

**BRIAN J. SMITH**

Assistant Teaching Professor  
University of Notre Dame

Department of Civil & Environmental Engineering & Earth Sciences  
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**EDUCATION**

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**University of Notre Dame, Notre Dame, IN**

**Ph.D. in Civil Engineering, January 2013**

Dissertation: "Design, Analysis, and Experimental Evaluation of Hybrid Precast Concrete Shear Walls for Seismic Regions"

Advisor: Dr. Yahya Kurama, Professor

GPA: 3.91

**Georgia Institute of Technology, Atlanta, GA**

**M.S. in Civil Engineering, August 2002**

Thesis: "Critical Assessment of Potential and Limitations of Applications of Shape Memory Alloys"

Advisor: Dr. Reginald DesRoches, Professor and Chair

GPA: 3.48

**University of Notre Dame, Notre Dame, IN**

**B.S. in Civil Engineering, May 2001**

Concentration: Structures

GPA: 3.35

**PROFESSIONAL REGISTRATION**

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**Licensed Professional Engineer (P.E.) in California**

**(2004-Present)**

**WORK HISTORY**

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**Assistant Teaching Professor**

**8/2012-Present**

**University of Notre Dame**

**Notre Dame, IN**

**Primary Appointment: Dept. of Civil & Environmental Engineering & Earth Sciences**

**Concurrent Appointment: School of Architecture**

Currently holds the position of assistant teaching professor in the Department of Civil and Environmental Engineering and Earth Sciences with a concurrent appointment in the School of Architecture. Primary responsibilities include teaching multiple sections of the first-year engineering course through the College of Engineering, teaching upper-division undergraduate civil and structural engineering design classes, and teaching upper-division structural design courses to undergraduate and graduate architecture students.

**Research Engineer**

**7/2013-12/2016**

**University of Notre Dame**

**Notre Dame, IN**

**Kinetic Structures Laboratory**

Investigated the behavior of an origami-inspired foldable rigid wall shelter comprised of sandwich panels using fiber-reinforced polymer faces and a foam core. Primarily responsible for the design of the experimental program (featuring half-scaled full-assembly tests, component tests, and material tests) including the test setup and loading systems, implementation of the data acquisition and signal

conditioning systems, as well as interpretation of the analytical and measured results. In addition, investigated the behavior of cold bent steel plate splice connections for accelerated construction of steel bridges. Contributed to the development of the experimental test setup, data acquisition system, material testing, and interpretation of the analytical and measured results.

**Graduate Research Assistant**

**8/2007-12/2012**

**University of Notre Dame**

**Notre Dame, IN**

Investigated the behavior of hybrid precast concrete shear walls (a new type of self-centering lateral force resisting system) under seismic loading, with the goal of gathering the required analytical and experimental evidence to validate the system per ACI ITG-5.1 (2007) and gain code-approval as a special reinforced concrete shear wall per ACI-318. Developed and published seismic design methodology and procedure for hybrid wall systems. Designed, instrumented, and constructed test setup and test specimens. Conducted six large-scale experimental tests subjected to fully-reversed cyclic lateral loading. Developed validated fiber-element analytical models used for nonlinear time-history analyses as well as validated finite-element and linear-elastic effective stiffness models used as design tools.

**Graduate Student Instructor**

**8/2011-5/2012**

**University of Notre Dame**

**Notre Dame, IN**

Accepted into the First Year Teaching Apprentice Program (FYETAP), a mentored teaching experience for graduate students in preparation for careers as faculty members. As part of this program, graduate student instructors work alongside tenured-track faculty members and undergraduate student assistants to instruct first-year engineering students in the Introduction to Engineering Systems course. Responsibilities include developing course material for classroom lectures, instructing first-year students during learning center (i.e., laboratory) sections, and participating in regular meetings with faculty, both weekly to discuss course planning and monthly to discuss engineering education topics. Based on a positive performance review by supervising faculty during the Fall 2011 semester, received invitation to continue as a graduate student instructor during the Spring 2012 semester.

**Graduate Teaching Assistant**

**8/2007-12/2009**

**University of Notre Dame**

**Notre Dame, IN**

Held the position of teaching assistant over five semesters for three different undergraduate classes: Civil Engineering Materials and Lab, Reinforced Concrete Design, and Structural Steel Design. Responsibilities included leading classroom lectures on a substitution basis, holding weekly small group homework review sessions, instructing during laboratory sessions, as well as grading exams, homework, papers and project presentations. Awarded the Dondanville Family Award for Outstanding Teaching by a Graduate Student in 2008, as voted by a committee of undergraduate civil engineering students.

