EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

NEWSLETTER

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Announcements

Special Theme Issue of *Spectra*

A special issue of *Earthquake Spectra* on the theme "Design, Evaluation, Upgrade and Repair of Steel Moment-Frame Buildings" is planned for publication in early 2002.

The issue will feature major results from the SAC research program funded by FEMA and administered by the Structural Engineers' Association of California, the Applied Technology Council, and California Universities for Research in Earthquake Engineering. However, other authors are encouraged to submit abstracts for papers dealing with this theme. All abstracts will be given equal consideration.

One-page abstracts should be submitted to EERI by March 16, 2001. Notification of acceptance will be completed by April 13, 2001.

News of the Institute

Election Results: Alcocer and Nikolic-Brzev Elected to Board of Directors, Articles of Incorporation Amended

Sergio Alcocer

Svetlana Brzev

Sergio Alcocer, Director for Research at the National Center for Disaster Prevention (CENAPRED) of the Mexican Government and Research Professor at the Institute of Engineering of the National University of Mexico, and **Svetlana Brzev**, Instructor at the British Columbia Institute of Technology in Burnaby, British Columbia, Canada, were elected the newest members of the EERI Board of Directors in the 2001 election.

Many thanks go to the members of this year's Tellers Committee: Richard Eisner of the California Governor's Office of Emergency Services; Eduardo Fierro of Wiss, Janney, Elstner Associates, Inc.; and Dante Legaspi, Jr., of Geomatrix Consultants, Inc.

Alcocer and Brzev will be formally welcomed to their new posts at the Board Meeting in Monterey on February 7. They will each serve three years as directors, replacing Norman Abrahamson and Thomas O'Rourke, whose terms have expired. EERI extends thanks to Abrahamson and O'Rourke for their years of outstanding service and dedication to the Institute. Another significant transition will be the installation of Chris Poland, President of Degenkolb Engineers in San Francisco, as EERI President. Outgoing President Chris Arnold, President of Building Systems Development in Palo Alto, California, will continue to serve on the Board for one year as Past President.

In addition to the election of directors, members also passed a proposed amendment to Article VI of the Institute's Articles of Incorporation, to ensure that EERI, if it ever faces dissolution, will be exempt from personal property taxes.

It is not too early to start thinking about next year's election of a president-elect and directors. The Nominating Committee welcomes suggestions from the membership, including self-nominations. Nominees for president-elect must have previously served on the Board. Nominees for director must have been active (or honorary) members of EERI for at least five years, and must not have been nominated to the Board in the last two years. To submit a name for consideration, send a brief note giving the name and qualifications of the potential candidate to the Nominating Committee in care of the EERI office. All submissions are confidential.

National Earthquake Hazards Reduction Program

News of the Profession

USGS and FEMA Partner to Reduce Nation's Natural Disasters

The U.S. Geological Survey (USGS) and the Federal Emergency Management Agency (FEMA) recently signed an agreement to facilitate partnership activities for Project Impact: Building Disaster-Resistant Communities, a major natural-disaster initiative.

The partnership will promote federal efforts to improve disaster recovery and mitigation in communities throughout the United States. Under the new agreement signed by USGS Director Chip Groat and FEMA Associate Director of Mitigation Michael Armstrong, the USGS and FEMA will apply science to improve the understanding of and preparation for the natural events that cause disasters.

"This agreement formalizes the strong working relationship that has existed between the USGS and FEMA since FEMA was created more than 20 years ago, and has grown stronger in recent years," said Groat. "The USGS will provide FEMA with crucial earth science information on natural hazards including earthquakes, floods, volcanoes, wildland fires, and landslides — information that is urgently needed to reduce the nation's vulnerability to natural disasters."

"I am extremely happy to have the USGS as a Project Impact partner," said Armstrong. "This partnership will enhance and increase the innovative means Project Impact partners have developed over the years to make communities across America more disaster-resistant."

Announcements

USGS Natural Hazards Conference

The 2001 USGS Natural Hazards Conference for the San Francisco Bay Area will be held on February 21st, 2001, at the USGS facility in Menlo Park, California. Earthquakes, landslides, floods, coastal erosion, and suburban wildfires are topics scheduled for discussion.

This event is designed to present current scientific research information to regional disaster preparedness planners, emergency services officials, and safety officers from city and county government offices, and from the corporate and academic communities in the San Francisco Bay Area.

Attendees will learn about the science of local and regional natural hazards and how USGS scientists are studying them to help minimize the effects of future natural disasters.

