at the Astor Crowne Plaza Hotel in the French Quarter of New Orleans. Look for more information in future issues of the *Newsletter*.

**PLEASE POST IMMEDIATELY**



**EARTHQUAKE ENGINEERING RESEARCH INSTITUTE  
2007-2008 EERI/FEMA  
GRADUATE FELLOWSHIP IN  
EARTHQUAKE HAZARD REDUCTION**

EERI is pleased to announce the availability of a Graduate Fellowship for the 2007-2008 academic year to support one full-time student in a discipline contributing to the science and practice of earthquake hazard mitigation.

The one-year fellowship, underwritten with funds provided by the Federal Emergency Management Agency, is designed to foster the participation of capable individuals in working toward goals and activities of the National Earthquake Hazards Reduction Program.

**AWARD**

The EERI/FEMA fellowship provides a nine-month stipend of \$12,000 with an additional \$8,000 for tuition, fees, and research expenses.

**CRITERIA**

Applicants must be enrolled in a graduate degree program at an accredited U.S. college or university and must hold U.S. citizenship or permanent resident status. All applications must include an academic transcript and a statement of educational and career goals.

Applications, together with a letter of nomination, shall be submitted to EERI by a faculty sponsor at the host institution. Two additional reference letters should be submitted directly to EERI. They should evaluate the applicant's recent academic performance and the candidate's potential to contribute to the field.

**TO APPLY**

Candidates may download application forms from EERI's web site ([http://www.eeri.org/home/Grad\\_Fell\\_application.pdf](http://www.eeri.org/home/Grad_Fell_application.pdf)), or obtain them upon request from:

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(510) 451-0905      fax: (510) 451-5411      e-mail: [eeeri@eeeri.org](mailto:eeeri@eeeri.org)

**Deadline for receipt of all application materials at EERI is MAY 14, 2007.  
Announcement of the award will be made on JUNE 18, 2007.**

## News of the Institute

# Summary of the Minutes of the Board of Directors Meeting of December 12, 2006

**Call to order:** President Craig Comartin called the meeting to order. Also present were President-Elect Thalia Anagnos, Vice President Farzad Naeim, Secretary-Treasurer Marshall Lew, directors John Aho, Jon Bray, Richard Eisner, Polat Gülkan, and Laurie Johnson, Executive Director Susan Tubbesing, and Publications Manager Eloise Gilland.

**President's Report:** FEMA has selected the Applied Technology Council to prepare a multiyear plan to identify the management structure, resources, and major milestones required to produce new guidance documents for existing buildings (ATC 71.) To assist FEMA and ATC, EERI has proposed the establishment of a small planning group to develop and synthesize key issues for the ATC project. The group will formulate an agenda for a small, invitational workshop to be held during 2007. After the workshop, the planning group will produce a document summarizing the issues for consideration in ATC 71.

When NSF funding for the three earthquake research centers comes to an end in 2008, there will be no program to support multidisciplinary research in earthquake engineering. EERI has written a proposal to hold a workshop that would bring together leading members of the earthquake engineering and hazards research communities to determine how best to ensure that a multidisciplinary approach to solving challenges posed by risks is not lost when center funding ends.

**NEES Collaboration:** EERI is sharing *Newsletter* reconnaissance reports with NEESit, which will ar-

chive them and make them searchable as part of the NEES repository.

### **Secretary-Treasurer's Report:**

Lew reviewed the Report of Revenue and Expenses as of November 30, 2006. There has been an excess of \$170,641 of revenue over expenses. He projects that by the end of 2006, there will be approximately \$100,000 in excess revenue, half of that derived from the 100<sup>th</sup> Anniversary Conference. For 2007, the staff cost-of-living adjustment will be 3%.

The combined balance sheet shows that EERI's total liabilities of \$408,239 combined with the total fund balance of \$320,716 equaled \$728,955. The Endowment Fund's opening balance of \$750,028 was augmented by \$73,063 in excess revenue over expenses, for a total fund balance of \$823,091, which combined with its total liabilities of \$433,696 equaled \$1,256,787. The balance of the combined association, endowment, and technical programs equaled \$1,985,742.

