

CURRICULUM VITA

JAMES A SWANSON

Associate Professor
Department of Civil and Environmental Engineering
University of Cincinnati
Cincinnati, OH 45221-0071
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EDUCATION

1999	Ph.D.	Civil and Environmental Engineering	Georgia Institute of Technology
1996	M.S.	Civil and Environmental Engineering	University of Pittsburgh
1994	B.S.	Engineering, <i>Summa Cum Laude</i>	University of Pittsburgh

PROFESSIONAL EXPERIENCE

9/2005 - Present	Associate Professor	University of Cincinnati
9/1999 - 8/2005	Assistant Professor	University of Cincinnati
9/1996 - 8/1999	Research / Teaching Assistant	Georgia Institute of Technology
5/1995 - 9/1995	Design Engineer	HDR Engineering, Inc.
1/1994 - 8/1996	Research / Teaching Assistant	University of Pittsburgh
5/1993 - 8/1993	Construction Inspector	Pennsylvania DOT

HONORS AND SCHOLARLY AWARDS

- Outstanding Junior Faculty Teaching Award, CEE Advisory Board, 2004
- Professional Accomplishment Award, Engineers and Scientists of Cincinnati, 2002
- Selected for Faculty Advisor Reward, American Society of Civil Engineers, 2001 - 2002
- Advisor of the Year, 2001, University of Cincinnati - Student Activities Board
- Professor of the Year, 2000/01, University of Cincinnati - College of Engineering
- Professor of the Quarter, Fall 2000, University of Cincinnati - College of Engineering
- Honor Roll Professor, 2000, University of Cincinnati - College of Engineering
- President's Fellow, 1996-1999, Georgia Institute of Technology
- Outstanding Teaching Assistant, 1995, University of Pittsburgh

TEACHING AND RESEARCH INTERESTS

Behavior of steel structures, behavior of bolted partial restraint and partial strength moment connections, behavior of structural fasteners, high performance steel, and the interaction between bridge decks and their supporting superstructure.

PEER-REVIEWED JOURNAL ARTICLES († indicates a student)

1. Wang[†], X., Swanson, J. A., Helmicki, A. J., and Hunt, V. J., "Development of Static Response Based Objective Functions for Finite Element Modeling of Bridges," Submitted to *Journal of Bridge Engineering*, ASCE, Accepted for Publication, Dec. 2005
2. Wang[†], X., Swanson, J. A., Helmicki, A. J., and Hunt, V. J., "Development of Dynamic Response Based Objective Functions for Finite Element Modeling of Bridges," Submitted to *Journal of Bridge Engineering*, ASCE, Accepted for Publication, Dec. 2005
3. Swanson, J. A., and Gao[†], X., "Strength Determination of Angle Connection Components," Submitted to *Engineering Journal*, American Institute of Steel Construction, Accepted for Publication, Oct. 2003
4. Kayser[†], C. R., Swanson, J. A., and Linzell, D. G., "Fatigue Characteristics of HPS-485W (70W) Bolted Splice Connections," *Journal of Bridge Engineering*, ASCE, Accepted for Publication, June 2005
5. Kayser[†], C. R., Swanson, J. A., and Linzell, D. G., "Characterization of the Material Properties of HPS-485W (70W) TMCP for Bridge Girder Applications," *Journal of Bridge Engineering*, ASCE, Jan., 2006, Vol. 11, Num 1, Pgs 99-108
6. Wang[†], X., Kangas[†], S. J., Swanson, J. A., Helmicki, A. J., Hunt, V. J., "Dynamic Characterization of Slab-on-Steel-Stringer Bridges," *Materials Evaluation*, American Society for Nondestructive Testing, Oct. 2005, Vol. 63, No. 10, Pgs. 1039-1045
7. Choo[†], T., Linzell, D. G., Lee[†], J., and Swanson, J. A., "Response of a Continuous, Skewed, High Performance Steel, Semi-Integral Abutment Bridge During Deck Placement," *Journal of Constructional Steel Research*, Elsevier, May 2005, Vol. 61, Num. 5, Pgs. 567-586
8. Eder[†], R.W., Miller, R.A., Baseheart, T.M., and Swanson, J. A., "Testing of 50 Year Old Prestressed Concrete Bridge Beams from Five Mile Road: Project A," *PCI Journal*, Precast / Prestressed Concrete Institute, May/June 2005, Vol. 50, No. 3, Pgs. 90-95
9. Wang[†], X., Kangas[†], S. J., Padur[†], D. S., Liu[†], L., Swanson, J. A., Helmicki, A. J., Hunt, V. J., "Overview of a Modal Based Condition Assessment Procedure," *Journal of Bridge Engineering*, ASCE, Jul/Aug 2005, Vol. 10, Num. 4, Pgs. 460-467
10. Wu[†], Z., Mirmiran, A., and Swanson, J. A., "Fatigue Behavior of Prestressed FRP Tubular Bridge Deck," *Transportation Research Record No. 1892 - Design of Structures*, Pgs. 246-255, 2004
11. Li[†], Z., Swanson, J. A., Helmicki, A. J., Hunt, V. J., "Modal Contribution Coefficients in Bridge Condition Evaluation," *Journal of Bridge Engineering*, ASCE, Mar/Apr 2004, Vol. 10, Num. 2, Pgs. 169-178
12. Amrine[†], J. J. and Swanson, J. A. "Effects of Variable Pretension on Bolted Connection Behavior," *Engineering Journal*, American Institute of Steel Construction, 3rd Quarter, 2004

