PUBLICATIONS RECORD

The University of British Columbia - Department of Civil Engineering

Date: 1/4/2011

Initials:

SURNAME: Elwood

FIRST NAME: Kenneth
MIDDLE NAME(S): John

I have indicated with an asterisk (*) those publications I consider of primary importance.
Names in bold are students or post-doctoral fellows working under my supervision.
Names underlined are presenters for conference papers.

1. REFEREED PUBLICATIONS

(a) Journals

1. Mitchell, D., Paultre, P., Tinawi, R., Saatcioglu, M., Tremblay, R., Elwood, K.J., Adams, J., DeVall, R. (2010) "Evolution of Seismic Design Provisions in the National Building Code of Canada", *Canadian Journal of Civil Engineering*, Vol. 37, No. 9, September 2010, pp. 1157-1170.
2. Yavari, S., Chang, S., and Elwood, K.J. (2010) "Modeling Post-Earthquake Functionality of Regional Health Care Facilities", *Earthquake Spectra*, Earthquake Engineering Research Institute, vol. 26, no. 3, August 2010, pp. 869-892.
3. * Elwood, K.J., Maffei, J., Riederer, K., and Telleen, K. (2009) "Improving column confinement: Part 2 – A new confinement provision of ACI 318", Concrete International, American Concrete Institute, Dec. 2009.
4. * Elwood, K.J., Maffei, J., Riederer, K., and Telleen, K. (2009) "Improving column confinement: Part 1 – Assessment of design provisions", Concrete International, American Concrete Institute, Nov. 2009.
5. * Elwood, K.J. and Eberhard, M.O., (2009) "Effective Stiffness of Reinforced Concrete Columns", *ACI Structural Journal,* American Concrete Institute, vol. 106, no. 4, July 2009, pp. 476-484.
6. Riahi, Z., Elwood, K.J., and Alcocer, S.M. (2009) "Backbone model for confined masonry walls", *Journal of Structural Engineering,* ASCE, vol. 135, no. 6, June 2009, pp. 644-654.
7. Yavari, S., Elwood, K.J., and Wu, C.-L., (2009) "Collapse of a Nonductile Concrete Frame: Evaluation of Analytical models", *Earthquake Engineering and Structural Dynamics*, vol. 38, no. 2, Feb 2009, pp. 225-241.
8. Wu, C.-L., Kuo, W.-W., Yang, Y.-S., Hwang, S.-J., Elwood, K. J., Loh, C.-L. and Moehle, J. P., (2009) "Collapse of a Nonductile Concrete Frame: Shaking Table Tests", *Earthquake Engineering and Structural Dynamics*, vol. 38, no. 2, Feb 2009, pp. 205-224.
9. Kang T. H.-K., Wallace J. W. and K. J. Elwood, (2009) "Nonlinear Modeling of Flat Plate Systems," *Journal of Structural Engineering*, ASCE, vol. 135, no. 2, Feb. 2009.
10. Wallace, J.W., Elwood, K.J., and Massone, L.M. (2008) "Investigation of the Axial Load Capacity for Lightly Reinforced Wall Piers", *Journal of Structural Engineering*, ASCE, vol. 134, no. 9, Sept. 2008, pp. 1548-1557.
11. Elwood, K.J., and Moehle, J.P., (2008) "Dynamic Shear and Axial Load Failure of Reinforced Concrete Columns", *Journal of Structural Engineering*, ASCE, vol. 134, no. 7, July 2008, pp. 1189-1198.
12. Elwood, K.J., and Moehle, J.P., (2008) "Dynamic Collapse Analysis for a Reinforced Concrete Frame Sustaining Shear and Axial Failure", *Earthquake Engineering and Structural Dynamics*, vol. 37, no. 7, June 2008, pp. 991-1012.