Conference exhibits will feature information about resources available from Bay Area government agencies and organizations, and how real-time data can be accessed through USGS web sites and applied to mitigate the effects of natural disasters in the San Francisco Bay Area.

The 2001 USGS Natural Hazards Conference announcement, the preliminary conference program of scheduled speakers and events, the online registration form, and directions to the USGS Menlo Park facility are available at the web site **geonotes. wr.usgs.gov/hazardconf/ conference. html**.

For more information, contact William Rambo, Natural Hazards Conference Coordinator, by phone: 650/329-5104, or e-mail: **wrambo@usgs.gov**.

*Editor's Note: Most of the following is taken from an article provided by EERI member Robert A. Olson. The full text of his article can be found on the EERI website at **www.eeri.org**.*

Obituary

Alan Cranston

Alan Cranston, former U.S. Senator of California, died on December 31, 2000, at the age of 86.

During his more than two decades in the Senate, Cranston compiled a legacy of legislation on civil rights, environmental protection, economic development, and other high-priority domestic issues. The earthquake engineering community remembers Cranston for his work leading to the formation of what is now known as the National Earthquake Hazards Reduction Program.

Following the 1971 San Fernando earthquake, Senator Cranston began introducing bills to expand the nation's support for earthquake research. He recruited Representative George Brown, a respected member of the House Science and Technology Committee from California's earthquake-prone San Bernardino-Riverside area, to help get the legislation through Congress.

The bills initially focused on prediction but, as the years went by and the bills did not pass, their proposed scope was broadened. From 1971 to 1977, earthquake engineering research was added, an interagency management and coordination structure was proposed, social science research was recognized, and other elements were included in drafts and actual bills.

Finally after five years of effort,

Congress passed the bill, and in October 1977, President Carter signed the first major national earthquake policy legislation, the Earthquake Hazards Reduction Act of 1977 (Public Law 95-124), providing the foundation for the National Earthquake Hazards Reduction Program.

Publications

Adobe Structures

The final report of the Getty Seismic Adobe Project, *Seismic Stabilization of Historic Adobe Structures*, has recently been published. The report is authored by E. Leroy Tolles, Edna Kimbro, EERI member Frederick Webster, and William Ginell.

It describes tests performed on model adobe buildings to evaluate seismic damage mitigation techniques for retrofitting historic and culturally significant adobe structures.

Part of the Getty Seismic Adobe Project, the three-year program outlined in this volume was designed to develop and test minimally invasive, inexpensive, and easily implemented methods for protecting such structures from severe earthquake damage.

Small- and large-scale models were tested on computer-controlled shaking tables at Stanford University and at the IIZIS Earthquake Engineering Laboratory in the Republic of Macedonia, respectively. The authors identify typical failure modes and describe specific retrofit techniques to help minimize such failures.

The book is available for $40 plus tax and shipping from the Getty Publications Distribution Center, P.O. Box 49659, Los Angeles, CA 90049-0659; fax: 818/779-0051; phone: 800/223-3431.

News of the Institute

New Subscribing Members for the Year 2000

EERI is pleased to welcome the following new Subscribing Members for the year 2000. They are among the select group of organizations that make an exceptional financial commitment in order to support earthquake engineering and EERI's mission and goals. Profiles of each of these organizations will appear in the *Newsletter* throughout the year 2001.

AMEC Earth & Environmental, Inc., Phoenix, Arizona

Earthquake Engineering Center Southeastern US, Blacksburg, Virginia

EBAA Iron Sales, Inc., Rohnert Park, California

K2 Technologies, Inc., San Jose, California

Refraction Technology, Inc., Dallas, Texas

S.K. Ghosh Associates, Inc., Northbrook, Illinois

Skellerup-Oiles Seismic Protection, Poway, California

U.S. Army Construction Engineering Research Laboratories, Champaign, Illinois

EERI Joins COSMOS

At its December 5, 2000, meeting, the EERI Board voted that EERI become an institutional member of the Consortium of Organizations for Strong-Motion Observation Systems (COSMOS), and agreed to an annual contribution of up to $5,000.

The COSMOS mission to improve the effectiveness of strong-motion data in order to increase public safety is consistent with EERI's mission to reduce earthquake risk. One of the major objectives of COSMOS is to promote the advancement of strong-motion measurement in densely urbanized areas and other locations of special significance to a society likely to be struck by future earthquakes.

COSMOS is focused on operating a large and high-quality strong-motion database and providing the data in a useable format to a diverse engineering and public safety population. Strong-motion data are available free at the COSMOS website at **www.cosmos-eq.org**.