13. Mangelsdorf, C. P., Baker, T. H., and Swanson, J. A., "Predicting Deflections in Concrete-Filled Grid Deck Panels," *Transportation Research Record No. 1814 – Design of Structures*, Pgs. 17-24, 2002
14. Swanson, J. A., "Ultimate Strength Prying Models for Bolted T-stub Connections," *Engineering Journal*, Pgs. 136-147, AISC, 3rd Quarter 2002, Vol. 39, No. 3
15. Swanson, J. A., Kokan[†], D., and Leon, R. T., "Advanced Finite Element Modeling of Bolted T-stub Connection Components," *Journal of Constructional Steel Research*, Elsevier Publishing, 2002, Vol. 58, Pgs. 1015-1031
16. Swanson, J. A., and Leon, R. T., "Stiffness Modeling of Bolted T-stub Connections," *Journal of Structural Engineering*, ASCE, May 2001, Vol. 127, Num. 5, Pgs. 498-505
17. Swanson, J. A., and Leon, R. T., "Bolted Steel Connections: Tests on T-stub Components," *Journal of Structural Engineering*, ASCE, Jan. 2000, Vol. 126, Num. 1, Pgs. 50-56

ARTICLES SUBMITTED TO PEER-REVIEWED JOURNALS († indicates a student)

1. Yuan[†], Q., Swanson, J. A., and Rassati, G. A., "Investigation of Hole Making Practices In the Fabrication of Structural Steel," Submitted to the *Engineering Journal*, American Institute of Steel Construction, Nov. 2004

CONFERENCE PROCEEDINGS († indicates a student)

1. Sexton[†], R., Koganti[†], S., Helmicki, A. J., Hunt, V. J., and Swanson, J. A., "Aspects of Health Monitoring for Cable Stay Bridges," NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
2. Ruth[†], N., Kangas[†], S. J. Mittal[†], S., Helmicki, A. J., Swanson, J. A., and Hunt, V. J., "Field Testing and Analysis of 40 Steel Stringer Bridges," NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
3. Hunt, V. J., Helmicki, A. J., and Swanson, J. A., "Instrumentation and Monitoring of the U.S. Grant Bridge," Proceedings: NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
4. Jambotkar[†], O., Hunt, V. J., Helmicki, A. J., and Swanson, J. A., "Investigation of Lateral Distribution Factors for Bridge Rating," Proceedings: NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
5. Kayser[†], C. R., Amrine[†], J. J., and Swanson, J. A., "Use of In-Class Streaming of Material in Engineering," PEER REVIEWED, Abstract Accepted, American Society of Engineering Education Conference to be held in Portland, OR, in June, 2005
6. Swanson, J. A., Miller, R. A., and Engle, R., "A Summary of the PIC-22 Fast-Track Bridge Reconstruction Project," PEER REVIEWED, FHWA Accelerated Construction Conference to be held in San Antonio, TX, Dec., 2004.

