

## YAHYA C. (GINO) KURAMA, PH.D., P.E.

Associate Professor and Director of Graduate Studies  
Civil Engineering and Geological Sciences  
156 Fitzpatrick Hall  
University of Notre Dame  
Notre Dame, Indiana 46556

Tel: (574) 631-8377  
Fax: (574) 631-9236  
E-mail: [ykurama@nd.edu](mailto:ykurama@nd.edu)  
URL: [www.nd.edu/~concrete](http://www.nd.edu/~concrete)

### 1. REFEREED PUBLICATIONS

#### Refereed Journal Publications (Published, In-Print, or Accepted)

1. Kurama, Y. and Shen,<sup>1</sup> Q., "Seismic Response Evaluation of Unbonded Post-Tensioned Hybrid Coupled Wall Structures," *Earthquake Engineering and Structural Dynamics*. (in print)
2. Kim,<sup>2</sup> S.-P. and Kurama, Y., "An Alternative Pushover Analysis Method to Estimate Seismic Displacement Demands," *Engineering Structures*, Elsevier, Vol. 30, 2008, pp. 3793-3807.
3. Morgen,<sup>1</sup> B. and Kurama, Y., "Characterization of Two Friction Interfaces for Use in Seismic Damper Applications," *Materials and Structures*. (in print; online publication completed on February 6, 2008)
4. Morgen,<sup>1</sup> B. and Kurama, Y., "Seismic Response Evaluation of Post-Tensioned Precast Concrete Frames with Friction Dampers," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 134, No. 1, January 2008, pp. 132-145.
5. Morgen,<sup>1</sup> B. and Kurama, Y., "Seismic Design of Friction-Damped Precast Concrete Frame Structures," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 133, No. 11, November 2007, pp. 1501-1511.
6. Weldon,<sup>1</sup> B. and Kurama, Y., "Nonlinear Behavior of Precast Concrete Coupling Beams," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 133, No. 11, November 2007, pp. 1571-1581.
7. Kurama, Y., Weldon,<sup>1</sup> B., and Shen,<sup>1</sup> Q., "Experimental Evaluation of Post-Tensioned Hybrid Coupled Wall Subassemblages," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 132, No. 7, July 2006, pp. 1017-1029.
8. Shen,<sup>1</sup> Q., Kurama, Y., and Weldon,<sup>1</sup> B., "Seismic Design and Analytical Modeling of Post-Tensioned Hybrid Coupled Wall Subassemblages," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 132, No. 7, July 2006, pp. 1030-1040.
9. Kurama, Y., "Seismic Design of Partially Post-Tensioned Precast Concrete Walls," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 50, No. 4, July-August 2005, pp. 100-125.
10. Farrow,<sup>1</sup> K. and Kurama, Y., "SDOF Displacement Ductility Demands Based on Smooth Ground Motion Response Spectra," *Engineering Structures*, Elsevier, Vol. 26, No. 12, October 2004, pp. 1713-1733.