The procedure for obtaining data is straightforward, using search or advanced search options, or a map on which to click for specific earthquakes or stations. The search option can be used for specific earthquakes or stations, or general range queries on parameters such as earthquake magnitude or PGA ranges. The advanced search option has many more search parameters, including response spectra at 0.1, 0.3, 1, and 3 second periods (5% damping). Subsequent fact sheets show information about the earthquake, instrument components, and station site descriptions. Time histories can be viewed before downloading the data. Data are added to a "download bin," similar to the "shopping-cart" method on many commercial websites.

Membership in COSMOS is open to all agencies, organizations, private companies, consultants, professional institutions, professional societies, and universities. Individual membership is $50.

An update of the COSMOS database will be presented at the Strong-Motion Instrumentation Committee meeting during EERI's February 2001 Annual Meeting. This committee meeting is open to all Annual Meeting attendees. Please contact Marcia McLaren (**mkm2@pge.com**) for further information.

News of the Institute

Annual Meeting Travel Grant Recipients

With support from FEMA, several travel grants have been awarded to encourage student members and younger EERI members (out of school no more than three years) to attend this year's Annual Meeting in Monterey. This financial support was contingent upon participation in the student paper competition or the poster sessions, either through the applicant's own research project, or as a representative of a student chapter whose poster depicts the chapter's activities. The travel grant recipients are as follows:

Burcu Burak, University of Michigan
Lyle Carden, University of Nevada, Reno*
Gregory Cohen, University of Texas, Austin
Peter Dusicka, University of Nevada, Reno*
Diego Lopez Garcia, SUNY Buffalo**
Francisco Garcia, University of Nevada, Reno*
Thomas Pfeifer, Georgia Institute of Technology
Claudia Pulido, University of Nevada, Reno*
Richard T. Ranf, Washington University, St. Louis**
Ali Rejaie, University of Southern California
Mohammed-Kazem Sharbatar, University of Ottawa
Brenda Shonkwiler, Oregon State University
Can Simsir, University of Illinois at Urbana-Champaign
Christine Uy, Cornell University

* Four UNR students are sharing one grant.
**Student paper competition authors

Subscribing Member News

Refraction Technology, Inc.

Refraction Technology, Inc., also known as REF TEK, joined EERI as a Subscribing Member in September 2000.

REF TEK was founded in 1975 to produce quality products, filling specific niches for the land, marine, and oil exploration markets. In 1983 REF TEK supplied the first digital telemetry system in the United States for the University of California at San Diego.

REF TEK has also delivered 500 digital acquisition stations to IRIS (Incorporated Research Institutions for Seismology) as part of their Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL). These stations are portable instruments recording reflection and refraction passive broadband data for studies of the earth's crust down to the mantle. About 30% of all Global Seismological Network (GSN) stations use instruments supplied by REF TEK.

REF TEK instruments are used not only in imaging studies, but also in earthquake research (aftershock studies and regional seismicity surveys). The company produces advanced regional telemetry systems using radio, telephone, and satellite communications. REF TEK recorders and telemetry systems are currently in use in more than 30 countries worldwide. REF TEK continues to expand its products and capabilities as the technology improves and the needs of IRIS/PASSCAL and others in the seismological community change and grow.

For more information, see REF TEK's web site at **www.reftek.com**.

Announcements

Nominations Solicited for Prakash Research Award

The Shamsher Prakash Foundation is soliciting nominations for the 2001 Shamsher Prakash Research Award for young (born on or after May 31, 1961) engineers, scientists, and researchers.

The candidate should be a specialist in geotechnical engineering or geotechnical earthquake engineering, who has shown significant independent contribution and promise of excellence.

The award consists of a cash prize of $1,001 and a plaque, and is open to candidates from all countries. All nominations will be reviewed by a Judging Committee of international experts. The award will be announced on September 30, 2001.

For information on the contents of the nomination package, contact Sally Prakash, Shamsher Prakash Foundation, Anand Kutir, 1111 Duane Ave., Rolla, MO 65401; fax: 573/364-5572; e-mail: **sallyp@umr.edu**.

Publications

Risk 2000 Proceedings Available: *Risk Analysis II*

The second international conference in the series "RISK 2000" was recently held in Bologna, Italy. The meeting covered the different aspects of risk analysis and hazard mitigation, ranging from specific assessment of risk to mitigation associated with both natural and man-made hazards.