7. Kangas[†], S. J., Wang[†], X., Padur[†], D., Li[†], Z., Lui, L., Helmicki, A. J., Swanson, J. A., and Hunt, V. J., "Field Test-Based Calibration of Bridge Finite Element Models for Condition Assessment," NDE/NDT for Highways and Bridges, American Society for Nondestructive Testing, Pittsburgh, PA, Oct. 15-17, 2003
8. Swanson, J. A., and Linzell, D. G., "Field Verification of Construction Procedures for Skewed Steel Bridges Through Monitoring of a HPS Bridge, Research in Progress," American Society of Civil Engineers Structures Congress, Seattle, WA, May 29-31, 2003
9. Padur[†], D. S., Wang[†], X., Türer, A., Swanson, J. A., Helmicki, A. J., Hunt V. J., "Non Destructive Evaluation/Testing Methods – 3D Finite Element Modeling of Bridges," NDE/NDT for Highways and Bridges, American Society for Nondestructive Testing, Cincinnati, OH, Sept 10-13, 2002
10. Baseheart, T. M., Miller, R. A., Bowers, M. T., Ioannides, A., Swanson, J. A., and Eckart, R., "Teaching Strength of Materials Using Web-Based Streaming Video and Interactive Video Technologies," Proceedings of the 2002 American Society for Engineering Education Annual Conference & Exposition, American Society for Engineering Education, Montréal, Québec , Canada, June 16-19, 2002
11. Leon, R. T., Swanson, J. A., and Barluenga, G., "Modelizaciôn del Comportamiento Sísmico de Uniones Atornilladas," 2ndo Congreso Iberoamericano de Ingenieria Sismica, (Second Iberoamerican Congress on Earthquake Engineering), Madrid, Oct. 16-19, 2001
12. Swanson, J. A. and Gao[†], X., "Strength Determination of Heavy Clip-Angle Connection Components," Connections in Steel Structures IV, Roanoke, VA, Oct 22-25, 2000
13. Leon, R. T. and Swanson, J. A., "Cyclic Modeling of T-stub Bolted Connections," Steel Structures in Seismic Areas Conference, Montreal, Canada, Aug 21-24, 2000
14. Leon, R. T., and Swanson, J. A., "Tests on Steel T-stub Connections," 12th World Conference for Earthquake Engineering, Auckland, New Zealand, Jan. 30 - Feb 4, 2000
15. Swanson, J. A., and Leon, R. T., "Bolted Connections in Moment-Resisting Frames," Proceedings of the Structural Engineers' World Congress, San Francisco, CA, July, 1998
16. Swanson, J. A., "T-stub Connection Tests," Proceedings of the Society for Experimental Mechanics, Spring Conference, Houston, TX, June, 1998

OTHER PUBLICATIONS

1. Yuan[†], Q., Swanson, J. A., and Rassati, G. A., "Investigation of Hole Making Practices in the Fabrication of Structural Steel," University of Cincinnati Research Report, Oct. 2004
2. Swanson, J. A. and Windau, J., "Rapid Rehabilitation," American Institute of Steel Construction's Modern Steel Construction, June, 2004
3. Amrine[†], J. and Swanson, J. A., "Effects of Variable Pretension on Bolted Connection Behavior," University of Cincinnati Research Report, Jan. 2003
4. Swanson, J. A., Leon, R. T., and Smallidge, J. M., "Tests on Bolted Connections: SAC Subtask 7.03," Structural Engineering, Engineering Mechanics and Materials Research Report No. SEMM 00-02, Feb 2000

5. Swanson, J. A., "Characterization of the Strength, Stiffness, and Ductility Behavior of T-stub Connections," Ph.D. Dissertation, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, August, 1999
6. Leon R. T., and Swanson, J. A., "Current Status of the T-stub Connection Program," SAC Steel Project Update No. 4, December, 1998
7. Swanson, J. A., "Stress Analysis of Half Filled Weldless Grids at Fatigue Loads," Master's Thesis, Department of Civil and Environmental Engineering, University of Pittsburgh, Pittsburgh, PA, August, 1996
8. Leon R. T., Swanson, J. A., and Smallidge, J. M., "SAC Steel Project - Subtask 7.03 - Results and Data CD," A CD-ROM that contains information and data from 48 T-stub component tests, 10 clip angle component tests, and 6 full-scale, beam-column, T-stub connection tests.
9. Swanson, J. A., "SAC Steel Project - Subtask 7.03," A world wide web site devoted to the SAC T-stub research conducted at the Georgia Institute of Technology

INVITED LECTURES

1. "Strength Determination of Heavy Clip-Angle Connection Components," *Connection in Steel Structures IV: Steel Connections in the New Millennium, Roanoke, VA, October, 2000*

CONFERENCE PRESENTATIONS († indicates a student, ‡ indicates person(s) delivering presentation)

