THURSDAY, OCTOBER 23, 2003

8:00 am – Noon: REGISTRATION AND COFFEE

8:40 – 8:50 am: OPENING REMARKS: Christopher Rojahn (ATC); Michel Bruneau (MCEER)

8:50 – 9:55 am: SESSION I: CURRENT PRACTICES AND EMERGING CODES I
                    Richard Hess (Chair)

                   Invited Paper: Code Provisions with Special Reference to OSHPD Requirements;
                        W. Staehlin*

                   Investigation of Code Seismic Force Levels for Hospital Equipment; J. P. Horne* and H. Burton, Jr


                   Installing Seismic Restraints on Mechanical, Electrical, Pipe and Duct Equipment; J. A. Carlson*

9:55 – 10:15 am: BREAK

10:15 – 11:45 am: SESSION II: CURRENT PRACTICES AND EMERGING CODES II
                     Robert Reitherman (Chair)


                   Nonstructural Seismic Qualification: Development of a Rational Shake-Table Testing Protocol Based on Model Building Code Requirements; J. A. Gatscher*, P. J. Caldwell, and R. E. Bachman

                   Seismic Protection of Critical Contents at U.C. Berkeley; M. C. Comerio* and W. T. Holmes

                   Recent and Future Developments in the NEHRP Provisions for Nonstructural Component Design; J. D. Gillengerten*

                   Discussion

11:45 am – 1:15 pm: LUNCH

1:15 – 3:05 pm: SESSION III: SEISMIC DESIGN AND RETROFIT I
                    William Staehlin (Chair)

                   Invited Paper: Evolving Design Rules for Post-Installed Anchors; J. Silva*

                   It Makes Dollars and Sense to Improve Nonstructural System Performance; C. A. Kircher*

                   Design Considerations for Nonstructural Claddings and Partitions in Critical Facilities; G. R. Searer and S. A. Freeman*

                   Lessons Learned in the Large Scale Nonstructural Seismic Retrofit of Hospitals; J. Lewis*, A. Mohseni, and M. DeKoning

                   Protecting Laboratory Equipment by Implementing Nonstructural Hazard Mitigation; G. Selvaduray*
Seismic Behavior of Free-Standing Bookcases and Partition Wall-Bookcase Systems;  
S. Kuan, A. Filiatrault*, and R. Tremblay

The Seismic Retrofit of Nonstructural Elements at John Wayne Airport Terminal Building-  
A Performance Based Approach; S. Hilmy*, L. Serafini*, and M. Wolfe

3:05 pm – 3:25 pm: BREAK

3:25 pm – 5:00 pm: SESSION IV: SEISMIC DESIGN AND RETROFIT II  
Walter Vernon (Chair)

Invited Paper: Case Studies of Anchorage Failures; R. J. Lloyd*

Home and Office Nonstructural Mitigation: Lessons Learned from Shake Table Testing In  
Turkey; R. Green* and O. Caliskan

The Value of Seismically Installing and Strengthening Nonstructural Equipment and  
Systems to Significantly Reduce Business Interruption Losses; N. Gould* and M. J. Griffin

Seismic Retrofit of Storage Racks and Shelving at Warehouse for High-Value Equipment  
and Parts; R. P. Gallagher* and J. Steinberg

Analytical and Experimental Seismic Assessment of Existing and Retrofitted Metal-Stud  
Partitions; R. Elhassan*, C. Tokas, and B. Faircloth

A Comparison of Seismic Risk of Nonstructural Systems in a Hospital Before and After a  
Major Structural Retrofit; M. Tong*, G. Lee, V. Rzhevsky, J. Qi, M. Shinozuka, and  
J. Middleton

Discussion

5:00 pm: ADJOURNMENT OF DAY 1

FRIDAY, OCTOBER 24, 2003

8:00 – 8:10 am: OPENING REMARKS: Larry T. T. Soong (MCEER)

8:10 – 10:00 am: SESSION V: RISK AND PERFORMANCE EVALUATION I  
Mircea Grigoriu (Chair)