---

<sup>1</sup> Graduate student

<sup>2</sup> Post-doctoral research associate

11. Morgen,<sup>1</sup> B. and Kurama, Y., "A Friction Damper for Post-Tensioned Precast Concrete Moment Frames," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 49, No. 4, July-August 2004, pp. 112-133.
12. Kurama, Y. and Shen,<sup>1</sup> Q., "Post-Tensioned Hybrid Coupled Walls Under Lateral Loads," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 130, No. 2, February 2004, pp. 297-309.
13. Kurama, Y. and Farrow,<sup>1</sup> K., "Ground Motion Scaling Methods for Different Site Conditions and Structure Characteristics," *Earthquake Engineering and Structural Dynamics*, Vol. 32, No. 15, December 2003, pp. 2425-2450.
14. Farrow,<sup>1</sup> K. and Kurama, Y., "SDOF Demand Index Relationships for Performance-Based Seismic Design," *Earthquake Spectra*, Earthquake Engineering Research Institute, Vol. 19, No. 4, November 2003, pp. 799-838.
15. Jiang,<sup>1</sup> H., Kurama, Y., and Fanella, D., "WWW-Based Virtual Laboratories for Reinforced Concrete Education," *Computer Applications in Engineering Education*, Vol. 10, No. 4, February 2003, pp. 167-181.
16. Shen,<sup>1</sup> Q. and Kurama, Y., "Nonlinear Behavior of Post-Tensioned Hybrid Coupled Wall Subassemblages," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 128, No. 10, Oct. 2002, pp. 1290-1300.
17. Kurama, Y., "Hybrid Post-Tensioned Precast Concrete Walls for Use in Seismic Regions," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 47, No. 5, September-October 2002, pp. 36-59.
18. Kurama, Y., Sause, R., Pessiki, S., and Lu, L.W., "Seismic Response Evaluation of Unbonded Post-Tensioned Precast Walls," *ACI Structural Journal*, American Concrete Institute, Vol. 99, No. 5, September-October 2002, pp. 641-651.
19. Allen,<sup>1</sup> M. and Kurama, Y., "Design of Rectangular Openings in Precast Walls Under Combined Vertical and Lateral Loads," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 47, No. 2, March-April 2002, pp. 58-83.
20. Allen,<sup>1</sup> M. and Kurama, Y., "Design of Rectangular Openings in Precast Walls Under Vertical Loads," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 47, No. 1, January-February 2002, pp. 50-67.
21. Kurama, Y., "Simplified Seismic Design Approach for Friction-Damped Unbonded Post-Tensioned Precast Walls," *ACI Structural Journal*, American Concrete Institute, Vol. 98, No. 5, September-October 2001, pp. 705-716.
22. Kurama, Y., "Seismic Design of Unbonded Post-Tensioned Precast Walls with Supplemental Viscous Damping," *ACI Structural Journal*, American Concrete Institute, Vol. 97, No. 4, July-August 2000, pp. 648-658.
23. Kurama, Y., Sause, R., Pessiki, S., and Lu, L.W., "Lateral Load Behavior and Seismic Design of Unbonded Post-Tensioned Precast Concrete Walls," *ACI Structural Journal*, American Concrete Institute, Vol. 96, No. 4, July-August 1999, pp. 622-632.
24. Kurama, Y., Pessiki, S., Sause, R., and Lu, L.W., "Seismic Behavior and Design of Unbonded Post-Tensioned Precast Concrete Walls," *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 44, No. 3, May-June 1999, pp. 72-89.

#### **Refereed Journal Manuscripts (In Review)**

1. Walsh,<sup>1</sup> K. and Kurama, Y., "Behavior of Unbonded Post-Tensioning Mono-Strand/Anchorage Systems Under Monotonic Tensile Loading," *PCI Journal*, Precast/Prestressed Concrete Institute. (in review, July 2008)

2. Hua,<sup>1</sup> J. and Kurama, Y., Analytical Modeling of Medium-Rise RC Shear Walls," *ACI Structural Journal*, American Concrete Institute. (in review, July 2008)
3. Knaack,<sup>1</sup> A., Kurama, Y., Kirkner, D., "Compressive Strength Relationships for Concrete Under Elevated Temperatures," *ACI Materials Journal*, American Concrete Institute. (in review, September 2008)
4. Knaack,<sup>1</sup> A., Kurama, Y., Kirkner, D., "Stress-Strain Relationships for Concrete Under Elevated Temperatures," *ACI Materials Journal*, American Concrete Institute. (in review, December 2008)

### **Shorter Communications in Refereed Journals**

1. Kurama, Y., "EDITORIAL – Precast/Prestressed Concrete Structures: Special Issue," *Journal of Structural Engineering*, American Society of Civil Engineers, Vol. 133, No. 11, November 2007, pp. 1487-1488.

### **Refereed Special Publications**

1. Sause, R., Pessiki, S., Wu, S., Kurama, Y., "Modeling and Seismic Behavior of Non-Ductile Concrete Frame Structures and Retrofit Implications," in "*Seismic Rehabilitation of Concrete Structures*," ACI Special Publication, American Concrete Institute, SP-160, Farmington Hills, MI, 1996, pp. 231-253.