1. Sexton^{†‡}, R., Koganti[†], S., Helmicki, A. J., Hunt, V. J., and Swanson, J. A., "Aspects of Health Monitoring for Cable Stay Bridges," NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
2. Ruth^{†‡}, N., Kangas^{†‡}, S. J. Mittal[†], S., Helmicki, A. J., Swanson, J. A., and Hunt, V. J., "Field Testing and Analysis of 40 Steel Stringer Bridges," NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
3. Hunt[‡], V. J., Helmicki, A. J., and Swanson, J. A., "Instrumentation and Monitoring of the U.S. Grant Bridge," Proceedings: NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
4. Jambotkar^{†‡}, O., Hunt, V. J., Helmicki, A. J., and Swanson, J. A., "Investigation of Lateral Distribution Factors for Bridge Rating," Proceedings: NDE/NDT for Highways and Bridges, ASNT, Columbus, OH, Oct 2005
5. James A. Swanson[‡], Richard A. Miller, and Richard Engle, "A Summary of the PIC-22 Fast-Track Bridge Reconstruction Project," FHWA Accelerated Construction Conference, San Antonio, TX, Dec., 2004.
6. Scott J. Kangas[†], Xiaoyi Wang[†], Divyachapan Padur[†], Zhengsheng Li[†], Lei Lui[†], Arthur J. Helmicki, James A. Swanson, and Victor J. Hunt, "Field Test-Based Calibration of Bridge Finite Element Models for Condition Assessment," NDE/NDT for Highways and Bridges, American Society for Nondestructive Testing, Pittsburgh, PA, Oct. 15-17, 2003

7. James A. Swanson[‡], Daniel G. Linzell, and Caroline R. Kayser[†], “Field Verification of Construction Procedures for Skewed Steel Bridges through Monitoring of a HPS Bridge,” American Society of Civil Engineers Structures Congress, Seattle, WA, May 29-31, 2003
8. “High Performance Steel Bridge Girders: Verification of Performance and Design Criteria,” Caroline R. Kayser[†], James A. Swanson[‡], and Daniel G. Linzell, *Steel Bridge Committee Meeting (A2C02), Transportation Research Board Meeting, Washington D.C., Jan. 13-16, 2003*
9. “Testing of 50 Year Old Prestressed Concrete Bridge Beams,” Rick W. Eder^{†‡}, Richard A. Miller, T. Michael Baseheart, and James A. Swanson, *Transportation Research Board Meeting, Washington D.C., Jan. 13-16, 2003*
10. “Teaching Strength of Materials Using Web-Based, Streaming Video, and Interactive Video Technologies,” T. Michael Baseheart[‡], Richard A. Miller, Mark T. Bowers, Anastasios Ioannides, James A. Swanson, and Roy Eckart, *2003 Arkansas Distance Education Conference, Fayetteville, Ar., Jan. 9-10, 2003.*
11. “Non Destructive Evaluation/Testing Methods – 3D Finite Element Modeling of Bridges,” Divyachapan S. Padur^{†‡}, Xiaoyi Wang^{†‡}, Ahmet Turer, James A. Swanson, Arthur J. Helmicki, Victor J. Hunt, *NDE/NDT for Highways and Bridges, American Society for Nondestructive Testing, Cincinnati, OH, Sept 10-13, 2002*
12. “Effects of Variable Pretension on Bolted Connection Behavior,” James A. Swanson[‡], *Research Council on Structural Connections Annual Meeting, Roanoke, VA June 27-28, 2002.*
13. “Teaching Strength of Materials Using Web-Based Streaming Video and Interactive Video Technologies,” T. Michael Baseheart[‡], Richard A. Miller, Mark T. Bowers, Anastasios Ioannides, James A. Swanson, and Roy Eckart, *American Society for Engineering Education Annual Conference & Exposition, Montréal, Québec , Canada, June 16-19, 2002*
14. “Effects of Variable Pretension on Bolted Connection Behavior,” James A Swanson[‡], *Metal Buildings Manufactures Association Research Symposium, San Antonio, TX, Feb. 2002*
15. “Predicting Deflections in Concrete Filled Grid Deck Panels,” Clark P. Mangelsdorf, Tod H. Baker, and James A. Swanson[‡], *Transportation Research Board Meeting, Washington D.C., Jan. 2002*
16. “Cyclic Modeling of T-stub Bolted Connections,” Roberto T. Leon and James A. Swanson[‡], *Steel Structures in Seismic Areas 2000 (STESSA), Montreal, Canada, Aug., 2000*
17. “T-stub Connection Tests,” James A Swanson[‡], *Society for Experimental Mechanics, Spring Conference, Houston, TX, June, 1998*