The Board reviewed the reports of the various investment accounts with RBC Dain Rauscher. Lew pointed out that the Endowment Fund has achieved a good return in 2006. The Friedman and Shah Family Innovation Prize funds are invested more conservatively and have grown by \$9,041 and \$6,559 so far in 2006, respectively. A minimum of 4% of the Shah Prize fund must be spent each year on the prize. Lew reported that there is a good rate of renewals for both regular and subscribing members, and a good rate of retention for new 2006 members.

The Board discussed what to do with the anticipated excess revenue. The 2007 budget currently projects a deficit. Lew recommended putting \$35,000 into the Endowment Fund and applying the balance to the 2007 budget. Moving money into the Endowment Fund is a commitment not to spend it. A motion by Lew to put \$35,000 into the Endowment

Fund was seconded and passed unanimously, with one abstention.

**Annual insurance review:** According to the 2006 Insurance Recap, the cost of insurance for commercial, umbrella, worker's compensation, and professional association coverages went up by 9% in 2006, for a total of \$15,323, compared to \$14,091 for 2005. Lew indicated that maintaining the same insurance coverage will cost \$700 to \$800 more in 2007. Some of these coverages are required by the hotels that EERI uses for meetings. A motion by Naeim to approve the insurance package was seconded and passed unanimously.

### **Executive Director's Report:**

Tubbesing reported that northern California EERI members participated in the Golden Guardian exercise, based on a repeat of the 1906 earthquake on the San Andreas fault. EERI and other organizations in the California Post-Earthquake Information Clearinghouse tested clearinghouse procedures. EERI tested the ability of investigators to upload geo-referenced photos and captions from the field directly to the web, enabling immediate display of the images in Google Map, and downloading them into Google Earth.

Tubbesing was pleased to note that there has been a significant increase in donations to the Endowment Fund in 2006: 113 donations this year totaling \$45,000, compared to 86 donations last year totaling \$20,000. Several members have indicated that they have included EERI in their wills. The establishment of a "Legacy Club" is being considered.

### **Honors Committee Nominations:**

The board approved a motion to accept the Honors Committee nominees Eric Elsesser as Distinguished Lecturer, Bill Iwan as Housner Medal recipient, and F. Robert Preece and William Holmes as Honorary Members.

The Board approved a motion by Gülkan to approve the Honor's Committee recommendation for a new "Special Recognition Award" to be presented to an individual, company, or organization that has made substantial contributions to the field of seismic safety and earthquake risk reduction, having directly affected the seismic safety of the general population. The Board accepted the Honor's Committee nominees Bill Anderson and Chi Liu to receive the first Special Recognition Awards.

### Special Projects and Initiatives

**(SPI) Committee:** Lew reported that the New Madrid Chapter has requested funding to organize a workshop to develop a scenario for the New Madrid region. This scenario would be a joint effort including USGS, CUSEC, the MAE Center, and others. The amount of \$4,000 would permit the chapter to invite individuals who have been instrumental in developing scenarios in other parts of the country to a workshop in St. Louis. The Board unanimously approved this funding.

The Board approved a request from Sudhir Jain in India for funding to help start a journal for developing countries that would reprint with permission articles from earthquake engineering journals. The journal would be disseminated at a modest subscription price to professionals in developing countries who cannot afford to subscribe to the journals. The Board approved an amount of \$10,000 (\$5K a year for two years) as seed money for initial printing and mailing costs, with the goal that the money help leverage contributions from other organizations.

An amount of \$10,000 was approved to support the final World Housing Encyclopedia web site development and continue modest support for the small grants program.

The Board asked for more information from the Northern California Chapter to clarify their request of

\$8,000 for a PDA-based project to develop a soft-story building inventory for the city of San Francisco.

The Board approved a request by Sudhir Jain to reprint the 1982 monograph *Earthquake Design Criteria* by Housner and Jennings for distribution on the Indian subcontinent.