**Associate Engineer III**

**9/2005-8/2007**

**Wiss, Janney, Elstner (WJE) Associates, Inc.**

**Emeryville, CA**

Held position of Associate Engineer III at WJE Associates, an architectural, engineering, and material science consulting firm where the primary focus is to provide practical, innovative, and technically sound solutions to structural problems in existing buildings. Contributed to a variety of projects, including evaluations and investigations of structural failures (e.g. I-880/I-80 Overpass Bridge Collapse in Oakland, CA), preparation of repair construction documents for fire damaged residential and commercial structures (e.g. McHenry Village Shopping Center in Modesto, CA), seismic evaluations of existing structures (e.g. U.S. Embassy Residential Facilities in Istanbul, Turkey) and retrofit/rehabilitation designs for deficient structures (e.g. Main Cellhouse on Alcatraz Island in San Francisco, CA). Member of the design and construction administration team for the seismic retrofitting of the State Bar Building in San Francisco, CA, a project which received the Certificate of Merit for Best Retrofit/Alteration given by the Structural Engineers Association of Northern California (SEAONC) and the Presidential Award of Excellence in Structural Engineering given by the American Institute of Steel Construction (AISC).

**Project Engineer** 8/2004-9/2005  
**Assistant Engineer** 12/2002-8/2004  
**Madsen, Kneppers & Associates (MKA), Inc.** Walnut Creek, CA

Worked as an assistant and project engineer for MKA Inc., a multidisciplinary construction consulting firm that provides creative solutions to the construction, legal and insurance industries. Performed visual, non-destructive and destructive investigations of structural and architectural failures caused by defective design, construction, and materials (e.g. Niebaum-Coppola Winery in Rutherford, CA). Conducted numerous evaluations of buildings damaged by construction vibrations, earthquakes, explosions, fires, hurricanes, water intrusions, and wind (e.g. various Post-Hurricane Katrina projects). Provided various types of litigation support services for construction defect claims on single-family and multi-family residential developments, including visual field observations, destructive testing, code analysis, and mediation attendance (e.g. Ranchwood Homes in Los Banos, CA).

**Graduate Research Assistant** 8/2001-8/2002  
**Georgia Institute of Technology** Atlanta, GA

Investigated the potential seismic applications of shape memory alloys, a type of smart material. Conducted specimen tests of several different alloy compositions subjected to various loading conditions. Developed in-depth literature review of documented seismic applications of shape memory alloys.

**Graduate Engineering Intern** 5/2001-8/2001  
**Thornton Tomasetti Group** Trumbull, CT

Held position of engineering intern at Thornton Tomasetti Group, an engineering company that provides complete multidisciplinary design services. Assisted in multiple projects, including the design of a new auditorium at Yale University, the site development of public high school athletic fields in New York City, NY, and the forensic investigation of deteriorating exterior pedestrian walkways at a multi-family residential building.

**Undergraduate Research Assistant** 6/2000-5/2001  
**University of Notre Dame** Notre Dame, IN

Assisted in research involving the development, testing, and analysis of the performance of friction dampers in post-tensioned precast concrete beam-column connections while subjected to earthquake loading. Responsible for the design of the steel test frame, the creation of the fabrication drawings, and assisted in the design of the post-tensioned concrete specimens.

## **COURSES TAUGHT**

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All courses are presented with total student enrollment and course instructor feedback scores (completed by students) for “overall composite score” and “overall effectiveness of teaching,” respectively.

### **2016-2017 Academic Year**

ARCH-40511	Structural Design for Architects	35 students	(4.6/5.0 and 4.7/5.0)
ARCH-40521	Applied Structural Systems	35 students	(--/5.0 and --/5.0)
ARCH-60521	Structures II: Concrete	7 students	(--/5.0 and --/5.0)
ARCH-70531	Structures III: Wood and Steel	9 students	(4.6/5.0 and 4.7/5.0)
CE-40280	Structural Steel Design	43 students	(4.6/5.0 and 4.7/5.0)
EG-10111-11	Introduction to Engineering Systems I	42 students	(4.5/5.0 and 4.7/5.0)
EG-10112-10	Introduction to Engineering Systems II	46 students	(--/5.0 and --/5.0)
EG-10112-11	Introduction to Engineering Systems II	38 students	(--/5.0 and --/5.0)