TEACHING AND RESEARCH GRANTS AND CONTRACTS

National Science Foundation

1. Participated as an REU group advisor with Anant Kukreti, June - July, 2003
2. Participated as an REU group advisor with Anant Kukreti, June - July, 2002
3. Participated as an REU group advisor with Anant Kukreti, June - July, 2001

Competitive Federal Projects

None

Other Projects

1. “Development of Degradation Rates for Various Ohio Bridge Types” Sep 2005 - Sep. 2008, Ohio Department of Transportation, A. J. Helmicki (34%), V. J. Hunt (33%), and J. A. Swanson (33%), \$173,535
2. “Evaluation of the Current Resistance Factors for Bolted Connection Strength,” July, 2005 - June 2007, Research Council on Structural Connections, G. A. Rassati (50%) and J. A. Swanson (50%)
3. “Instrumentation of the Ironton-Russell Bridge Phase I: Preliminary Analysis and Monitor Design,” Aug. 2004 - Nov. 2005, Ohio Department of Transportation, Federal Highway Administration, and Michael Baker Corp., A. J. Helmicki (34%), V. J. Hunt (33%), and J. A. Swanson (33%), \$241,807
4. “Load Testing of Fort Washington Way Bridges 22 and 23”, Mar. - Aug. 2004, Ohio Department of Transportation and Burgess and Niple, Inc., A. J. Helmicki (34%), V. J. Hunt (33%), and J. A. Swanson (33%), \$38,976
5. “EXTENSION: Objective Condition Assessment of Deteriorated or Damaged Bridges in Ohio,” Apr. 2004, Ohio Department of Transportation, A. J. Helmicki (34%), V. J. Hunt (33%) and J. A. Swanson (33%), \$8,890
6. “EXTENSION: Bridge Type Specific Management of Steel Stringer Bridges: Development of Field Calibrated Software Rating Tools and Statistical Bridge Database,” Apr. 2004, Ohio Department of Transportation, A. J. Helmicki (34%), V. J. Hunt (33%), J. A. Swanson (33%), \$21,161
7. “Evaluation of Hole Making Practices in the Fabrication of Steel Structures,” Sep. - Dec. 2003, American Institute of Steel Construction, J. A. Swanson (100%), \$20,491
8. “EXTENSION: Verification of Performance and Design Criteria for High Performance Steel Bridge Girders,” Aug. 2001 - Jan. 2005, Ohio Department of Transportation, Innovative Bridge Research and Construction Program – Federal Highway Administration, J. A. Swanson (100%), \$5,674
9. “Nondestructive Testing and Evaluation of Bridges: Development of Modal Test Calibrated Modeling and Rating Software Tools,” Oct. 2003 - Sep. 2004, American

- Society for Nondestructive Testing, A. J. Helmicki (50%) and J. A. Swanson (50%), \$30,000
10. "Preliminary Evaluation of Post-Production Heat Treating of HPS-70W Steel," June 2003 - May 2004, University of Cincinnati Research Council, J. A. Swanson (100%), \$4,820
 11. "Evaluation of the Effectiveness of Strategic Initiative 9 – Pilot Bridge Concepts – ODOT Project #03-05," Oct. 2002 - Oct. 2004, submitted to the Ohio Department of Transportation, R.A. Miller (75%) and J. A. Swanson (25%), \$231,096
 12. "Verification of Performance and Design Criteria for High Performance Steel Bridge Girders," Aug. 2001 - Jan. 2005, Ohio Department of Transportation, Innovative Bridge Research and Construction Program – Federal Highway Administration, J. A. Swanson (100%), \$172,485
 13. "Objective Condition Assessment of Deteriorated or Damaged Bridges in Ohio," Jan. 2001, Ohio Department of Transportation, A. J. Helmicki (34%), V. J. Hunt (33%) and J. A. Swanson (33%), \$189,235
 14. "Effects of Variable Pretension on Bolted Connection Behavior," March 2001, Research Council on Structural Connections, American Institute of Steel Construction, and Metal Building Manufacturer's Association, J. A. Swanson (100%), \$41,316
 15. "General Electric Learning Excellence Program," Jan - June, 2001, (Roy Eckart, PI) Participated as developer of material and instructor for web assisted teaching of Basic Strength of Materials
 16. "Field and Laboratory Tests and Analysis of Existing CR-79 Steel Truss Bridge in Delaware County Before and After Deck Replacement with FRP Panels - Equipment Supplement," January 2001, Fiber Reinforced Systems, J. A. Swanson (100%) \$25,962
 17. "Field Testing and Analysis of Composite Deck Panels," Oct. 2000, Hamilton County Engineer's Office, T. M. Baseheart (34%), R. A. Miller (33%), and J. A. Swanson (33%), \$101,007
 18. "Bridge Type Specific Management of Steel Stringer Bridges: Development of Field Calibrated Software Rating Tools and Statistical Bridge Database," April 2000, Ohio Department of Transportation, A. J. Helmicki (34%), V. J. Hunt (33%), J. A. Swanson (33%), \$367,000
 19. "Field and Laboratory Tests and Analysis of Existing CR-79 Steel Truss Bridge in Delaware County Before and After Deck Replacement with FRP Panels," April 2000, Delaware County Engineer's Office, J. A. Swanson (100%), \$113,406
 20. "Fastener Testing Equipment for Bolted Connection Research," April 2000, University of Cincinnati Research Council, J. A. Swanson (100%), \$4,285
 21. "State of the Art in Steel Structure Design" Nov. 1999, University of Cincinnati Faculty Development Council, J. A. Swanson (100%), \$1,687

