

# 2003 EERI ENDOWMENT PROJECTS ANNUAL REPORT

## *2003 Endowment Projects Committee:*

Farzad Naeim, Chair; Daniel Alesch; Richard Eisner; David Friedman; John Hooper; William Iwan;  
Thomas O'Rourke, *Board contact*; Ellen Rathje; Susan Tubbesing, *ex officio*.

## **The Seattle Scenario and Guidelines for Scenario Development**

Work on two large projects in Seattle, initiated by the Endowment Fund in 2002 and partly funded by FEMA, continued through the year 2003. EERI is supporting the development of guidelines for the preparation of regional earthquake scenarios. The guidelines are based on documenting the experience of the Seattle earthquake engineering community in developing a scenario for a magnitude 6.7 earthquake on the Seattle Fault.

The Seattle Fault runs west to east, beneath the cities of Seattle and Bellevue. A 6.7 earthquake is expected to generate peak ground accelerations (PGA) as high as 70 percent gravity near the fault, comparable to the Northridge and Kobe earthquakes. The event would have significant impact as far north as the King-Snohomish County line as and as far south as the Pierce-King County line.

The USGS developed a regional scenario for the area in 1975. Since that time there has been a dramatic increase in the understanding of the regional seismic hazard and general acknowledgement of an increased level of vulnerability. These factors, coupled with the substantial population growth and increased exposure has resulted in a much larger societal risk. Using existing information developed by regional earthquake professionals and organizations, additional studies such as an HAZUS run will be gathered. In some cases, impacts and losses have been estimated within limited sectors of the Seattle region, but until now, the information has not been integrated into a single document that can describe the earthquake risk and serve as a call to action for mitigation in the community.

A complete regional earthquake scenario is by nature a multi-disciplinary effort that involves the private, government, and academic sectors. The challenge of bringing together experts in earthquakes, regional economics, structural engineering, infrastructure, and emergency management to explain the full impact of a Seattle Fault earthquake is being documented for the development of Guidelines. Communities that are not fully aware of their own earthquake risk and need to initiate public mitigation efforts will benefit from Seattle's experience and the Scenario Guidelines.

EERI board member Don Ballantyne has guided a multi-disciplinary committee through the challenging development of the Seattle Scenario. Jane Preuss, EERI member, is writing the Guidelines. The two projects will be completed in Spring 2004.



*Collapse of a Seattle URM building in the Nisqually Earthquake.*

## Shah Family Innovation Prize

More nominations for the Shah Family Innovation Prize were received in 2003 than in any previous years. A particularly large number of international nominees were recommended this year. Given the more global impact of recent earthquake engineering innovations, the Prize Selection Committee looked beyond the traditional field of structural engineering and awarded the 2003 Shah Family Innovation Prize to Paul VanderMarck, Executive Vice President of Risk Management Solutions Inc., in recognition of his outstanding entrepreneurship and leadership in the field of catastrophe risk management.

Paul engineered a new modeling framework for incorporating structural and non-structural attributes of a building to improve earthquake damage and loss estimates. He developed specifications for validation of earthquake loss models that significantly improved their accuracy. Paul forged partnerships between leading insurance organizations and professionals in several developing countries in Asia and Latin America that have benefited the practice of earthquake engineering and have improved the practice of risk assessment and risk management in these countries. He has been in the forefront of changing the culture and business practices of large financial institutions around world. Through the promotion of new loss estimation models such as weather securities, Paul contributed to raising awareness among insurance and financial professionals of earthquake and other natural risk. By translating accepted earthquake engineering and scientific knowledge, Paul VanderMarck has helped the insurance/reinsurance industry worldwide to better manage catastrophic risk.

## Friedman Family Visiting Professional Program

Since 2001, David Friedman and members of his family have generously underwritten the very popular Visiting Professional Program. The Program brings leaders in the field of earthquake engineering to EERI student chapters throughout the U.S. Speakers present lectures on current issues and through question and answer sessions, and other informal meetings, help students to learn about the actual practice of engineering profession. In 2003, the following visits were supported by the Friedman Family Program:

- James O'Malley to University of Michigan
- Ron Eguchi to University of Missouri, Rolla
- Leslie Robertson to University of Minnesota
- Faiz Makdisi to University of Illinois, Urbana-Champaign

More information about the program and a list of professionals currently available for visits is available by contacting Sonya Hollenbeck at the EERI office, [Sonya@eeri.org](mailto:Sonya@eeri.org).

## 2003 Financial Report

### Contributions

<b>TOTAL FUND VALUE</b>	<b>1,024,345</b>
EERI Contribution to Principal	
Member Contributions to Principal	28,504
Nick Forell Memorial Fund	(1,106)
Friedman Family Fund	38,963
Shah Family Innovation Prize	22,148
<b>ENDOWMENT FUND TOTAL</b>	<b>923,773</b>

### Project Funding

EERI General Fund Contribution	24,657
Endowment earnings used for projects	26,174
FEMA contributions for projects	25,000
Friedman Family Fund	7,285
Nick Forell Funds for Visiting Professionals	1,106
<b>TOTAL FUNDING</b>	<b>84,221</b>

### Expenditures

Administration	9,798
Program Costs	
Development	14,082
Visiting Professionals	8,390
World Housing Encyclopedia	15,575
Regional Scenario	36,376
<b>TOTAL EXPENDITURES</b>	<b>84,221</b>