**2015-2016 Academic Year**

ARCH-40511	Structural Design for Architects	33 students	(4.5/5.0 and 4.5/5.0)
ARCH-40521	Applied Structural Systems	33 students	(4.5/5.0 and 4.6/5.0)
ARCH-60521	Structures II: Concrete	8 students	(4.5/5.0 and 4.6/5.0)
ARCH-70531	Structures III: Wood and Steel	11 students	(4.1/5.0 and 4.1/5.0)
CE-40620	Transportation	37 students	(3.4/5.0 and 3.5/5.0)
EG-10111-05	Introduction to Engineering Systems I	46 students	(4.5/5.0 and 4.6/5.0)
EG-10112-02	Introduction to Engineering Systems II	47 students	(4.3/5.0 and 4.3/5.0)
EG-10112-03	Introduction to Engineering Systems II	47 students	(4.5/5.0 and 4.6/5.0)

**2014-2015 Academic Year**

ARCH-40511	Structural Design for Architects	32 students	(4.8/5.0 and 5.0/5.0)
ARCH-40521	Applied Structural Systems	32 students	(4.3/5.0 and 4.5/5.0)
ARCH-60521	Structures II: Concrete	11 students	(4.1/5.0 and 4.1/5.0)
ARCH-70531	Structures III: Wood and Steel	4 students	(5.0/5.0 and 5.0/5.0)
CE-40280	Structural Steel Design	36 students	(4.2/5.0 and 4.1/5.0)
CE-40620	Transportation	46 students	(4.2/5.0 and 4.2/5.0)
EG-10111-07	Introduction to Engineering Systems I	46 students	(4.4/5.0 and 4.5/5.0)

**2013-2014 Academic Year**

ARCH-40511	Structural Design for Architects	28 students	(4.1/5.0 and 4.1/5.0)
ARCH-40521	Applied Structural Systems	28 students	(4.4/5.0 and 4.5/5.0)
ARCH-60521	Structures II: Concrete	6 students	(3.6/5.0 and 3.2/5.0)
ARCH-70531	Structures III: Wood and Steel	12 students	(4.4/5.0 and 4.6/5.0)
CE-40280	Structural Steel Design	27 students	(4.4/5.0 and 4.5/5.0)
CE-40620	Transportation	37 students	(4.5/5.0 and 4.7/5.0)
EG-10111-02	Introduction to Engineering Systems I	246 students	(---/5.0 and ---/5.0)
EG-11111-14	Introduction to Engineering Systems I	32 students	(4.1/5.0 and 4.3/5.0)

**2012-2013 Academic Year**

ARCH-40511	Structural Design for Architects	48 students	(4.4/5.0 and 4.5/5.0)
ARCH-70531	Structures III: Wood and Steel	7 students	(4.4/5.0 and 4.5/5.0)
CE-40620	Transportation	43 students	(4.0/5.0 and 4.0/5.0)
CE-40702	Senior Design	7 students	(4.6/5.0 and 4.5/5.0)
EG-10111-02	Introduction to Engineering Systems I	235 students	(3.0/5.0 and 2.6/5.0)
EG-11111-02	Introduction to Engineering Systems I	33 students	(4.1/5.0 and 4.1/5.0)

**2011-2012 Academic Year**

EG-11111-07	Introduction to Engineering Systems I	32 students	(4.1/5.0 and 4.0/5.0)
EG-11111-08	Introduction to Engineering Systems I	33 students	(4.1/5.0 and 4.2/5.0)
EG-11112-07	Introduction to Engineering Systems II	31 students	(4.5/5.0 and 4.6/5.0)
EG-11112-08	Introduction to Engineering Systems II	30 students	(4.3/5.0 and 4.3/5.0)

**AWARDS & HONORS**

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**Teaching**

- First-Year Engineering Teaching Apprentice Program (FYETAP) Fellowship (2011-2012)
- Dondanville Family Award for Outstanding Teaching by a Graduate Student (2008)

### Research

- Charles C. Zollman Award from the PCI Journal (2015)  
- Awarded for contribution in advancing the state-of-the-art of precast/prestressed concrete
- PCI Annual Convention and Exhibition Travel Fellowship (2011)
- EERI US/Canadian National Earthquake Engineering Conference Travel Grant (2010)
- Univ. of Notre Dame - Dept. of Civil Engineering Travel Grant (2008-2010)

### Professional

- Seismic Retrofit of the State Bar Building of California, 180 Howard Street, San Francisco, CA  
- Member of Project Design and Construction Administration Team for WJE Associates, Inc.  
- Project Received AISC Presidential Award for Excellence in Structural Engineering (2008)  
- Project Received SEAONC Certificate of Merit for Best Retrofit/Alteration (2007)