Other topics included strategic issues of sustainable development, efficient use of resources, energy economics, and education.

The Conference Proceedings, titled *Risk Analysis II*, are now available from WIT Press. The volume contains papers from more than 25 countries in the following topics: hazard prevention, management and control; estimation of risks; emergency response; data collection and analysis; hazardous materials in transit; water resources modelling and management; landslides; earthquakes; soil and water contamination; air quality studies; and case studies.

For more information, contact: **marketing@witpress.com**.

New Code for Steel Buildings and Bridges

The American Institute of Steel Construction, Inc. (AISC) brought together a full design and construction team to revise its *Code of Standard Practice for Steel Buildings and Bridges*.

Structural engineers, architects, fabricators, steel erectors, a general contractor, a steel detailer, and an attorney partnered to make this new *Code* a reality. With representation of the entire steel design community and construction industry, the *Code* is a useful document for all concerned with the buying and selling of fabricated structural steel. The fifth complete revision since it was first published in 1924, it reflects new and changing technology and industry practices.

It is available as a free download from the AISC web site at **www.aisc.org/code.html**. Also available at that link is an article that summarizes the major changes and revisions made in the 2000 edition of the *Code*.

It is also available as a printed (paper) document for $20 ($30 for nonmembers) plus shipping and handling from the AISC bookstore at **www.aisc.org**.

News of the Institute

The Future of EERI: New Strategic Plan

The EERI Board of Directors met in December 2000 to look at EERI's accomplishments over the past half-century as a leader in the earthquake field, and at the areas in which EERI has opportunities to be more effective. They developed a new vision and role for EERI. The *Strategic Plan*, a statement of future possibilities, grew out of their discussions. It lays out the goals, objectives, and strategies that will define the path EERI will take over the next five years and beyond to achieve its new vision of creating a world in which potential earthquake losses are understood and steps have been taken to reduce them to an acceptable level.

The plan defines EERI's new role as the authoritative source for earthquake risk reduction information in the United States and in partnership with other nations to develop earthquake risk reduction information worldwide. The plan recognizes not only the need to continue to champion research and the development of programs for the professional engineering community, but also the need to reach policy makers, the media, and the general public at the regional, national, and international levels to achieve a safer world. The plan sets out a number of new objectives for EERI, including the following:

- increasing activism at the local level through an expanded network of regional chapters;
- establishing a certificate program in earthquake engineering;
- reaching the general public and media with information on earthquake risk reduction;
- developing a plan for the use of electronic information to support the education and training of professionals throughout the world;
- obtaining foundation support to enhance professional capacity building in the earthquake engineering field.

Essential to the new plan are the following goals:

- *Goal 1:* To strengthen EERI's role as the primary advocate of earthquake safety and risk reduction.
- *Goal 2:* To identify and support seismic advocates at all levels of society and in all disciplines.
- *Goal 3:* To galvanize a cadre of seismic-risk-reduction experts with lessons that are learned from earthquakes.
- *Goal 4:* To generate government support for all forms of pre-earthquake and postearthquake mitigation.
- *Goal 5:* To achieve financial independence.

For more information on the Strategic Plan's background, major issues affecting its priorities, and details of activities, objectives, and strategies related to each goal, check EERI's web site: **www.eeri.org**. To obtain a hard copy of the plan, contact the EERI office. The Board of Directors invites members to contact them with comments about the plan.

News of the Profession

Job Opportunities

URS Corporation, Pasadena, CA. Seismologist with Ph.D. or M.S. in geophysics to work in areas of strong-motion seismology involving the modeling and prediction of strong ground motion for earthquake hazard evaluation, and nuclear test treaty verification involving seismic source identification and path calibration using broadband regional seismograms.

Contact: Search Committee, URS Corporation, 566 El Dorado Street, Pasadena, CA 91101; fax: 626/449-3536; e-mail: **carla_willis@urscorp.com**.

News of the Profession

Magnitude 7.6 Earthquake Strikes El Salvador

El Salvador, Central America's smallest country, was hit by a magnitude 7.6 subduction zone earthquake on Saturday, January 13. Eight days after the event, the death toll was estimated at over 700, with 500 still missing and feared dead. More than 4,000 people have been injured, and approximately 70,000 homes have been destroyed. There were 15 aftershocks with magnitudes greater than 4 in the five days after the main shock, the largest measuring 5.7.

The epicenter was southwest of the capital city, San Salvador, about 35 km offshore underneath the Pacific Ocean at a depth of about 35 km. Shaking was felt across El Salvador, Guatemala, Nicaragua, and Honduras, and as far north as Mexico City. Guatemalan officials reported six fatalities due to the earthquake.