13. * Sharif, I., Meisl, C., and Elwood, K.J., (2007) "Assessment of ASCE 41 Height to Thickness Ratio Limits for URM Walls", *Earthquake Spectra*, Earthquake Engineering Research Institute, vol. 23, no. 4, pp. 893–908.
14. Koduru, S.D., Haukaas, T. and Elwood, K.J. (2007) "Probabilistic Evaluation of Global Seismic Capacity of Degrading Structures" *Earthquake Engineering and Structural Dynamics*, vol. 36, pp. 2043–2058.
15. Meisl, C., Elwood, K.J., and Ventura, C.E., (2007) "Shake table tests on the out-of-plane response of unreinforced masonry walls", *Canadian Journal of Civil Engineering*, vol. 34, no. 11, pp. 1381-1392.
16. Zhu, L., Elwood, K.J., Haukaas, T. (2007) "Classification and Seismic Safety Evaluation of Existing Reinforced Concrete Columns", *Journal of Structural Engineering*, American Society of Civil Engineers, vol. 133, no. 9, pp. 1316–1330.
17. * Elwood, K.J., Matamoros, A., Wallace, J.W., Lehman, D.E., Heintz, J.A., Mitchell, A., Moore, M.A., Valley, M.T., Lowes, L. Comartin, C., and Moehle, J.P., (2007) "Update of ASCE/SEI 41 Concrete Provisions", *Earthquake Spectra*, Earthquake Engineering Research Institute, August 2007, vol. 23, no. 3, pp. 493-523.
    - ✓ Awarded the Outstanding Paper Award from Earthquake Spectra (see Awards above)
18. Elwood, K.J., and Moehle, J.P., (2006) "Idealized backbone model for existing reinforced concrete columns and comparisons with FEMA 356 criteria", *The Structural Design of Tall and Special Buildings*, vol. 15, no. 5, pp. 553-569.
19. Meisl, C., Safaie, S., Elwood, K.J., Gupta, R., and Kowsari, R., (2006) "Housing Reconstruction in Northern Sumatra following the 2004 Great Sumatra Earthquake and Tsunami", *Earthquake Spectra*, Special Issue on Sumatra Earthquake and Tsunami, Earthquake Engineering Research Institute, vol. 22, pp. S777 - S802.
20. Zhu, L., Elwood, K.J., Haukaas, T., Gardoni, P. (2006) "Application of a Probabilistic Drift Capacity Model for Shear-Critical Columns", *Deformation Capacity and Shear Strength of Reinforced Concrete Members Under Cyclic Loading, ACI Special Publication (SP-236),* American Concrete Institute, 21 pages.
21. * Elwood, K.J., and Moehle, J.P., (2005) "Axial Capacity Model for Shear-Damaged Columns", *ACI Structural Journal*, American Concrete Institute, vol. 102, no. 4, pp. 578-587.
    - ✓ Awarded Chester Paul Siess Award for Excellence in Structural Research (see Awards above)
22. Elwood, K.J., and Moehle, J.P., (2005) "Drift Capacity of Reinforced Concrete Columns with Light Transverse Reinforcement", *Earthquake Spectra*, Earthquake Engineering Research Institute, vol. 21, no. 1, pp. 71-89.
23. * Elwood, K.J., (2004) "Modelling failures in existing reinforced concrete columns", *Canadian Journal of Civil Engineering*, vol. 31, no. 5, pp. 846-859.
24. Sezen, H., Whittaker, A.S., Elwood, K.J., Mosalam, K.M., (2003) "Performance of Reinforced Concrete Buildings during the August 17, 1999 Kocaeli, Turkey Earthquake, and Seismic Design and Construction Practice in Turkey", *Engineering Structures*, vol. 25, no. 1, pp. 103-114.
25. Moehle, J.P., Elwood, K.J., and Sezen, H., (2002) "Gravity Load Collapse of Building Frames during Earthquakes", *S. M. Uzumeri Symposium: Behavior and Design of Concrete Structures for Seismic Performance*, *ACI Special Publication (SP-197)*, American Concrete Institute, pp. 215-238.
26. Wen, Y.K., Collins, K.R., Han, S.W., and Elwood, K.J. (1996) "Dual-Level Designs of Buildings under Seismic Loads", *Structural Safety*, vol. 18, no. 2-3, pp. 195-224.