### Academic

- Univ. of Notre Dame Lilly Fellowship (2007-2011)
- Georgia Institute of Technology President's Fellowship (2001-2002)
- Univ. of Notre Dame Dean's List (1999-2001)
- Univ. of Notre Dame Dailey Memorial Scholarship (1998-1999)
- Univ. of Notre Dame Alumni Club of New Haven, CT Scholarship (1997-1998)

## REFEREED PUBLICATIONS

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### Refereed Journal Publications

- [1] Smith, B., Kerr, E., and Goodrich, V. (2017) "Understanding Departmental Retention, Attrition, and Addition for Engineering Majors," *International Journal of Engineering Education*, (Publication In-Preparation).
- [2] Gerbo, E., Wang, Y., Tumbeva, M., Thrall, A., Smith, B., and Zoli, T. (2017) "Behavior of an Adjustable Bolted Steel Plate Connection during Field Installation," *ASCE Journal of Structural Engineering*, (In-Review).
- [3] Gerbo, E., Thrall, A., Smith, B., and Zoli, T. (2016) "Full-Field Measurement of Residual Strains in Cold-Bent Steel Plates," *Journal of Constructional Steel Research*, Vol. 127, pp. 187-203.
- [4] Ballard, Z., Gerbo, E., Thrall, A., and Smith, B. (2016) "Behavior of Sandwich Panels in a Deployable Structure," *ASCE Journal of Structural Engineering*, Vol. 142, No. 10, 04016073.
- [5] Ballard, Z., Thrall, A., and Smith, B. (2016) "Behavior of Folding Sandwich Panel Structures: Impact of Ground Conditions, Anchorage, and Panel Warping," *Construction and Building Materials*, Vol. 112, No. 1, pp. 1110-1122.
- [6] Ballard, Z., Thrall, A., Smith, B., and Casias, C. (2016) "Impact of Hinged Connectors on Sandwich Panel Behavior," *ASCE Journal of Structural Engineering*, Vol. 142, No. 3, 06015005.
- [7] Smith, B., Kurama, Y., and McGinnis, M. (2015) "Perforated Hybrid Precast Shear Walls for Seismic Regions," *ACI Structural Journal*, Vol. 112, No. 3, pp. 359-370.
- [8] Smith, B., and Kurama, Y. (2014) "Seismic Design Guidelines for Solid and Perforated Hybrid Precast Concrete Shear Walls," *PCI Journal*, Vol. 59, No. 3, pp. 43-59.
- [9] Smith, B., Kurama, Y., and McGinnis, M. (2013) "Behavior of Precast Concrete Shear Walls for Seismic Regions: Comparison of Hybrid and Emulative Specimens," *ASCE Journal of Structural Engineering*, Vol. 139, No. 11, pp. 1917-1927.
- [10] Smith, B., Kurama, Y., and McGinnis, M. (2011) "Design and Measured Behavior of a Hybrid Precast Concrete Wall Specimen for Seismic Regions," *ASCE Journal of Structural Engineering*, Vol. 137, No. 10, pp. 1052-1062.

- [11] DesRoches, R., and Smith, B. (2004) "Shape Memory Alloys in Seismic Resistant Design and Retrofit: A Critical Assessment of the Potential and Limitations," *Journal of Earthquake Engineering*, Vol. 8, No. 3, pp. 415-429.

#### **Refereed Conference Publications (Paper and Oral Presentation)**

- [1] Ballard, Z., Thrall, A., and Smith, B. (2015) "Parametric Study of the Effect of Hinged Connectors on the Behavior of Origami-Inspired Structures Comprised of Sandwich Panels," *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference*, Boston, MA, 2-5 August 2015, 8 pp.
- [2] Smith, B., and Kurama, Y. (2012) "Validated Seismic Design Guidelines for Solid and Perforated Hybrid Precast Shear Walls," *Proceedings of the PCI Annual Convention and Exhibition*, Nashville, TN, 29 September - 3 October 2012, 14 pp.
- [3] Smith, B., Kurama, Y., and McGinnis, M. (2011) "Design and Measured Behavior of a Perforated Hybrid Precast Concrete Shear Wall for Seismic Regions," *Proceedings of the PCI Annual Convention and Exhibition*, Salt Lake City, UT, 22-26 October 2011, 12 pp.
- [4] Smith, B., and Kurama, Y. (2010) "Seismic Behavior of a Hybrid Precast Concrete Wall Specimen: Measured Response versus Design Predictions," *Proceedings of the 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering*, Toronto, ON, Canada, 25-29 July 2010, 10 pp.
- [5] Smith, B., McGinnis, M., and Kurama, Y. (2010) "Full-Field Lateral Response Investigation of Hybrid Precast Concrete Shear Walls," *Proceedings of the 3<sup>rd</sup> International Congress and fib Exhibition Incorporating the PCI Annual Convention and Bridge Conference*, Washington D.C., 29 May - 2 June 2010, 12 pp.