Invited Paper: An Overview of Nonstructural Components Research at Three U.S.  
Earthquake Engineering Research Centers; A. Whittaker* and T. T. Soong

A Framework to Quantitatively Assess and Enhance Seismic Resilience of Communities; M.  
Bruneau*, S. E. Chang, R. T. Eguchi, G. C. Lee, T. D. O’Rourke, A. M. Reinhorn,  
M. Shinozuka, K. Tierney, W. A. Wallace, and D. Von Winterfeldt

Seismic Risk Assessment of Nonstructural Components in Hospitals; M. Shinozuka* and  
S. Masri

Seismic Fragility Analysis and Performance Improvement of Elevators in Building  
Structures; Rildova and M. Singh*

Seismic Behavior of Welded Hospital Piping Systems; E. Maragakis*, A. Itani, and  
E. Goodwin

Performance Characterization of Suspended Ceiling Systems; H. Badillo-Almaraz,  
A. S. Whittaker*, and A. M Reinhorn

Estimation of Seismic Demands on Acceleration Sensitive Nonstructural Components in  
Critical Facilities; E. Miranda* and S. Taghavi

10:00 – 10:20 am: BREAK
10:20 am – Noon:  SESSION VI:  RISK AND PERFORMANCE EVALUATION II  
Manos Maragakis (Chair)

**Procedures for Estimating Floor Accelerations;** B. Kehoe*, and M. Hachem

**Fragility Analysis for Nonstructural Systems in Critical Facilities;** M. Grigoriu* and C. Kafali

**Nonstructural System Response to Vertical Excitation and Implications for Seismic Qualification;** G. Pekcan*, A. Itani, and W. Staehlin

**Experimental and Analytical Studies on the Seismic Response of Slender Laboratory Equipment;** D. Konstantinidis* and N. Makris

**Performance Thresholds of Precast Cladding Systems;** K. McMullin*, Y. Wong, C. Choi, K. Chan, and A. Kwong

*Discussion*

Noon – 1:30 pm:  LUNCH

1:30 – 3:15 pm:  SESSION VII:  SYSTEM QUALIFICATION AND TESTING  
Larry T. T. Soong (Chair)

**An Overview of Shake-Table Characteristics Used for Seismic Qualification Testing;** P. Laplace*, G. Pekcan, and A. Itani

**Lessons from Seismic Qualification Testing of Flexible Ceiling Mounted Double-Adjustable Hospital Equipment Arm;** P. Dusicka* and A. H. Itani

**Equipment Qualification for Product Line Families Using a Shaker Table Type Testing Campaign;** P. J. Caldwell* and J. A. Gatscher

**Non-stationary Strong Motion Time History for Qualification Testing of Electrical Equipment;** G. Fenves, S. Takhirov*, and E. Fujisaki

**Full-Scale Racking Test Evaluation of Autoclaved Aerated Concrete (AAC) Cladding Panels;** A. Memari*

**Bench- and Shelf-Mounted Equipment and Contents:  Shake Table Experiments;** T. C. Hutchinson* and S. Ray Chaudhuri

*Discussion*

3:15 – 3:35 pm:  BREAK

3:35 – 4:55 pm:  SESSION VIII:  ADVANCED TECHNOLOGIES  
Andrew Whittaker (Chair)

**Experimental and Analytical Study of Base-Isolated Power Transformers;** N. Murota*, M. O. Feng, and G.-Y. Liu

**Application of Wire Energy Absorbing Rope (WEAR) to Critical Facility Piping Systems;** L. Loziuk*, T. Zemanek, and I. Aiken

**Sliding Magnet Isolators for Museum Showcase Protection;** G. C. Yao*, C. S. Huang, S. F. Yen


*Discussion*

4:55 – 5:00 pm:  CLOSING REMARKS:  M. Bruneau and L. Soong (MCEER), C. Rojahn (ATC)

5:00 pm:  ADJOURNMENT OF DAY 2

*Presenting Author*