### **Refereed Conference Publications**

1. Weldon,<sup>1</sup> B. and Kurama. Y., "Post-Tensioned Precast Concrete Coupling Beam Systems," *8th U.S. National Conference on Earthquake Engineering*, San Francisco, CA, April 18-22, 2006, 10 pp.
2. Morgen,<sup>1</sup> B. and Kurama. Y., "Seismic Response Evaluation of Post-Tensioned Precast Concrete Frames with Friction Dampers," *8th U.S. National Conference on Earthquake Engineering*, San Francisco, CA, April 18-22, 2006, 10 pp.
3. Morgen,<sup>1</sup> B. and Kurama, Y., "A Friction Damper for Post-Tensioned Precast Concrete Beam-to-Column Joints," *13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, BC, Canada, August 1-6, 2004, 15 pp. (CD-ROM)
4. Kurama, Y., Weldon,<sup>1</sup> B., and Shen,<sup>1</sup> Q., "Experimental Evaluation of Unbonded Post-Tensioned Hybrid Coupled Wall Subassemblages," *13<sup>th</sup> World Conference on Earthquake Engin.*, Vancouver, BC, Canada, August 1-6, 2004, 15 pp. (CD-ROM)
5. Shen,<sup>1</sup> Q. and Kurama. Y., "Coupling of Concrete Walls Using Unbonded Post-Tensioning," *7th U.S. National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Boston, MA, 21-25 July, 2002, 12 pp. (CD-ROM)
6. Farrow,<sup>1</sup> K. and Kurama, Y., "Capacity-Demand Index Relationships for Performance-Based Seismic Design," *7th U.S. National Conference on Earthquake Engineering*, Boston, MA, 21-25 July, 2002, 12 pp. (CD-ROM)
7. Shen,<sup>1</sup> Q. and Kurama, Y., "Lateral Load Behavior of Unbonded Post-Tensioned Hybrid Coupled Walls," *6<sup>th</sup> ASCCS Conference on Steel and Concrete Composite Structures*, Los Angeles, CA, March 22-24, 2000, pp. 793-800.
8. Kurama, Y., Sause, R., Pessiki, S., and Lu, L.W., "Seismic Design of Unbonded Post-Tensioned Precast Concrete Walls," *Structural Engineers World Congress*, San Francisco, CA, July 19-23, 1998, 8 pp. (CD-ROM)

9. Kurama, Y., Sause, R., Pessiki, S., and Lu, L.W., "Seismic Behavior and Design of Unbonded Post-Tensioned Precast Concrete Walls," *Sixth U.S. National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Seattle, WA, May 31-June 4, 1998, 12 pp. (CD-ROM)
10. Sause, R., Pessiki, S., Kurama, Y., Wu, S., "Seismic Behavior and Retrofit Implications of Two Non-Ductile Concrete Frame Structures," *Fifth U.S. National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Chicago, IL, July 1994, Vol. 3, pp. 809-818.
11. Kurama, Y., Pessiki, S., Sause, R., Wu, S., "Seismic Behavior of Non-Ductile Concrete Frame Structures," *Structures Congress XII*, American Society of Civil Engineers, edited by N.C. Baker and B.J. Goodno, Atlanta, GA, April 1994, Vol. 2, pp. 1496-1501.