A national state of emergency was declared in El Salvador, which has a population of 6.2 million. The middle-class San Salvador suburb of Santa Tecla and the Pacific coast province of La Libertad were the hardest hit regions. Most structural damage occurred in small villages and towns, where adobe and unreinforced masonry are the typical construction materials. In the Las Colinas neighborhood in Santa Tecla, most of the damage was due to a landslide that covered about 300 homes with a flow of mud and debris. About 50,000 people were evacuated as aftershocks caused additional landslides in several areas.

In the city of San Salvador, one instrument indicated peak ground acceleration of 0.17g. Engineered structures there fared well. In mid-rise and high-rise buildings, some damage occurred to nonstructural walls that could not contend with structural movements.

The government of El Salvador is estimating the earthquake caused up to US$1 billion in damage in a US$6 billion-a-year economy. This is the worst earthquake to hit El Salvador since a 1986 event centered near San Salvador killed about 1,500 people and injured 8,000.

This report was compiled with help from information provided by Sergio Alcocer, Manuel Lopez, Conrad Paulson, and Roberto Quaas. A more complete report will be included in a future Newsletter.

Landslide in Santa Tecla.
(Photo from Reuters/El Diario de Hoy)

News of the Profession

FEMA Region 8 Seeks Program Specialist

The Federal Emergency Management Agency has announced a vacancy in Region VIII, Mitigation Division, Community Mitigation Programs Branch, for a Natural Hazards Program Specialist. The selected candidate will deal with government officials on the National Earthquake Hazards Reduction (EHR) Program; coordinate activities for the Federal Earthquake Response Preparedness Planning Program; conduct meetings on response preparedness requirements; review response plans of other government agencies; provide education on the requirements of the EHR Act and disaster-resistant practices; serve at disaster sites as needed. The application deadline is February 12, 2001. For the complete announcement (RVIII-00-140A), click on Regional Positions at **http://www.fema.gov/career/.**

Announcements

New Map Shows Epicenters and Areas Damaged by M ³ 5 California Earthquakes since 1800

California Division of Mines and Geology Map Sheet 49 [MS 49] displays epicenters of known potentially damaging earthquakes [M ³ 5] since 1800 for California and a ~100 km zone bordering the state. An inset map shows the areas that were damaged by the larger earthquakes [M ³ 5.5]. The number of times various areas were damaged is indicated by different colors.

MS 49 identifies the 383 epicenters of M ³ 5.5 earthquakes by listing them in order of latitude and longitude, giving dates and magnitudes. It divides the 200-year history into three nearly equal time periods, one instrumental and two pre-instrumental. These are distinguished by red, blue, and green to show the changes in earthquake occurrence and identification with time. The epicenters and magnitudes in the two pre-instrumental periods are based predominantly on analysis and interpretation of felt effects and comparison with modern earthquakes.

The inset damage map shows the areas shaken at Modified Mercalli Intensity VII or greater, which is the threshold of damage to weak buildings. It also shows the number of times such damage has occurred. The epicenters are the points where fault rupture initiated; they are not necessarily the points of most intense shaking or damage. The Los Angeles area, the San Francisco Bay Area, and Eureka to Cape Mendocino were damaged at least six times since 1800.

To order the $10 map, call 916/ 445-5716, or see **www.consrv.ca.gov/dmg.**

CALENDAR

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

2001

FEBRUARY

7-10. 2001 EERI Annual Meeting, Monterey, CA. Info: **www.eeri.org** (2/00, 10/00, 11/00, 12/00, 1/01)

21. USGS Natural Hazards Conference, Menlo Park, CA. See page 2. (2/01)

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

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

MARCH

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

21-23. Safety, Risk, and Reliability - Trends in Engineering, Malta. Info: **malta.2001@iabse.ethz.ch**, web site: **www.iabse.ethz.ch/conferences/malta** (11/99)

26-31. 4th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA. Info: **prakash@ umr.edu** (2/00, 6/00, 1/01)

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

APRIL

16-20. Conf. on Civil Engineering in Asia, Tokyo, Japan. Info: **www02.u-page.so-net.jp/tg7/cecar** (12/00)

18-20. SSA Annual Meeting, San Francisco, CA. Info: **www.seismosoc.org/meetings/** (1/01)

MAY

10-11. 2nd ATC-35 National Earthquake Ground-Motion Mapping Workshop, San Francisco, CA. Info: www.atcouncil.org (2/01)

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

JUNE

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

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

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

AUGUST

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

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

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

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

SEPTEMBER

4-6. ERES 2001, Malaga, Spain. Info: **www.wessex.ac.uk/conferences/2001/eres01/** (11/00)

OCTOBER

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

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

2002

FEBRUARY

6-9. 2002 EERI Annual Meeting, Westin Hotel, Long Beach, CA.