**Publications Sales Report:** Tubbesing pointed out that although publication sales are 8% higher this year than last year at this time, libraries are not buying conference proceedings as they have in the past. Eisner reminded the Board that thousands of people who attended the 100th Anniversary Conference received the proceedings, further cutting into potential sales.

Tubbesing indicated that the Membership Report shows a continuing decline in Regular Members, a reflection of EERI's aging membership, but that the Young Professional category has increased significantly.

**Spectra editor search:** The Board is seeking a replacement for Editor Naeim. He emphasized the importance of maintaining the high quality of the journal and the need to balance the practical with the theoretical. Ideally the next editor can be identified so there is a period of overlap before Naeim steps down at the end of 2007.

**Action Items:** Tubbesing noted that John Aho obtained a resolution from the State of Alaska Seismic Safety Commission requesting that Anchorage be selected as the site of the 10<sup>th</sup> National Conference on Earthquake Engineering in 2014, to commemorate the 50<sup>th</sup> Anniversary of the 1964 Alaska quake.

### Younger members program:

Younger Members Committee chair Arzhang Alimoradi joined the meeting by speakerphone and reviewed his committee's social and technical plan of action for 2007-2010. He has sent letters to 56 younger EERI members about the committee. Eighteen have agreed to help for three years. Alimoradi went over

several ideas for technical projects that would encourage a spirit of active involvement in EERI. Board members offered to work with the committee to help focus on a couple of the ideas. The Board will push to get younger professionals to participate in the Meet the Mentors Reception at the Annual Meeting. Comartin will identify a Board contact and advisor to attend the committee's meeting in LA. Lew promised that the Southern California chapter will work with the committee to create a seminar on "GIS for Dummies."

Comartin remarked that this is his last Board meeting as president. He has mixed emotions, acknowledging that much has been accomplished, but also that there's still so much more to do. He praised the Board for making the meetings enjoyable and said it was a pleasure to work with people who enjoy what they're doing. He thanked outgoing directors John Aho and Farzad Naeim for their steady contributions and hard work for three years. The Board in turn expressed appreciation to him for the time and effort he has devoted to EERI.

The meeting was adjourned at 4:58 p.m.

## New EERI Student Chapter at Caltech

EERI is pleased to announce the formation of a new EERI student chapter at the California Institute of Technology in Pasadena. The current research areas of Caltech students include seismic early warning, system identification, structural health monitoring, structural control, and the seismic response and risk reduction of tall buildings. The chapter's faculty advisor is Jim Beck, professor of engineering and applied science. The professional contact is an alumnus of Caltech: Anders Carlson of Gilsanz Murray Steficek.

## Announcement

### Nat'l EQ Conference

Save the date for the NEHRP-sponsored National Earthquake Conference (NEC), to be held in Seattle, April 22-26, 2008. Organized by FEMA, USGS, NIST, and NSF, this broad, multidisciplinary conference, with the theme "Understanding Earthquakes: From Research to Resilience," is held every three or four years. The last NEC was in St. Louis in 2004. EERI, along with several other organizations, is involved in the planning effort. The conference has five goals: (1) to develop a shared understanding of scientific, engineering, and social research; (2) to exchange ideas about tools for earthquake hazard and risk reduction; (3) to showcase successful programs; (4) to learn from past disasters; and (5) to build resiliency.

To see the first announcement, visit <http://www.eeri.org/savethedatePS.pdf>. The conference web site is <http://www.earthquakeconference.org/>.

## Job Opening

### NSF Position

The National Science Foundation is seeking an Assistant Director of NSF for Geosciences. The Assistant Director manages a directorate comprised of three divisions—Atmospheric Sciences, Earth Sciences, and Ocean Sciences—and also provides leadership and guidance to multiple international and interagency programs in the geosciences. Candidates are sought with leadership qualifications, scholarship, a grasp of the issues facing research and education in the geosciences, and the ability to serve effectively as a key member of the NSF policy and management team.

For application information, visit [www.eeri.org/news/career\\_opportunities.html](http://www.eeri.org/news/career_opportunities.html). The deadline is March 31, 2007.