#### **NON-REFEREED PUBLICATIONS**

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##### **Non-Refereed Conference Publications (Paper and Oral/Poster Presentation)**

- [1] Smith, B., and Kurama, Y. (2013) "Seismic Displacement Demands for Hybrid Precast Concrete Shear Walls," *Proceedings of the ASCE Structures Congress*, Pittsburgh, PA, 1-4 May 2013, 12 pp. (Oral Presentation).
- [2] Smith, B., Kurama, Y., and McGinnis, M. (2012) "Comparison of Solid and Perforated Precast Concrete Shear Walls for Seismic Regions," *Proceedings of the ASCE Structures Congress*, Chicago, IL, 29-31 March 2012, 12 pp. (Oral Presentation).
- [3] McGinnis, M., Smith, B., Holloman, M., Lisk, M., Kurama, Y., and O'Donnell, A. (2012) "3-D Digital Image Correlation: An Underused Asset for Structural Testing," *Proceedings of the ASCE Structures Congress*, Chicago, IL, 29-31 March 2012. 10 pp. (Oral Presentation).
- [4] Smith, B., Kurama, Y., and McGinnis, M. (2012) "Hybrid Precast Concrete Shear Walls for Seismic Regions: Solid and Perforated Walls," *Proceedings of the 9<sup>th</sup> International Conference on Urban Earthquake Engineering and 4<sup>th</sup> Asia Conference on Earthquake Engineering*, Tokyo, Japan, 6-8 March 2012, 10 pp. (Oral Presentation).
- [5] Smith, B., Kurama, Y., and McGinnis, M. (2011) "Comparison of Hybrid and Emulative Precast Concrete Shear Walls for Seismic Regions," *Proceedings of the ASCE Structures Congress*, Las Vegas, NV, 14-16 April 2011, 12 pp. (Poster Presentation).
- [6] Smith, B., and Kurama, Y. (2010) "Analytical Model Validation of a Hybrid Precast Concrete Wall for Seismic Regions," *Proceedings of the ASCE Structures Congress*, Orlando, FL, 12-14 May 2010, 11 pp. (Oral Presentation).
- [7] Smith, B., and Kurama, Y. (2009) "Design of Hybrid Precast Concrete Walls for Seismic Regions," *Proceedings of the ASCE Structures Congress*, Austin, TX, 30 April - 2 May 2009, 10 pp. (Oral Presentation).

## OTHER PUBLICATIONS & PRESENTATIONS

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### Research Reports

- [1] Smith, B., Kurama, Y., and McGinnis, M. (2012) "Hybrid Precast Wall Systems for Seismic Regions," *University of Notre Dame*, Research Report No. NDSE-2012-01.
- [2] Smith, B., and Kurama, Y. (2012) "Seismic Design Guidelines for Special Hybrid Precast Concrete Shear Walls," *University of Notre Dame*, Research Report No. NDSE-2012-02.