## 2003 Endowment Fund Donors

### \$1,000-\$5,000

Allen, Clarence R  
Friedman, David Alan & Paulette  
Meyer  
Idriss, I M  
Josephson, Carl H  
Lindblad, William J  
Poland, Chris D

### \$500-\$1,000

Braun, Forrest T  
Hamburger, Ronald O  
Lundeen, Terry R  
Naeim, Farzad  
Pacific Gas & Electric Co  
Paulson, Conrad  
Perry, Cynthia L  
Sharpe, Roland L

### \$200-\$500

Arnold, Christopher  
Basoz, Nesrin  
Beavers, James E  
Bertero, Vitelmo V  
Bolton, Patricia A  
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Cherry, Sheldon  
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Dengler, Lori  
Dooley, C Terry  
Dowrick, David J  
Eggenberger, Andrew J  
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Greene, Marjorie  
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Hanson, Robert D  
Jennings, Paul C  
Kavazanjian, Edward, Jr  
Kinemetrics Inc  
Lagorio, Henry J  
Mitchell, James K  
Morelli, Ugo  
Nyman, Douglas J  
O'Rourke, Thomas D  
Robertson, Leslie E  
Russell, James E  
Savage, William U (Woody)  
Schultz, Chester L  
Shapiro, Daniel  
Tillman, Craig W  
Tobin, L Thomas  
Tubbesing, Susan K  
Valley, Michael  
Veletsos, Anestis S  
Whitman, Robert V

### \$100-\$200

Agbabian, Mihran S  
Aho, John L  
Alesch, Daniel J  
Algermissen, S T  
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Basseri, Siavash  
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Chakos, Arrietta  
Charney, Finley A  
Chew, Yan Yan  
Chittenden, Robert N  
Christensen, Ted M  
Christenson, Gary  
Clark, Bruce R  
Correia, William J  
Eguchi, Ronald Tadashi  
Esquivel, Juan Carlos  
Foutch, Douglas A  
Gould, Phillip L  
Green, Melvyn  
Grossman, Jacob  
Gupta, Sunil  
Hall, William J  
Hanks, Thomas C  
Hollstein, Joe  
Holzer, Thomas L  
Huggins, Richard  
Hussain, Saif M  
Iglesias, Jesus  
Jirsa, James O  
Lee, George C  
Leeds, David J  
Linhart, Frank J  
Lund, LeVal  
May, Peter J  
Mejia, Luis G  
Meyer, John D  
Mostaghel, Naser  
Nelson, Rawn  
Pardoen, Gerard C  
Petak, William J  
Prakash, Shamsher  
Rathje, Ellen M  
Roberts, James E  
Schiff, Anshel J  
Sharpe, Roger L  
Sughayer, Hassan  
Tuncer, Kaya  
Wada, Akira  
Wells, Donald L  
Wood, Sharon L  
Wright, Richard N  
Yeun, Michael  
Youd, T Leslie  
Zacher, Edwin  
Zee, Howard L

### Other Amounts

Alcocer, Sergio M  
Allen, Jay  
Barzegar, Fariborz  
Bedrosian, Bedros  
Brunetti, Gino  
CEA/SAC  
Chapin, Michael S  
Chesi, Claudio  
Chew, Robert Y  
Comerio, Mary C  
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Davis, James F  
Dobry, Ricardo  
Egan, John A  
Elliott, Teresa  
Elliott, William M  
Elnashai, Amr Salah  
Finney, Clement J  
Foley, Christopher M  
French, Catherine  
Goltz, Jim  
Gutierrez, Arnaldo  
Halbo, Finn T  
Hayes, John R  
Heausler, Thomas F  
Hepworth, Richard C  
Holmes, William T  
Hoover, Cynthia A  
Hosseinian, Hossein Mohazzab  
Hultengren, Larry C  
Hutchinson, Tara C  
Jacob, Klaus H  
Jephcott, Donald K  
Jones, Trevor  
Kakaliagos, Aristotle  
Kallaby, Joseph  
Kind, Fortunat J P  
Krimgold, Frederick  
LaFave, James  
Lavery, Gordon L  
Lawver, Darell J  
Lehmer, Gerald D  
Leon, Roberto T  
Lew, Marshall  
Luna, Ronaldo  
Mader, George G  
Marrow, Joshua  
Martinez-Romero, Enrique  
McLaren, Marcia K  
Meehan, John  
Merovich, Andrew T  
Minowa, Chikahiro  
Miranda, Eduardo  
Mitchell, William A  
Mole, Andrew

Mujumdar, Vilas  
Nash, William A  
Nathe, Sarah  
Ohi, Kenichi  
Olshansky, Robert B  
Oppenheim, Irving J  
Parra-Montesinos, Gustavo  
Pavon, Victor M  
Pinelli, Jean-Paul  
Preuss, Jane  
Quittmeyer, Richard C  
Robb, John O  
Ross, Richard Dale  
Ryter, Stanley W  
Shina, Isaac S  
Stokoe, Kenneth H  
Turner, Fred M  
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Weigel, Terence A  
Wosser, Thomas D  
Wu, Jong-Cheng  
Yamaguchi, Shoichi  
Yamanouchi, Hiroyuki

## Watercolor by Chris Arnold

All donations to the Endowment Fund are acknowledged with a watercolor print by Chris Arnold, architect and former EERI president. This year the print is of the new Walt Disney Concert Hall in Los Angeles.