(b) Conference Proceedings (full papers reviewed)

27. Penner, O. and Elwood, K.J. (2011) "Effect of Diaphragm Flexibility on Seismic Vulnerability of Out-Of-Plane Unreinforced Masonry Walls Subjected to Ground Motions from the 2010 Darfield Earthquake", 9th Australasian Masonry Conference, Queenstown, New Zealand, 15 – 18 February (11 pages).
28. Russell, A.P., Elwood, K.J., and Ingham, J.M. (2011) "General Force-Displacement Response of URM Walls with Flanges", 9th Australasian Masonry Conference, Queenstown, New Zealand, 15 – 18 February (12 pages).
29. Yavari, S., Lin S.-H., Wu C.-L., Elwood K. J., Hwang S-J., Bayhan B. and Moehle J.P. (2010) "Shake table tests on the collapse of RC frames subjected to moderate and high axial loads", 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, July 25-29, 2010 (10 pages).
30. Baradaran Shoraka, M., Elwood, K.J., Haukaas T., (2010) "System-level Acceptance Criteria for Seismic Assessments of Pre-1970s Reinforced Concrete Buildings", 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, July 25-29, 2010 (10 pages).
31. Talachian, S., Haukaas, T., Elwood, K.J. (2010) "Probabilistic models for seismic damage and subsequent losses." 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, July 25-29, 2010 (10 pages).
32. M. Baradaran Shoraka, Charlet, A.Y., Elwood, K.J., and Haukaas, T. (2008) "Hybrid Simulation of the Gravity Load Collapse of Reinforced Concrete Frames", *18th Analysis & Computation Specialty Conference, 2008 Structures Congress*, Vancouver, April 2008, 17 pages.
33. Charlet, A.Y., Schellenberg, A., Elwood, K.J., Haukaas, T. and Mahin, S.A. (2007) "Hybrid Simulation of the Gravity Load Collapse of Reinforced Concrete Frames", *Proceedings of the 9th Canadian Conference on Earthquake Engineering*, Ottawa, June 2007, 10 pages.
34. Yavari, S., Kuo, W.-W., Elwood, K.J., Wu, C.-L., Hwang, S.-J., and Loh, C.-H. (2007) "Analysis of Shake Table Collapse Tests for RC Frames", *Proceedings of the 9th Canadian Conference on Earthquake Engineering*, Ottawa, June 2007, 10 pages.
35. Mattman, D., Onur, T., and Elwood, K.J. (2007) "Inelastic Demands from Ground Motions Recorded during the 2003 Tokachi-Oki Subduction Interface Earthquake", *Proceedings of the 9th Canadian Conference on Earthquake Engineering*, Ottawa, June 2007, 10 pages.
36. Matthews, T., Elwood, K.J., Hwang, S.-J. (2007) "Explosive testing to evaluate dynamic amplification during gravity load redistribution for reinforced concrete frames" *Proceedings of the 2007 Structures Congress*, Long Beach, California, May 2007, 14 pages.
37. LaRose, K. and Elwood, K.J. (2006) "Performance of Headed Shear Stud Clusters for Precast Concrete Bridge Deck Panels", *Proceedings of the 2006 Annual Conference of the Transportation Association of Canada*, Charlottetown, Prince Edward Island, October 2006, 13 pages.
38. Mattman, D. and Elwood, K.J. (2006) "Inelastic displacement ratios of SDOF systems subjected to subduction earthquake records", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 2006, 10 pages.
39. Meisl, C., Elwood, K.J., Mattman, D., and Ventura, C. (2006) "Out-of-plane Seismic Performance of Unreinforced Clay Brick Masonry Walls", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 2006, 10 pages.
40. Zhu, L., Elwood, K.J., and Haukaas, T., (2006) "Assessment of Expected Failure Mode for Reinforced Concrete Columns", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 2006, 10 pages.
41. White, T., Ventura, C., Taylor, G. and Elwood, K. (2006) "British Columbia School Seismic Mitigation Program: Application of FEMA 440 Displacement Coefficient Method", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 2006, 10 pages.
42. Kang, T H.-K., Wallace, J.W., and Elwood, K.J., (2006) "Dynamic Tests and Modelling of RC and PT Slab-Column Connections", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 2006, 10 pages.