## Calls for Abstracts

### 2ICUDR in 2007

The deadline for abstract submission is March 31, 2007, for the 2nd International Conference on Urban Disaster Reduction (ICUDR), co-sponsored by EERI and the Japan Institute of Social Safety Science. The conference will be held November 27-29, 2007, in Taipei, Taiwan. The main theme is "Large-Scale Disaster Management."

For more information and a detailed list of suggested topics, see page 6 of the July *EERI Newsletter* or visit <http://www.ncdr.nat.gov.tw/2ICUDR>.

### Geodesy and Geophysics Assembly

The XXIV General Assembly of the International Union of Geodesy and Geophysics will be held in Perugia, Italy, July 2-13, 2007. For the most recent announcement and program, visit [www.iugg2007perugia.it](http://www.iugg2007perugia.it). The abstract submission deadline is February 28, 2007.

Of particular interest to EERI members are sessions on tsunami generation and early-warning systems. Part of the tsunami session will be carried out as a workshop on wave and water level data assessment and product development, with the goal of establishing standard procedures for data assessment and data archiving for event analysis.

### Masonry Conference

The 14th International Brick and Block Masonry Conference, with the theme "Masonry at the Crossroads," incorporating the 8th Australasian Masonry Conference, will be held in Sydney, Australia, February 17-20, 2008. Abstracts are due on March 1, 2007.

For information about topics and abstract submission, visit <http://www.ibmac.org/>.

## Turkish Conference

The 6th Turkish National Conference on Earthquake Engineering will be held October 16-20, 2007, in Istanbul. To see the first announcement, in English, visit <http://www.6udmk.org.tr/6UDMK.ENG.DOC>. March 30, 2007, is the deadline for abstract submission.

For submission information, contact Professor Atilla Ansal at [ansal@boun.edu.tr](mailto:ansal@boun.edu.tr).

## CALENDAR

Items that have appeared previously are severely abbreviated. The issue containing the first appearance, or the most informative, is indicated at the entry's end. Items listed for the first time are shown in **bold**.

### MARCH

12. EERI Seminar for Structural and Geotechnical Engineers on Practical Applications to Shallow Foundations, Seattle, WA. Info: [www.eeri.org](http://www.eeri.org) (12/06)

14. EERI Seminar for Structural and Geotechnical Engineers on Practical Applications to Shallow Foundations, Los Angeles, CA. Info: [www.eeri.org](http://www.eeri.org) (12/06)

16. Khan Lecture Series, Bethlehem, PA. Info: [www.lehigh.edu/frkseries](http://www.lehigh.edu/frkseries) (2/07)

21. EERI Seminar for Structural and Geotechnical Engineers on Practical Applications to Shallow Foundations, San Francisco, CA. Info: [www.eeri.org](http://www.eeri.org) (12/06)

25-28. Ports 2007, San Diego, CA. Info: [www.portsconference.org](http://www.portsconference.org) (6/06)

30-April 1. New Zealand Society for Earthquake Engineering Annual Conf., Palmerston North, NZ. Info: <http://www.nzsee.org.nz/EVENTS/tcon07.shtml> (11/06)

**APRIL**

15-20. 3rd General Assembly of European Geosciences Union, Vienna, Austria. Info: [www.copernicus.org/EGU/meeting\\_overview.html](http://www.copernicus.org/EGU/meeting_overview.html) (1/07)

20. Khan Lecture Series, Bethlehem, PA. Info: [www.lehigh.edu/frk-series](http://www.lehigh.edu/frk-series) (2/07)

26-27. International Symposium on Seismic Risk Reduction, Bucharest, Romania. Info: <http://cnrrs.utcb.ro/issrr2007/issrr2007.html> (12/06)

30-May 2. 2nd International Modal Analysis Conf., Copenhagen, Denmark. Info: [www.iomac.dk](http://www.iomac.dk) (10/06)

30-May 4. Short Course on Grouting Fundamentals and Current Practice, Golden, CO. Info: [www.mines.edu/outreach/cont\\_ed/grouting/grouting1.html](http://www.mines.edu/outreach/cont_ed/grouting/grouting1.html) (1/07)