PENDING TEACHING AND RESEARCH GRANTS AND CONTRACTS

National Science Foundation

None

Competitive Federal Projects

None

Other Projects

None

UNFUNDED TEACHING AND RESEARCH GRANTS AND CONTRACTS

National Science Foundation

1. "CAREER: Prestressed and Post-Tensioned Steel Girders for Bridge Applications," Submitted July 2004, National Science Foundation, J. A. Swanson (100%), \$559,559
2. "CAREER: Prestressed and Post-Tensioned Steel Girders for Bridge Applications," Submitted July 2003, National Science Foundation, J. A. Swanson (100%), \$500,000
3. "High Performance Composite Elastomer-Metal Beam-Column Connections for Steel Frames," Submitted Oct. 2002, National Science Foundation, J. A. Swanson (50%) and A. R. Kukreti (50%), \$449,285
4. "Using Streaming Media and Model-Based Simulations to Enhance Structural Steel Design Curriculums," Submitted May 2001, National Science Foundation, J. A. Swanson (100%), \$103,356
5. "Strength, Stiffness and Ductility Modeling of Bolted Clip-Angle Components," Oct. 2000, National Science Foundation, J. A. Swanson (100%), \$99,256
6. "CAREER: Development of an Alternative Bolted Moment Connection," Submitted July 2000, National Science Foundation, J. A. Swanson (100%), \$375,000

Competitive Federal Projects

None

Other Projects

1. "Verification of ODOT's Load Rating Analysis Programs for Culverts," Submitted July 2004, Ohio Department of Transportation, Corp., A. J. Helmicki (34%), V. J. Hunt (33%), and J. A. Swanson (33%), \$557,738
2. "Development of an Alternative Bolted Moment Connection for use in Lateral Force Resisting Systems," Submitted Feb 2004, American Institute of Steel Construction, J. A. Swanson (100%), \$120,000
3. "National Bridge Deck Testing and Development Center," Submitted June 2000, Preproposal submitted to the UC Office of Sponsored Programs for consideration for

- an Ohio Board of Regents Incentive Award, J. A. Swanson (34%), A. Mirmiran (33%), R. A. Miller (33%), \$496,255
4. "Characterization of the Strength, Stiffness, and Ductility of Clip-Angle Connections," Submitted April 2000, American Institute of Steel Construction, J. A. Swanson (100%), \$49,957
 5. "Ohio Department of Transportation Bridge Maintenance Manual," Submitted April 2000, Ohio Department of Transportation, J. A. Swanson (25%), M. Lenett (25%), R. A. Miller (25%), and A. Mirmiran (25%), \$178,133
 6. "Preliminary Fastener Testing for Reevaluation of the Current AISC Bolt Fracture Resistance Factor," Submitted Nov. 1999, University of Cincinnati - University Research Council, J. A. Swanson (100%), \$5,000

GRADUATE STUDENTS ADVISED (Thesis)

Ph.D. Students

2. Jennifer Leet June 2002 – Pres
1. Caroline Kayser Will Graduate June 2006, "High Performance Steel Bridge Girders: Performance and Design"
3. Xiaoyi Wang, Graduated June 2005, "Structural Condition Assessment of Steel Stringer Highway Bridges"