43. Wallace, J.W. and Elwood, K.J., (2006) "An Axial Load Capacity Model for Shear Critical RC Wall Piers", *Proceedings of the 8th National Conference on Earthquake Engineering*, San Francisco, California, April 18-21, 10 pages.
44. Haukaas, T., and Elwood, K.J. (2005) Finite Element Reliability Analysis with Degrading Reinforced Concrete Columns, *Proceedings of the 9th International Conference On Structural Safety and Reliability*, Rome, Italy, June 19-22, 2005, 7 pages.
45. White, T., Ventura, C., Taylor, G. and Elwood, K. (2005) Performance-Based Seismic Risk Assessment of Buildings in British Columbia: Analytical Methods, *33rd Annual General Conference of the Canadian Society for Civil Engineering*, CSCE, Toronto, ON, Canada, June 2-4, 2005, 10 pages.
46. White, T., Ventura, C., Taylor, G. and Elwood, K. (2005) Performance-Based Seismic Risk Assessment of Buildings in British Columbia: Project Overview, *33rd Annual General Conference of the Canadian Society for Civil Engineering*, CSCE, Toronto, ON, Canada, June 2-4, 2005, 9 pages.
47. Meisl, C., Mattman, D., Elwood, K., White, T., and Ventura, C. (2005) Out-of-plane Seismic Performance of Unreinforced Clay Brick Masonry Walls, *10th Canadian Masonry Symposium*, Banff, Alberta, June 8-12, 2005, 10 pages.
48. Elwood, K.J., and Moehle, J.P., (2003) "Shake Table Tests on the Axial Load Failure of Reinforced Concrete Columns", Proceedings of the 2003 fib Symposium: Concrete Structures in Seismic Regions, Athens, Greece, May 2003, Federation International du Beton, 12 pages.
49. Moehle, J.P., and Elwood, K.J., (2003) "Collapse performance prediction for RC frame structures", Proceedings of the 2003 Pacific Conference on Earthquake Engineering, Christchurch, New Zealand, February 2003, New Zealand Society for Earthquake Engineering, 8 pages.
50. Elwood, K.J., and Moehle, J.P., (2002) "Shake Table Tests on the Gravity Load Collapse of Reinforced Concrete Frames", Seventh US National Conference on Earthquake Engineering, Boston, MA, July 2002, Earthquake Engineering Research Institute, 10 pages.
51. Elwood, K.J., and Wen, Y.K. (1996) "Performance Evaluation of a Dual-Level Versus Current Design Using 1994 Northridge Earthquake Records", Proceedings of the 1996 ASCE 7th Specialty Conference on Probabilistic Mechanics and Structural Reliability, Worcester, MA, 8 pages.

(c) Conference Proceedings (abstracts reviewed)

52. Yavari, S., S.-H.. Lin, C.-L. Wu, K. J. Elwood, S-J. Hwang, and J.P. Moehle "Experimental Study on Dynamic Behavior of Multi-Story Reinforced Concrete Frames with Non-Seismic Detailing", ATC & SEI 2009 Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, December 9-11, 2009, San Francisco, USA, 10 pages.
53. Elwood, K. J. "Guide for Seismic Rehabilitation of Concrete Buildings: Vision" ATC & SEI 2009 Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, December 9-11, 2009, San Francisco, USA, 4 pages.
54. Sezen, H., Dragovich, J., Ghannoum, W., Lowes, L.N., Brena, S., Elwood, K. J. "Guide for Seismic Rehabilitation of Concrete Buildings: Summary of Future Changes" ATC & SEI 2009 Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, December 9-11, 2009, San Francisco, USA, 9 pages.
55. Chiou, T.-C., Weng, Y.-T., Hwang, S.-J., Elwood, K.J., "Seismic Assessment on In-situ School Testing in Taiwan Using Methodology of ASCE/SEI 41-06" ATC & SEI 2009 Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, December 9-11, 2009, San Francisco, USA, 10 pages.
56. Wu C.-L., Lin S.-H., Yavari, S., Weng P.-W., Hwang S-J., Elwood K. J., and Moehle J.P. "Design of Dynamic Collapse Testing System for 2-Story Reinforced Concrete Frames", 3rd International Conference on Advances in Experimental Structural Engineering, October 15-16, 2009, San Francisco, USA, 10 pages.