JULY

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

SEPTEMBER

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

News of the Profession

Southern California HAZUS User Group

The Southern California Earthquake Center (SCEC) and the Federal Emergency Management Agency (FEMA) are in the process of organizing the Southern California HAZUS User Group (SoCalHUG).

SoCalHUG will be modeled on FEMA's success in establishing the San Francisco Bay Area HAZUS User Group (BAHUG). Public and private risk managers, GIS professionals, and earthquake experts throughout southern California are encouraged to participate.

The objectives of SoCalHUG are to create a comprehensive regional earthquake risk assessment; create a network of risk managers, GIS professionals, and earthquake experts; train GIS professionals in HAZUS software; improve earthquake modeling capabilities and databases; develop and exercise emergency management protocol; and demonstrate the process by which other regions can develop HAZUS application projects. The ultimate goal is to reduce life loss and property damage after the next major southern California earthquake.

The first general SoCalHUG meeting is planned for March or April 2001. To be added to the database and e-mail list of people interested in participating, send your name, title, organization, and contact information to **jcaplan@mediaone.net**.

See **www.hazus.org** for more information about BAHUG, SoCalHUG, and other groups being formed.

News of the Institute

New Regional Chapter in Southern California

A new regional chapter of EERI has recently been formed in southern California. Thirty EERI members signed the petition to establish the chapter, which was approved by the EERI Board of Directors.

The first organizational meeting was held on January 12, 2001, at the offices of Law/Crandall in the City of Commerce. The agenda for the meeting included the following: election of chapter officers, goals of the chapter, seismic safety initiatives, establishment of a virtual (or digital) chapter, and planning for the 2002 EERI Annual Meeting in Long Beach.

The following members were elected officers:

Marshall Lew, President
Dave Breiholz, Vice President
Y. Henry Huang, Secretary-Treasurer

Terry Dooley will serve as Chair of the 2002 Annual Meeting Planning Committee. Chapter members plan for the meeting program to promote seismic safety initiatives as a means to educate the earthquake engineering community and the public. Media participation will be a key to achieving this. The program may also include the presentation of an earthquake scenario on the Palos Verdes fault.

The chapter will meet quarterly. The next meeting is scheduled for Friday, March 9, at noon, again at the Law/Crandall offices. For more information on the chapter, contact Marshall Lew by phone: 323/889-5325, or e-mail: **mlew@lawco.com**.

Following are the chapter's charter members:
Anthony Augello, Golder Associates, Inc.
Robert E. Bachman, Structural Engineer
John A. Barneich, Geo Pentech
Linda Bourque, UCLA
David C. Breiholz, Breiholz Qazi Eng., Inc
David W. Cocke, Degenkolb Engineers
David Corman, Thornton Tomasetti Eng.
L. LeRoy Crandall, Crandall Consultants, Inc
C. Terry Dooley, Morley Builders
J. C. Esquivel, J. Carlos Esquivel Struct. Eng.
Richard L. Hess, Hess Engineering, Inc.
Sampson Huang, Hart Consultant Group
Y. Henry Huang, L.A. Co. Public Works Dept.
Martin Byrd Hudson, Law/Crandall, Inc.
Donald K. Jephcott, Structural Engineer
John Kariotis, Kariotis & Assoc. Struct. Eng.
Mark Legg, Legg Geophysical
Gerald D. Lehmer, Gerald Lehmer Assoc.
Marshall Lew, Law/Crandall, Inc.
Dennis S. Mileti, University of Colorado
Farzad Naeim, John A. Martin & Assoc., Inc.
Shafat Qazi, Breiholz Qazi Engineering, Inc.
Manlio Roy, Structural Engineer
Ben L. Schmid, B. L. Schmid Cons. St. Eng.
Fred H. Schott, Fred H. Schott & Associates
Matthew J. Skokan, UCLA (student)
James E. Slosson, Slosson & Associates
Amie M. Smith, Degenkolb Engineers
Paul G. Somerville, URS Corporation
E. C. Stovner, LZA Tech./Thornton-Tomasetti

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