### Other Technical Presentations

- [1] Smith, B., Kurama, Y., and McGinnis, M. (2012) "Hybrid Precast Wall Systems for Seismic Regions," *PCI Annual Convention and Exhibition*, PCI Funded Research: Part I, Nashville, TN, 29 September - 3 October 2012. (Oral Presentation).
- [2] Smith, B., Kurama, Y., and McGinnis, M. (2011) "Hybrid Precast Concrete Shear Walls for Seismic Regions," *PCI Annual Convention and Exhibition*, R&D Session II: Research Updates, Salt Lake City, UT, 22-26 October 2011. (Oral Presentation).
- [3] Smith, B., Kurama, Y., and McGinnis, M. (2011) "Hybrid Precast Concrete Shear Walls for Seismic Regions," *PCI Committee Days*, Seismic and R&D Committee Meetings, Chicago, IL, 24-26 March 2011. (Oral Presentations).
- [4] McGinnis, M., Smith, B., and Kurama, Y. (2010) "Base Panel to Foundation Joint Response of Hybrid Precast Walls: Full Field Measurements and FEM Simulations," *ACI Fall Convention*, Seismic Performance of Concrete Joints and Connections, Pittsburgh, PA, 24-28 October 2010. (Oral Presentation).
- [5] Smith, B., and Kurama, Y. (2010) "Hybrid Precast Wall Systems for Seismic Regions," *PCI Committee Days*, Seismic and R&D Committee Meetings, Chicago, IL, 24-26 September 2010. (Oral Presentations).
- [6] Smith, B., and Kurama, Y. (2010) "Experimental Evaluation of Hybrid Precast Concrete Walls for Seismic Regions," *PCI Annual Convention and National Bridge Conference*, Precast Concrete R&D Projects: Part II, Washington D.C., 29 May - 2 June 2010. (Oral Presentation).
- [7] Smith, B., and Kurama, Y. (2009) "Behavior and Design of Hybrid Precast Concrete Walls for Seismic Regions," *PCI Annual Convention and National Bridge Conference*, Seismic Design and Research Issues: Developing Innovative Solutions for Design and Construction of Precast/Prestressed Concrete Construction Systems, San Antonio, TX, 5-8 October, 2009. (Oral Presentation).
- [8] Smith, B., and Kurama, Y. (2009) "Hybrid Precast Wall Systems for Seismic Regions," *PCI Committee Days*, Seismic and R&D Committee Meetings, Chicago, IL, 23-25 April 2009. (Oral Presentations).
- [9] Smith, B., and Kurama, Y. (2009) "Design of Hybrid Precast Concrete Walls for Seismic Regions," *ACI Spring Convention*, Developing Innovative Solutions for Design of Precast/Prestressed Concrete Structures, San Antonio, TX, 15-19 March 2009. (Oral Presentation).
- [10] Smith, B., and Kurama, Y. (2008) "Behavior and Design of Hybrid Precast Concrete Walls for Seismic Regions," *PCI Annual Convention and Exhibition*, Seismic Design and Research Issues: Developing Innovative Solutions for Design and Construction of Precast/Prestressed Concrete Construction Systems, Salt Lake City, UT, 22-26 October 2011. (Oral Presentation).
- [11] Smith, B., and Kurama, Y. (2008) "Hybrid Precast Wall Systems for Seismic Regions," *PCI Committee Days*, R&D Committee Meeting, Chicago, IL, 24-27 April 2008. (Oral Presentation).

## PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

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- American Association of State Highway and Transportation Officials (2016-Present)
- American Institute of Steel Construction (2013-Present)
- Tau Beta Pi - Univ. of Notre Dame Chapter (2012-Present)
- Precast/Prestressed Concrete Institute (2009-Present)
- American Society of Civil Engineers (2001-2001, 2007-Present)
- Earthquake Engineering Research Institute (2001-2002, 2007-Present)

## SERVICE ACTIVITIES

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### Departmental Committees

- CEEES Resiliency and Sustainability Minor Committee - Member (2016-Present)
- CEEES Undergraduate First Year Engineering Committee - Chair and Member (2015-Present)
- CEEES Undergraduate Education / Curriculum Committee - Member (2015-Present)

### Professional Committees

- Transportation Research Board - University Representative (2013-Present)
- ACI 550 Committee - Reviewer for ACI ITG-5.2: *Requirements for Design of a Special Unbonded Post-Tensioned Precast Shear Wall Satisfying ACI ITG-5.1 and Commentary* (2013-2015)

### Outreach and Mentoring

- Notre Dame Sophomore Mentor Program - Professional Mentor (2015-2016)
- Building Bridges Mentoring Program - Faculty Mentor (2012-2013)

### Academic Journals

- Structures - Journal Reviewer (2017-Present)
- Construction and Building Materials - Journal Reviewer (2016-Present)
- Engineering Structures - Journal Reviewer (2016-Present)
- Materials and Design - Journal Reviewer (2016-Present)
- Advances in Structural Engineering - Journal Reviewer (2015-Present)
- ASCE Journal of Structural Engineering - Journal Reviewer (2008-Present)

### Undergraduate and Graduate Student Organizations

- AISC Student Steel Bridge Competition - Advisor for Connection Design (2014-2015)
- CE-GEOS Graduate Student Seminar Series - Co-Founder (2009-2011)
- Earthquake Engineering Research Institute - Notre Dame Chapter Co-President (2009-2011)

## REFERENCES

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