57. Chang, S.E., Pasion, C., Yavari, S., and Elwood, K.J. (2009) "Social Impacts of Lifeline Losses: Modeling Displaced Populations and Health Care Functionality", *Proceedings of the Technical Committee on Lifeline Earthquake Engineering 2009 Conference*, Oakland, California, July 2009, 10 pages.
58. Yavari, S., S.H. Lin, K.J. Elwood, C.L. Wu, S.J. Hwang, and J.P. Moehle (2008) "Study on Collapse of Flexure-Shear-Critical Reinforced Concrete Frames", *Proceedings of the Thirteenth World Conference on Earthquake Engineering,* Beijing, China, August 2004, 8 pages.
59. F. Devine, O. Olund, K.J. Elwood and P.E. Adebar (2008) "Seismic Performance of Concrete Tilt-up Buildings: Current Wall-to-Slab Connections", *Proceedings of the Thirteenth World Conference on Earthquake Engineering,* Beijing, China, August 2004, 8 pages.
60. Mitchell, A., Elwood, K.J., Moehle, J.P., Wallace, J.W., Comartin, C., Heintz, J.A., Lehman, D.E., Matamoros, A. Moore, M.A., and Valley, M.T. (2007) "Improved Predictions of Seismic Performance of Existing Concrete Buildings – ASCE/SEI 41, Supplement No. 1" *Proceedings of the 2007 Structures Congress*, Long Beach, California, May 2007, 14 pages.
61. Yavari, S., Kuo, W.-W., Elwood, K.J., Wu, C.-L., Hwang, S.-J., and Loh, C.-H. (2006) "Analysis of Shake Table Collapse Tests for RC Frames", *Proceedings of the 4th International Conference on Earthquake Engineering*, Taipei, Taiwan, October 2006, 10 pages.
62. Elwood, K.J., and Niit, E.J., (2004) "The Use of Power for the Characterization of Earthquake Ground Motions", Proceedings of the Thirteenth World Conference on Earthquake Engineering, Vancouver, BC, Canada, August 2004, 14 pages.
63. Elwood, K.J., and Moehle, J.P., (2004) "Evaluation of Existing Reinforced Concrete Columns", Proceedings of the Thirteenth World Conference on Earthquake Engineering, Vancouver, BC, Canada, August 2004, 15 pages.
64. Adebar, P., Guan, Z., Elwood, K., (2004) "Displacement-Based Design of Concrete Tilt-up Frames Accounting for Flexible Diaphragms", Proceedings of the Thirteenth World Conference on Earthquake Engineering, Vancouver, BC, Canada, August 2004, 15 pages.
65. Moehle, J.P., Elwood, K.J., Sezen, H., and Holmes, W.T., (2003) "Shear and Axial Load Failure of Older Reinforced Concrete Building Columns", Structural Engineering Association of California 2003 Annual Convention Proceedings, August 2003, 10 pages.
66. Elwood, K.J., and Moehle, J.P., (2002) "Shake Table Tests on the Gravity Load Collapse of Reinforced Concrete Frames", International Conference on Advances and New Challenges in Earthquake Engineering Research, Harbin, China, August 2002, 8 pages.
67. Elwood, K.J., and Wen, Y.K. (1996) "Evaluation of a Dual-Level Design Approach for the Earthquake Resistant Design of Buildings", Proceedings of the Eleventh World Conference on Earthquake Engineering, Acapulco, Mexico, Paper No. 609: Pergamon, Elsevier Science Ltd., Oxford, England, 8 pages.