## 2. UNREFEREED PUBLICATIONS

### Workshop and Conference Publications

1. Smith,<sup>1</sup> B. and Kurama, Y., "Design of Hybrid Precast Concrete Walls for Seismic Regions," *ASCE Structures Congress*, American Society of Civil Engineers, Austin, Texas, April 30 - May 2, 2009. (accepted for oral presentation)
2. Walsh,<sup>1</sup> B. and Kurama, Y., "Behavior and Design of Anchorages for Unbonded PT Strands in Seismic Regions," *ASCE Structures Congress*, American Society of Civil Engineers, Austin, Texas, April 30 - May 2, 2009. (accepted for oral presentation)
3. Weldon,<sup>1</sup> B. and Kurama, Y., "Coupled RC Walls with Unbonded Post-Tensioned Precast Coupling Beams: Analytical Evaluation of Lateral Load Behavior," *ASCE Structures Congress*, American Society of Civil Engineers, Austin, Texas, April 30 - May 2, 2009. (accepted for oral presentation)
4. Knaack,<sup>1</sup> A., Kurama, Y., Kirkner, D., "Properties of Reinforced Concrete for Use in Fire-Design of Concrete Structures," *ASCE Structures Congress*, American Society of Civil Engineers, Austin, Texas, April 30 - May 2, 2009. (accepted for oral presentation)
5. Walsh,<sup>1</sup> B. and Kurama, Y., "Behavior and Design of Anchorages for Unbonded Post-Tensioning Strands in Seismic Regions," *ASCE Structures Congress*, American Society of Civil Engineers, Vancouver, Canada, April 24-26, 2008, 10 pp.
6. Weldon,<sup>1</sup> B. and Kurama, Y., "Unbonded Post-Tensioned Precast Concrete Coupling Beams: An Experimental Evaluation," *ASCE Structures Congress*, American Society of Civil Engineers, Long Beach, CA, May 16-19, 2007, 10 pp.
7. Morgen,<sup>1</sup> B. and Kurama, Y., "Seismic Design of Friction-Damped Precast Concrete Frame Structures," *ASCE Structures Congress*, American Society of Civil Eng., New York, NY, April 20-24, 2005, 12 pp.
8. Weldon,<sup>1</sup> B. and Kurama, Y., "Coupling of Concrete Walls Using Post-Tensioned Precast Concrete Beams," *ASCE Structures Congress*, American Society of Civil Engineers, New York, NY, April 20-24, 2005, 12 pp.
9. Morgen,<sup>1</sup> B. and Kurama, Y., "A Cast-Steel Friction Damper for Post-Tensioned Precast Concrete Frame Buildings," session on *Castings for Building*, *57<sup>th</sup> National Technical and Operating Conference & Workshop*, Steel Founders' Society of America, Chicago, IL, November 5-8, 2003, 16 pp. (invited paper and oral presentation)

10. Kurama, Y., "Performance-Based Seismic Design of Non-Emulative Precast Concrete Walls with Friction Dampers," *Second U.S.-Japan Workshop on Performance Based Seismic Design Methodology for Concrete Buildings*, Sapporo, Japan, September 12-13, 2000, 12 pp. (invited paper and oral presentation)
11. Kurama, Y. and Shen,<sup>1</sup> Q., "Seismic Design and Parametric Response Evaluation of Unbonded Post-Tensioned Hybrid Coupled Walls," *Sixth Joint Technical Coordinating Committee Meeting*, U.S.-Japan Cooperative Earthquake Research Program on Composite and Hybrid Structures, San Francisco, CA, August 1-3, 1999, 12 pp.
12. Kurama, Y., "Unbonded Post-Tensioned Precast Walls with Supplemental Viscous Damping," *International Workshop on Seismic Isolation, Energy Dissipation, and Control of Structures*, Guangzhou, China, May 6-8, 1999, pp. 213-220. (invited paper and oral presentation)
13. Kurama, Y., "Seismic Design and Parametric Response Evaluation of Unbonded Post-Tensioned Hybrid Coupled Walls," *Fifth Joint Technical Coordinating Committee Meeting*, U.S.-Japan Cooperative Earthquake Research Program on Composite and Hybrid Structures, Tokyo, Japan, October 5-7, 1998, 6 pp.

#### **Technical Research Reports**

1. Morgen,<sup>1</sup> B. and Kurama, Y., "Friction-Damped Unbonded Post-Tensioned Precast Concrete Moment Frame Structures for Seismic Regions," Structural Engineering Research Report #NDSE-07-01, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, March 2007.
2. Shen,<sup>1</sup> Q., Kurama, Y., and Weldon,<sup>1</sup> B., "Seismic Analysis, Behavior, and Design of Unbonded Post-Tensioned Hybrid Coupled Wall Structures," Structural Engineering Research Report #NDSE-06-02, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, December 2006.
3. May,<sup>1</sup> M. and Kurama, Y., "Experimental Evaluation of Unbonded Post-Tensioned Hybrid Coupled Wall Subassemblages," Structural Engineering Research Report #NDSE-06-01, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, April 2006.
4. Farrow,<sup>1</sup> K. and Kurama, Y., "Capacity-Demand Index Relationships for Performance-Based Seismic Design," Structural Engineering Research Report #NDSE-01-02, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, November 2001, 259 pp. (available for download at <http://www.nd.edu/~concrete>)
5. Allen,<sup>1</sup> M. and Kurama, Y., "Design of Rectangular Openings in Unbonded Post-Tensioned Precast Concrete Walls," Structural Engineering Research Report #NDSE-01-01, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, April 2001, 142 pp. (available for download at <http://www.nd.edu/~concrete>)
6. Kurama, Y., Sause, R., Pessiki, S., Lu, L.W., and El-Sheikh, M., "Seismic Design and Response Evaluation of Unbonded Post-Tensioned Precast Concrete Walls," Research Report No. EQ-97-01, Department of Civil and Environmental Engineering, Lehigh University, Bethlehem, PA, November 1997, 184 pp.

