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## Research Progress and Accomplishments: 1999-2000

The second annual *Research Progress and Accomplishments* report highlights our achievements on research and education during the past year. This time period was marked by two devastating earthquakes in Turkey and Taiwan. MCEER reconnaissance teams visited both these areas, and several of the papers in this report describe their efforts to learn from these tragic events. A few papers describe research that has been completed, most notably the Federal Highway Administration-sponsored project on the seismic vulnerability of new highway construction, while others describe work in progress. The authors identify the sponsors of the

research, collaborative partners, related research tasks within MCEER's various programs, links to research and implementation efforts outside MCEER's program, and web site addresses for additional information. Papers are:

- Modeling Earthquake Impact on Urban Lifeline Systems: Advances and Integration by *Stephanie E. Chang (Coordinating Author), Adam Rose, Masanobu Shinozuka, Walter D. Svekla and Kathleen J. Tierney*
- Development of Fragility Information for Structures and Nonstructural Components by *Masanobu Shinozuka, Mircea Grigoriu (Coordinating Author), Anthony R. Ingraffea, Sarah L. Billington, Peter Feenstra, Tsu T. Soong, Andrei M. Reinhorn and Emmanuel Maragakis*
- Damage to Critical Facilities Following the 921 Chi-Chi, Taiwan Earthquake by *Tsu T. Soong (Coordinating Author), George C. Yao and Chi-Chang Lin*
- Highway Bridge Seismic Design: Summary of FHWA/MCEER Project on Seismic Vulnerability of New Highway Construction by *Ian M. Friedland*
- Ground Motion Prediction Methodologies for Eastern North America by *Apostolos S. Papageorgiou*
- Fiber Reinforced Composites for Advanced Seismic Performance of Water Supplies by *Thomas D. O'Rourke (Principal Author), James A. Mason, Ilker Tutuncu and Timothy Bond*
- The Marmara, Turkey Earthquake: Using Advanced Technology to Conduct Earthquake Reconnaissance by *Ronald T. Eguchi (Coordinating Author), Charles K. Huyck, Bijan Houshmand, Babak Mansouri, Masanobu Shinozuka, Fumio Yamazaki, Masashi Matsuoka and Suha Ülgen*
- Restoration Activities Following the Marmara, Turkey Earthquake of August 17, 1999 by *Gary R. Webb*
- Human and Institutional Perspectives of the 921 Chi-Chi, Taiwan Earthquake by *George C. Lee and Chin-Hsiung Loh*
- Education and Educational Outreach: Using the Center Approach for Effective Knowledge Transfer by *Andrea S. Dargush and George C. Lee*
- Graduate Professional Education in Earthquake Engineering: An Integrated Approach by *Andrei M. Reinhorn, Shahid Ahmad and Ernest Sternberg*

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