**MAY**

13-20. Coastal Sediments 07, New Orleans, LA. Info: [www.asce.org/conferences/cs07/abstract.cfm](http://www.asce.org/conferences/cs07/abstract.cfm) (5/06)

14-16. SEE5 on Earthquake Risk Reduction in Developing Countries, Tehran, Iran. Info: [www.iiees.ac.ir/SEE5](http://www.iiees.ac.ir/SEE5) (7/06)

14-17. Workshop on the Physics of Tsunami Hazard Assessment Methods and Disaster Risk Management, Trieste, Italy. Info: <http://agenda/ictp.it/smr.php?1839> (2/07)

28-31. 10th World Conf. on Seismic Isolation, Energy Dissipation, & Active Vibration Control of Structures, Istanbul, Turkey. Info: [www.did-tasi.org/seminar/default.asp](http://www.did-tasi.org/seminar/default.asp) (12/06)

**JUNE**

3-6. 10th North American Masonry Conf., University of Missouri at Rolla. Info: <http://www.masonrysociety.org/NAMC/index.html> (3/06)

4-6. 24th International Bridge Conf., Pittsburgh, PA. Info: [www.eswp.com/bridge](http://www.eswp.com/bridge) (11/06)

13-15. COMPdyn 2007 Conf., Rethymno, Crete, Greece. Info:

<http://www.eng.ucy.ac.cy/comp-dyn2007> (8/06)

19-21. NEES Annual Meeting, Snowbird, UT. Info: [www.nees.org/About\\_NEES/Announcements/announcement.php?news\\_id=41](http://www.nees.org/About_NEES/Announcements/announcement.php?news_id=41) (9/06, 1/07)

25-27. ENHR Conference on Sustainable Urban Areas, Rotterdam, The Netherlands. Info: [www.enhr-2007rotterdam.nl](http://www.enhr-2007rotterdam.nl) (2/07)

25-28. 4th International Conference on Earthquake Geotechnical Engineering (4ICEGE), Thessaloniki, Greece. Info: [www.4icege.org](http://www.4icege.org) (2/06)

26-29. 9th Canadian Conference on Earthquake Engineering (9CCEE), Ottawa, Canada. Info: [www.9ccee.ca](http://www.9ccee.ca) (2/06)

**JULY**

2-13. International Union of Geodesy and Geophysics General Assembly, Perugia, Italy. See page 10. (3/07)

8-11. 17th World Conference on Disaster Management, Toronto, Ont., Canada. Info: <http://www.wcdm.org/> (11/06)

**AUGUST**

20-22. 1st International Workshop on Performance, Protection, and Strengthening of Structures under Extreme Loading (Protect 2007), Whistler, BC, Canada. Info: [www.civil.ubc.ca/protect2007/](http://www.civil.ubc.ca/protect2007/) (12/06)

**SEPTEMBER**

3-7. International Conference on Engineering Education (ICEE-2007), Coimbra, Portugal. Info: [www.ineer.org/Events/ICEE2007Info/Welcome.htm](http://www.ineer.org/Events/ICEE2007Info/Welcome.htm) (1/07)

26-29. SEAOC 2007 Convention, Lake Tahoe, CA. Info: [www.seaocc.org/2007convention](http://www.seaocc.org/2007convention) (2/07)

**OCTOBER**

1-13. Ninth Workshop on Nonlinear Dynamics and Earthquake Prediction, Trieste, Italy. Info: <http://agenda/ictp.it/smr.php?1864> (2/07)

8-11. Modern Trends in Structural Engineering for Seismic Design, Ariel, Israel. Info: [ribakov@yosh.ac.il](mailto:ribakov@yosh.ac.il) (8/06)

11-13. Deep Foundations Institute 2007 Annual Conf., Colorado Springs, CO. Info: [www.dfi.org/conferencedetail.asp?id=80](http://www.dfi.org/conferencedetail.asp?id=80). (12/06)