(d) Other

68. * ACI Committee 369, (2011) "Guide for Seismic Rehabilitation of Existing Concrete Frame Buildings and Commentary" American Concrete Institute, Farmington Hills, MI.(39 pages)
    - *Committee document produced under my Chairmanship.*
69. Matthews, T., Riahi, Z., Centeno, J., Charlet, A., Garcia, H., Hoffman, C., Safaie, S., and Elwood, K.J., (2008) "Evaluation of Confined Masonry Guidelines for Earthquake-Resistant Housing", Confined Masonry Network, Earthquake Engineering Research Institute, http://www.confinedmasonry.org/?cat=1, 98 pages.
70. Elwood, K.J., and Moehle, J.P. (2002) "Discussion of: Seismic Evaluation of Column-to-Beam Strength Ratios in Reinforced Concrete Frames by K.L. Dooley and J.M. Bracci", *ACI Structural Journal*, American Concrete Institute, vol. 99, no. 5, pp. 710-712.

2. NON-REFEREED PUBLICATIONS

(a) Journals

(b) Conference Proceedings

71. Haukaas, T., Talachian, S., Elwood, K.J. (2009) “Probabilistic models for visual damage.” Proceedings of the ACES Workshop on Performance-based Earthquake Engineering, Corfu, Greece, July 5-7 (10 pages).
72. Mitchell, A., Elwood, K.J., Moehle, J.P., Wallace, J.W., Comartin, C., Heintz, J.A., Lehman, D.E., Matamoros, A. Moore, M.A., and Valley, M.T. (2006) “Improved Predictions of Seismic Performance of Existing Concrete Buildings – ASCE/SEI 41, Supplement No. 1” Second NEES-EDEFENSE Workshop on Collapse Simulation of Reinforced Concrete Building Structures, Kyoto, Japan, November 2006.
73. Zhu, L., Elwood, K.J., and Haukaas, T., (2005) “Assessment of Expected Failure Mode for Reinforced Concrete Columns”, First NEES-EDEFENSE Workshop on Collapse Simulation of Reinforced Concrete Building Structures, Berkeley CA, 14 pages.
74. Wallace, J. W., Massone, L. M., Orakcal, K., and Elwood, K.J., (2005) “Lateral Load Responses and Axial Load Capacity pf RC Walls and Wall Piers”, First NEES-EDEFENSE Workshop on Collapse Simulation of Reinforced Concrete Building Structures, Berkeley CA, 14 pages.
75. Elwood, K.J., and Moehle, J.P., (2003) "Shear and Axial Failure model for Reinforced Concrete Frames Subjected to Earthquakes", Fourth US-Japan Workshop on Performance-Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures, Toba, Japan, PEER report 2003. Berkeley, Calif.: Pacific Earthquake Engineering Research Center, University of California, 14 pages.
76. Elwood, K.J., and Moehle, J.P., (2002) "Shake Table Tests on the Gravity Load Collapse of Reinforced Concrete Frames", Third US-Japan Workshop on Performance-Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures, Seattle, WA, PEER report 2002/02. Berkeley, Calif.: Pacific Earthquake Engineering Research Center, University of California, 14 pages.
77. Moehle, J.P., Elwood, K.J., and Sezen, H., (2000) "Shear Failure and Axial Load Collapse of Existing Reinforced Concrete Columns", Second US-Japan Workshop on Performance-Based Design Methodology for Reinforced Concrete Building Structures, Sapporo, Japan, PEER report 2000/10, Berkeley: Pacific Earthquake Engineering Research Center, University of California, 14 pages.
78. Moehle, J.P., Sezen, H., and Elwood, K.J., (2000) “Response of Reinforced Concrete Buildings Lacking Details for Ductile Response”, Proceedings of International Workshop on Annual Commemoration of Chi-Chi Earthquake, September 18-20, 2000, National Center for Research on Earthquake Engineering, Taipei, Taiwan, 14 pages.
79. Moehle, J.P., Lynn, A.C., Elwood, K.J., and Sezen, H., (1999) "Gravity Load Collapse of Reinforced Concrete Frames during Earthquakes", First US-Japan Workshop on Performance-Based Design Methodology for Reinforced Concrete Building Structures, Maui, Hawaii, PEER report 1999/10, Berkeley: Pacific Earthquake Engineering Research Center, University of California, 15 pages.
80. Elwood, K.J., and Wen, Y.K., (1998) “Performance Evaluation of a Dual-Level Design”, Proceedings of the NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994, CUREE, Richmond, California, 8 pages.