7. El-Sheikh, M., Sause, R., Pessiki, S., Lu, L.W., and Kurama, Y., "Seismic Analysis, Behavior, and Design of Unbonded Post-Tensioned Precast Frames," Research Report No. EQ-97-02, Department of Civil and Environmental Engineering, Lehigh University, Bethlehem, PA, November 1997, 316 pp.
8. Kurama, Y., Pessiki, S., Sause, R., Lu, L.W., and El-Sheikh, M., "Analytical Modeling and Lateral Load Behavior of Unbonded Post-Tensioned Precast Concrete Walls," Research Report No. EQ-96-02, Dept. of Civil and Environmental Engineering, Lehigh University, Bethlehem, PA, November 1996, 190 pp.
9. Kurama, Y., Sause, R., Pessiki, S., Wu, S., and Snyder, S., "Seismic Behavior, Performance, and Retrofit of Non-Ductile Reinforced Concrete Frame Structures," Research Report No. EQ-96-01, Department of Civil and Environmental Engineering, Lehigh University, Bethlehem, PA, June 1996, 67 pp.

### **3. OTHER PUBLICATIONS**

1. Kurama, Y., Morgen,<sup>1</sup> B., and Shen,<sup>1</sup> Q., "Stress-Strain Behavior of Turkish Reinforcing Bars from the November 12, 1999 Duzce Earthquake," Technical Note, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, February 2000, 12 pp. (available for download at <http://www.nd.edu/~concrete>)
2. "Simplified Code and Commentary for Building Steelwork Design (BS 5950: Part 1: 1990)," authored on behalf of the Steel Construction Institute, Ascot, Great Britain, 1991, 50 pp.

### **4. LECTURES AND ADDRESSES**

#### **Invited Lectures**

1. Kurama, Y., "Coupling of RC Walls Using Unbonded Post-Tensioning: Applications in Hybrid and Precast Construction," Department of Civil Engineering, University of Minnesota, MN, November 17, 2006.
2. Kurama, Y., "Friction-Damped Precast Concrete Frame Structures – An Analytical and Experimental Evaluation on Seismic Design and Behavior," School of Civil Engineering, Purdue University, IN, April 11, 2006.
3. Kurama, Y., "Coupling of RC Walls Using Unbonded Post-Tensioning: Applications in Hybrid and Precast Construction," Department of Civil and Environmental Engineering, University of Michigan, MI, February 11, 2005.
4. Kurama, Y., "Coupling of RC Walls Using Unbonded Post-Tensioning: Applications in Hybrid Construction," Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, IL, March 17, 2003.
5. Kurama, Y., "Unbonded Post-Tensioning: Seismic Applications in Concrete Structural Walls," Tokyo Institute of Technology, Yokohama, Japan, August 16, 2000.
6. Kurama, Y., "Virtual Laboratories for Reinforced Concrete Education," 2000 Professors' Seminar, Engineering and Economics of Reinforced Concrete Buildings, Portland Cement Association, Skokie, IL, August 7-9, 2000.

7. Kurama, Y., "Seismic Behavior and Design of Unbonded Post-Tensioned Precast Concrete Walls," Department of Civil and Environmental Engineering, Duke University, Durham, NC, April 3, 1998.