Master's Students

1. Jonathon Oltman Sep. 2005 - Pres Co-advising with T. M. Baseheart
2. Jaspal Saini Sep. 2004 - Pres
3. Saurabh Mittal Sep. 2004 - Pres
4. Yongbing Wang Sep. 2003 - Pres
5. Omkar Jambotkar Sep. 2003 - Pres
6. Sravan Kumar Sep. 2003 - Pres
7. Matthew Barber Sep. 2002 - Pres Co-advising with T. M. Baseheart
8. Andrew Spurgeon Sep. 2002 - Pres Student Dropped Out of School
9. Joshua Clough Sep. 2000 - Pres Student Dropped Out of School
10. Praveen Dass, Will Graduate Mar. 2006, "Evaluation of Multi-Linear Stiffness Model for T-Stub Connections Under Varying Fastener Pretension Levels"

11. Min Lin, Graduated Mar. 2005, "Verification of AASHTO-LRFD Live Load Distribution Factor Formulas for HPS Bridges"
12. Quanwei Yuan, Graduated Mar. 2005, "Investigation of Hole Making Practices in the Fabrication of Structural Steel," (1 paper submitted for publication)
13. Zhengsheng Li, Graduated Dec. 2003, "Investigation of Several Issues Related to 3D FEM Bridge Condition Evaluation," (1 paper published)
14. Eric Eder, Graduated Aug. 2003, "Testing of 50 Year Old Prestressed Concrete Bridge Beams and Field Testing and Analysis of Two Prestressed Concrete Bridges on Five Mile Road in Hamilton County After Deck Replacement with FRP Panels," (1 paper published)
15. Xiaojiang Gao, Graduated Aug. 2002, "Strength Determination of Heavy Clip-Angle Connections," (1 paper published)

GRADUATE STUDENTS ADVISED (Non-Thesis)

Full-Time M.S. Students

- | | | |
|----------------------|-----------------------|-----------------------------|
| 1. Erik Adkins | Sep. 2005 - Pres | |
| 2. Jonathan Demarco | Sep. 2005 - Pres | |
| 3. Owen Bower | Sep. 2005 - Pres | |
| 4. Courtney Brown | Sep. 2004 - Pres | |
| 5. Balram Gurung | Sep. 2004 - Pres | |
| 6. Brian Kosmac | Sep. 2004 - Pres | |
| 7. Dichuan Zhang | Sep. 2005 - Dec. 2006 | Transferred to U of Arizona |
| 8. Tony Geara | Sep. 2004 - June 2005 | Changed Majors |
| 9. Murali Ramani | Sep. 2003 - Sep. 2005 | Graduated 9/05 |
| 10. Jagamohan Swain | Sep. 2003 - Sep. 2005 | Graduated 9/05 |
| 11. Chengyi Wang | Sep. 2002 - Aug 2004 | Graduated 8/04 |
| 12. Craig Whitson | June 2003 - June 2004 | Changed Majors |
| 13. Jeffery Bolchalk | Sep. 2001 - June 2003 | Graduated 6/03 |

Part-Time M.S. Students

- | | | |
|------------------|------------------|--------------------|
| 1. Kevin Pendery | Sep. 2003 - Pres | |
| 2. Chris Hauke | Sep. 2000 - Pres | Will Graduate 3/06 |

ACADEMIC COMMITTEE SERVICE

Thesis Committees

Ph.D. Candidates

1.	Zhengquan Wang	CE	
2.	James Allen	CE	
3.	Scott Kangas	ECECS	
4.	Reiner Reising	CE	Graduated 3/03

M.S. Candidates

1.	Vinod Thimmapuram	CE	
2.	Madhan Kumar	CE	
3.	Sridar Sadasivan	CE	Graduated 8/04
4.	Lei Liu	ECECS	Graduated 8/04
5.	Divyachapan Padur	ECECS	Graduated 3/04
6.	Scott Kangas	ECECS	Graduated 12/03
7.	Matthew Bolduc	CE	Graduates 2/03
8.	Shiqiao Zhang	CE	Graduated 3/02
9.	Aashish Singhvi	CE	Graduated 8/00
10.	Weiguo Zhang	CE	Graduated 12/99

Ph.D. Examination Committees

1.	Amy Dimmerling	CE	Examined 10/05
2.	Jennifer Amrine	CE	Examined 10/04
3.	Zhengquan Wang	CE	Examined 10/04
4.	James Swindler	CE	Examined 10/04
5.	Caroline Kayser	CE	Examined 10/03
6.	Patrick Fortney	CE	Examined 10/03
7.	James Allen	CE	Examined 10/03
8.	Xiaoyi Wang	CE	Examined 10/02
9.	Olusegun Akomolede	CE	Examined 10/02
10.	Robert Zuehlke	CE	Examined 10/02
11.	Reiner Reising	CE	Examined 10/00
12.	Yutian Shao	CE	Examined 10/00