16-20. 6th Turkish National Conference on EQ Engineering, Istanbul. See page 10. (3/07)

**NOVEMBER**

27-29. 2nd International Conference on Urban Disaster Reduction (ICUDR), Taipei, Taiwan. Info: <http://www.ncdr.nat.gov.tw/2ICUDR> (10/06)

**DECEMBER**

5-7. 8th Pacific Conference on Earthquake Engineering, Singapore. Info: [www.ntu.edu.sg/cee/8PCEE/](http://www.ntu.edu.sg/cee/8PCEE/) (2/07)

**2008****FEBRUARY**

6-9. EERI Annual Meeting, Astor Crowne Plaza Hotel, French Quarter, New Orleans, LA. See page 6. (2/07, 3/07)

17-20. 14th Int'l Brick and Block Masonry Conference, Sydney, Australia. See page 10. (3/07)

**APRIL**

22-26. 2008 National Earthquake Conference, Seattle, WA. See page 10. (3/07)

**MAY**

18-22. Geotechnical Earthquake Engineering and Soil Dynamics Conf. IV, Sacramento, CA. Info: [www.geesd.org](http://www.geesd.org) (10/06)

**AUGUST**

11-16. 6th International Conf. on Case Histories in Geotechnical Engineering (6ICCHGE), Washington, D.C. Info: <http://www.6icchge2008.org> (4/06, 9/06, 2/07)

**OCTOBER**

12-17. 14th World Conference on EQ Engineering, Beijing, China. Info: [www.14wcee.org](http://www.14wcee.org) (12/05)

## NEES News

### The NEESWood Project

Welcome to the first column from NEES News! On a regular basis, this column will feature recent experimental research results and other developments from the Network for Earthquake Engineering Simulation (NEES), an NSF-funded shared national network of 15 experimental facilities dedicated to advancing the understanding of how earthquakes and tsunamis affect the built environment. In addition to experimental sites, NEES includes NEESit, an IT infrastructure that allows researchers to observe remotely and participate in NEES experiments, a data repository, and computational simulation resources.

NEESWood is a four-year, five-university project entitled "Development of a Performance-Based Seismic Design (PBSD) Philosophy for Mid-Rise Woodframe Construction." In November, the world's largest woodframe shake table test was conducted at the NEES@Buffalo facility on a 40-ton two-story 1,800-sq.-ft. townhouse spanning two adjacent 3-D shake tables. The building was subjected to the 1994 Northridge earthquake (Rinaldi record) with a peak spectral acceleration of 0.9g. Test videos and photos are available at <http://nees.buffalo.edu/projects/NEESWood/video.asp>. Planning has begun for the testing of a full-scale six-story woodframe condominium on the



*The townhouse building spanning the two 3-D shake tables at the University at Buffalo NEES facility prior to undergoing the 3-D Northridge ground motion.*

E-Defense shake table in Japan to validate the PBSD philosophy that is being developed. More detail is available at <http://www.engr.colostate.edu/NEESWood/>.

### Woodframe Seismic Design Webinar

EERI has teamed together with NEES to present "The NEESWood Project: Performance-Based Seismic Designs for Mid-Rise Woodframe Construction," an interactive online "webinar" at noon on Wednesday, April 4.

Join us to discover the implications of new research on mid-rise woodframe buildings in seismic regions, including (1) what happened when a two-story townhouse, mounted on twin shake tables, was subjected

to earthquake simulations; (2) how new earthquake engineering analysis software will influence earthquake damage evaluation; (3) what types of performance-based seismic designs are proving effective for woodframe buildings; and (4) next steps for research, including six-story building shake table tests.

Each topic will be presented from the research angle by John W. Van de Lindt of Colorado State University, and then Kelly Cobeen of Co-

been & Associates will address how each topic and the project as a whole may influence earthquake engineering practice.

You can participate in the session live via WebEx for free, download it later, or, for \$25, participate in person in Davis, California. Watch it with colleagues as a professional development opportunity, or to get discussion rolling on immediate applications of this information!

To register, visit <http://www.nees.org/ebrownbag/>.



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