### **Other Technical Presentations**

1. Knaack,<sup>1</sup> A., Kurama, Y., and Kirkner, D. "Compressive Stress-Strain Relationships for Concrete Under Elevated Temperatures," Session on Material Science Modeling as a Solution to Concrete Problems, *Fall Convention*, American Concrete Institute, New Orleans, LA, November 8-12, 2009. (accepted for oral presentation)
2. Smith,<sup>1</sup> B. and Kurama, Y., "Design of Hybrid Precast Concrete Walls for Seismic Regions," Session on Developing Innovative Solutions for Design of Precast/Prestressed Concrete Structures, *Spring Convention*, American Concrete Institute, San Antonio, TX, March 15-19, 2009. (accepted for oral presentation)
3. Knaack,<sup>1</sup> A., Kurama, Y., and Kirkner, D. "Compressive Strength and Elastic Modulus Relationships for Concrete Under Elevated Temperatures," Session on Advances in the Fire Design of Concrete Structures, *Fall Convention*, American Concrete Institute, St. Louis, MO, November 2-6, 2008. (oral presentation)
4. Smith,<sup>1</sup> B. and Kurama, Y., "Behavior and Design of Hybrid Precast Concrete Walls for Seismic Regions," *Annual Convention*, Precast/Prestressed Concrete Institute, Orlando, FL, October 5-8, 2008. (oral presentation)
5. Knaack,<sup>1</sup> A., Kurama, Y., and Kirkner, D. "Compressive Strength Relationships for Concrete Under Elevated Temperatures," *Annual Convention*, Portland Cement Association, Chicago, IL, August 25-26, 2008. (oral presentation)
6. Smith,<sup>1</sup> B. and Kurama, Y., "Hybrid Precast Wall Systems for Seismic Regions," *Committee Days*, Precast/Prestressed Concrete Institute, Chicago, IL, April 24-27, 2008. (oral presentation)
7. Walsh,<sup>1</sup> B. and Kurama, Y., "Behavior and Design of Anchorages for Unbonded Post-Tensioning Strands in Seismic Regions," *Spring Convention*, American Concrete Institute, Los Angeles, California, March 29-April 3, 2008. (invited oral presentation)
8. Walsh, K. and Kurama,<sup>1</sup> Y., "Design of Anchorages for Unbonded Post-Tensioning Strands in Seismic Regions," *Annual Convention*, Precast/Prestressed Concrete Institute, Phoenix, Arizona, October 23, 2007. (invited oral presentation)
9. Weldon,<sup>1</sup> B. and Kurama, Y., "Post-Tensioned Precast Coupling Beams for Seismic Regions," *Spring Convention*, American Concrete Institute, Atlanta, Georgia, April 23, 2007. (invited oral presentation)
10. Kurama, Y., "Anchorages for Unbonded PT Strands in Seismic Regions," *Committee Days*, Precast/Prestressed Concrete Institute, Chicago, IL, March 31, 2007. (oral presentation)
11. Weldon,<sup>1</sup> B. and Kurama, Y., "Coupled Precast Prestressed Concrete Structural Wall Systems," *Fall Convention*, American Concrete Institute, Denver, Colorado, November 6, 2006. (invited oral presentation)
12. Kurama, Y. and Weldon,<sup>1</sup> B., "Coupled Precast Prestressed Concrete Structural Wall Systems," *Annual Convention*, Precast/Prestressed Concrete Institute, Grapevine, Texas, October 24, 2006. (invited oral presentation)
13. Weldon,<sup>1</sup> B. and Kurama, Y., "Post-Tensioned Precast Concrete Coupling Beam Systems," *Committee Days*, Precast/Prestressed Concrete Institute, Chicago, IL, April 29, 2006. (oral presentation)