(c) Other

81. Ingham, J. M. (Ed.) (2011) "Assessment and Improvement of Unreinforced Masonry Buildings for Earthquake Resistance", New Zealand Society for Earthquake Engineering, Wellington, New Zealand (113 pages).
- I was a contributing author on this guideline document.

82. * Elwood, K.J. and Eberhard, M.O., (2006) "Effective Stiffness of Reinforced Concrete Columns", *PEER Research Digest 2006-1*, 4 pages.
83. Elwood, K. J. and Moehle, J.P., (2003) "Shake Table Tests and Analytical Studies on the Gravity Load Collapse of Reinforced Concrete Frames", PEER report 2003/01, Berkeley: Pacific Earthquake Engineering Research Center, University of California, 346 pages.
84. * Elwood, K. J., (2002) "Shake Table Tests and Analytical Studies on the Gravity Load Collapse of Reinforced Concrete Frames", Ph.D. Dissertation, Department of Civil and Environmental Engineering, University of California, Berkeley, 419 pages.
85. Sezen, H., Elwood, K.J., Whittaker, A.S., Mosalam, K.M., Wallace, J.W., and Stanton, J.F., (2000) "Structural Engineering Reconnaissance of the August 17, 1999, Kocaeli (Izmit), Turkey, Earthquake", PEER report 2000/09, Berkeley: Pacific Earthquake Engineering Research Center, University of California, 154 pages.
86. Elwood, K.J., and Wen, Y.K. (1995) "Performance Evaluation of a Dual Level Design Using 1994 Northridge Earthquake Records", Structural Research Series Report No. 601: Department of Civil Engineering, University of Illinois at Urbana-Champaign. 117 pages.

3. BOOKS - AUTHORED

4. BOOKS - EDITED

5. CHAPTERS IN BOOKS

6. PATENTS

7. SPECIAL COPYRIGHTS

8. ARTISTIC WORKS, PERFORMANCES, DESIGNS

9. OTHER WORKS

87. Elwood, K.J. Video recording of "Behaviour and Modeling of Existing Reinforced Concrete Columns" Earthquake Engineering Research Institute (EERI) Technical Seminar, Los Angeles, California, February 2006 (Video sold by EERI for $45).
88. Elwood, K.J. "Earthquake Engineering Research Facility, UBC", Canadian Association of Earthquake Engineering Newsletter, Summer 2004.

10. WORK SUBMITTED

Russell, A.P., Elwood, K.J., and Ingham, J.M. "General Force-Displacement Response of URM Walls with Flanges", submitted to ASCE Structures Journal, January 2011.

11. WORK IN PROGRESS (*including degree of completion*)

1. Adebar, P., Elwood, K.J., Guan, Z., "Displacement-based Design of Low-rise Buildings with Elastic Flexible Diaphragms", plan to submit to *Earthquake Spectra*, (90% complete)
2. Yang, T., Elwood, K.J. "Force control for hybrid testing", plan to submit to *Earthquake Engineering and Structural Dynamics* (90% complete).
3. LaRose, K.E., and Elwood, K.J., "Performance of shear stud clusters in precast bridge deck panels", plan to submit to *Journal of Bridge Engineering*, ASCE (60% complete)
4. Haukaas, T., Yang, T., Elwood, K.J., "Comparison of approaches for performance-based earthquake engineering", plan to submit to *Earthquake Spectra* (50% complete).
5. Talachian, S., Haukaas, T., Elwood, K.J. "Probabilistic models for visual damage and repair cost." Journal not decided (30% complete).
6. Russell, A., Ingham, J., Elwood, K.J. "Seismic Assessment Procedure for URM Buildings", plan to submit to Earthquake Spectra (20% complete)
7. Dizhur, D., Ingham, J., Elwood K.J. "Seismic response of CFRP NSM URM walls when subjected to combined in-plane and out-of-plane walls", plan to submit to ASCE Journal of Structural Engineering (20 % complete)