14. Kurama, Y. and Morgen,<sup>1</sup> B., "Seismic Behavior of Friction-Damped Post-Tensioned Precast Concrete Frames," *Annual Convention*, Precast/Prestressed Concrete Institute, Palm Springs, California, Oct. 16-19, 2005. (invited oral presentation)
15. Weldon,<sup>1</sup> B. and Kurama, Y., "Post-Tensioned Precast Concrete Coupling Beams for RC Walls," *Annual Meeting*, Earthquake Engineering Research Institute, Ixtapa, Mexico, February 2-6, 2005. (poster presentation with travel fellowship)
16. Weldon,<sup>1</sup> B. and Kurama, Y., "Coupled Precast Concrete Walls for Seismic Regions: An Overview of Recent and Ongoing Research," *Fall Convention*, American Concrete Institute, San Francisco, CA, October 24-28, 2004. (invited abstract and oral presentation)
17. Weldon,<sup>1</sup> B. and Kurama, Y., "Coupled Precast Concrete Walls for Seismic Regions: An Overview of Recent and Ongoing Research," *Annual Convention*, Precast/Prestressed Concrete Institute, Atlanta, Georgia, Oct. 17-20, 2004. (invited oral presentation)
18. Weldon,<sup>1</sup> B. and Kurama, Y., "Precast Concrete Coupled Wall Systems," *Committee Days*, Precast/Prestressed Concrete Inst., Chicago, IL, April 24, 2004. (oral presentation)
19. Morgen,<sup>1</sup> B. and Kurama, Y., "Development of a Friction Damper for Post-Tensioned Precast Concrete Beam-to-Column Joints", *Annual Meeting*, Earthquake Engineering Research Institute, Los Angeles, California, February 5-8, 2004.
20. Morgen,<sup>1</sup> B. and Kurama, Y., "A Friction Damper for Post-Tensioned Precast Beam-Column Joints," *Annual Convention*, Precast/Prestressed Concrete Inst., Orlando, Florida, Oct. 18, 2003. (oral presentation)
21. Weldon,<sup>1</sup> B., Kurama, Y., and Shen, Q., "Coupling of Concrete Walls Using Post-Tensioning," *2<sup>nd</sup> Annual PTI Post-Tensioning Technical Conference and Exhibition*, Post-Tensioning Institute, Huntington Beach, California, May 18-20, 2003. (invited abstract and oral presentation)
22. Kurama, Y., "Partially Post-Tensioned Precast Concrete Walls," session on *Jointed Precast Systems for Low and High Seismic Zones*, *Spring Convention*, American Concrete Institute, Vancouver, Canada, Mar. 30-Apr. 3, 2003. (invited abstract and oral presentation)
23. Morgen,<sup>1</sup> B. and Kurama, Y., "Development of a Friction Damper for Post-Tensioned Precast Beam-to-Column Joints", *Spring Convention*, American Concrete Institute, Vancouver, Canada, Mar. 30-Apr. 3, 2003. (oral presentation)
24. Morgen,<sup>1</sup> B. and Kurama, Y., "Development of a Friction Damper for Post-tensioned Precast Concrete Beam-to-Column Joints", *Annual Meeting*, Earthquake Engineering Research Institute, Portland, Oregon, February 5-8, 2003.
25. Kurama, Y., Shen,<sup>1</sup> Q., and May,<sup>1</sup> M., "Nonlinear Behavior of Unbonded Post-Tensioned Hybrid Coupling Beams," *Fall Convention*, American Concrete Institute, Dallas, TX, Oct. 28-Nov. 2, 2001. (abstract and oral presentation)
26. Kurama, Y., Shen,<sup>1</sup> Q., and May,<sup>1</sup> M., "Unbonded Post-Tensioned Hybrid Coupled Walls," *Technical Coordinating Committee Meeting*, Cooperative Earthquake Research Prog. on Composite and Hybrid Struct., Berkeley, CA, June 24-25, 2001. (oral presentation)
27. Kurama, Y., "Research at Notre Dame to Mitigate Shakes and Quakes: Concrete Seismic Structural Systems," *ASM International*, Materials Information Society, University of Notre Dame, Notre Dame, IN, October 24, 2000. (oral presentation)

28. Allen,<sup>1</sup> M. and Kurama, Y., "Design of Large Openings in Unbonded Post-Tensioned Precast Concrete Walls," *Annual Convention*, Precast/Prestressed Concrete Institute, Orlando, FL, September 23-27, 2000. (invited oral presentation)
29. Morgen,<sup>1</sup> B. and Kurama, Y., "Supplemental Energy Dissipation in Unbonded, Post-Tensioned, Precast Concrete Structures", *Annual Meeting*, Earthquake Engineering Research Institute, St. Louis, Missouri, May 31 – June 3, 2000.
30. Kurama, Y. and Allen,<sup>1</sup> M., "Design of Large Openings in Unbonded Post-Tensioned Precast Concrete Walls," *Committee Days*, Precast/Prestressed Concrete Institute, Chicago, IL, April 14-15, 2000. (oral presentation)
31. Kurama, Y. and Allen,<sup>1</sup> M., "Design of Large Openings in Unbonded Post-Tensioned Precast Concrete Walls," *Annual Convention*, Precast/Prestressed Concrete Inst., Palm Springs, CA, October 17-20, 1999. (invited oral presentation)
32. Kurama, Y. and Allen,<sup>1</sup> M., "Design of Large Openings in Unbonded Post-Tensioned Precast Concrete Walls," *Committee Days*, Precast/Prestressed Concrete Institute, Chicago, IL, April 16-17, 1999. (oral presentation)
33. Kurama, Y. and Shen,<sup>1</sup> Q., "Seismic Design and Parametric Response Evaluation of Unbonded Post-Tensioned Hybrid Coupled Walls," *Spring Convention*, American Concrete Institute, Chicago, IL, March 14-18, 1999. (oral presentation)
34. Kurama, Y., Sause, R., Pessiki, S., Wu, S., Snyder, S., "Seismic Performance and Retrofit of Non-Ductile Concrete Frame Structures," *Building and Fire Research Laboratory Technical Symposia Series - Guidelines, Policies, and Methodologies for Improving the Seismic Performance of Buildings*, National Institute of Standards and Technology, Gaithersburg, MD, April 1995. (invited abstract and oral presentation)

### **Education and Outreach Lectures and Presentations**

1. Kurama, Y., "The Graduate School Application Process: What Really Matters?" Interdisciplinary Studies in Tsunami Impacts and Mitigation (ISTIM) REU Program, Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, July 16, 2008; July 16, 2007; July 17, 2006.
2. Kurama, Y., "Shakes and Quakes: A Structural Engineer's View," Introduction to Engineering Program, University of Notre Dame, Notre Dame, IN, June 14 and July 15, 2008; June 20 and July 11, 2007; June 28 and July 19, 2006; July 2 and July 16, 2004; June 27 and July 8, 2003; and June 28 and July 12, 2002.
3. Kurama, Y., "Multi-Faceted U.S.-Japan Program in Natural Hazard Mitigation," Orientation for 2003 Summer Program in Japan, National Science Foundation, Arlington, VA, April 11-12, 2003.
4. Kurama, Y., "Multi-Faceted U.S.-Japan Program in Natural Hazard Mitigation," Orientation for 2002 Summer Programs in Japan, Korea, and Taiwan, National Science Foundation, Arlington, VA, April 11-12, 2002.
5. Kurama, Y., Christenson,<sup>1</sup> R., Correa,<sup>1</sup> T., Mei,<sup>1</sup> G., and Morgen,<sup>1</sup> B., "Shakes and Quakes - An Engineer's View: Part 2," Andrew Jackson Middle School, South Bend, IN, March 14, 2001.
6. Kurama, Y., Myers, M.,<sup>3</sup> and Christenson,<sup>1</sup> R., "Shakes and Quakes - An Engineer's View: Part 1," Andrew Jackson Middle School, South Bend, IN, February 28, 2001.

---

<sup>3</sup> Undergraduate student participant

### **Departmental Presentations**

1. Kurama, Y., "Undergraduate Activities in Reinforced Concrete," a presentation to the CE/GEOS Advisory Council, Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, September 15, 2006.
2. Kurama, Y., "Undergraduate Research and Graduate School," Undergraduate Research Forum, Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, October 9, 2003.
3. Kurama, Y., "Research at Notre Dame to Mitigate Shakes and Quakes: Concrete Seismic Structural Systems," Junior Parents Weekend, Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, Feb. 15, 2003; Feb. 17, 2001.
4. Kurama, Y., "Seismic Behavior and Design of Concrete Structures: An Overview of Notre Dame Research," External Review, Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN, March 25, 2002.

### **Other Notre Dame Presentations**

1. Kurama, Y., "Unbonded Post-Tensioned Precast Concrete Structures – An Introduction for Use in Seismic Regions," School of Architecture, University of Notre Dame, Notre Dame, IN, November 5, 2007. (invited lecture)