Coordinate oral examination of numerous non-thesis masters' candidates

SUMMARY OF COURSES TAUGHT AND DEVELOPED

	Number	Title	Hrs	Qtr/Year	Size	Rating
7 th Year	CEE 101	CEE Freshmen Seminar	1.0	Winter 06		
	CEE 688	Matrix Analysis of Structures	3.0	Winter 06		
	CEE 620	Steel Bridge Engineering	3.0	Winter 06		
	CEE 481	Structural Steel	4.0	Fall 05	16	
	CEE 475	CEE Construction Materials	3.0	Summer 05	13	
	ENFD 375	Basic Strength of Materials	3.0	Summer 05	40	
6 th Year	CEE 102	CEE Freshmen Seminar	1.0	Spring 05	81	
	CEE 787	Theory of Metal Structures III	3.0	Spring 05	26	
	CEE 786	Theory of Metal Structures II	3.0	Winter 05	28	
	CEE 785	Theory of Metal Structures I	3.0	Fall 04	29	
	CEE 481	Structural Steel	4.0	Fall 04	24	
	ENFD 375	Basic Strength of Materials	3.0	Fall 04	25	
5 th Year	CEE 102	CEE Freshmen Seminar	1.0	Spring 04	40	4.37 / 5.00
	CEE 101	CEE Freshmen Seminar	1.0	Winter 04	55	
	ENFD 375	Basic Strength of Materials	3.0	Winter 04	35	4.45 / 5.00
	CEE 785	Theory of Metal Structures I	3.0	Fall 03	12	4.78 / 5.00
	CEE 481	Structural Steel	4.0	Fall 03	13	4.47 / 5.00
	ENFD 375	Basic Strength of Materials	3.0	Fall 03	27	4.11 / 5.00
4 th Year	CEE 787	Theory of Metal Structures III	3.0	Spring 03	22	4.60 / 5.00
	CEE 102	CEE Freshmen Seminar	1.0	Spring 03	36	N/A
	CEE 786	Theory of Metal Structures II	3.0	Winter 03	22	4.57 / 5.00
	ENFD 375	Basic Strength of Materials	3.0	Winter 03	34	4.57 / 5.00
	CEE 785	Theory of Metal Structures I	3.0	Fall 02	29	4.78 / 5.00
	CEE 481	Structural Steel	4.0	Fall 02	14	4.73 / 5.00
3 rd Year	CEE 381	Structures I	3.0	Spring 02	24	4.15 / 5.00
	ENFD 375	Basic Strength of Materials	3.0	Spring 02	22	4.39 / 5.00
	CEE 175	Intro to CEE Computing	3.0	Spring 02	4	N/A
	ENFD 375	Basic Strength of Materials	3.0	Winter 02	58	4.39 / 5.00
	CEE 481	Structural Steel	4.0	Fall 01	12	4.65 / 5.00
	ENFD 375	Basic Strength of Materials	3.0	Fall 01	42	4.41 / 5.00
	CEE 475	Construction Materials	3.0	Fall 01	31	Co Taught
	CEE 474	Construction Materials Lab	2.0	Fall 01	31	Co Taught

SUMMARY OF COURSES TAUGHT AND DEVELOPED (cont)

	Number	Title	Hrs	Qtr/Year	Size	Rating
2 nd Year	CEE 787	Theory of Metal Structures III	3.0	Spring 01	11	4.60 / 5.00
	CEE 175	Intro to CEE Computing	3.0	Spring 01	49	4.54 / 5.00
	CEE 786	Theory of Metal Structures II	3.0	Winter 01	18	4.62 / 5.00
	CEE 481	Structural Steel	4.0	Fall 00	33	4.72 / 5.00
	CEE 785	Theory of Metal Structures I	3.0	Fall 00	24	4.69 / 5.00
1 st Year	CEE 175	Intro to CEE Computing	3.0	Spring 00	58	4.68 / 5.00
	ENFD 375	Basic Strength of Materials	3.0	Winter 00	16	4.47 / 5.00
	CEE 481	Structural Steel	4.0	Fall 00	38	4.70 / 5.00
	ESM 2201	Statics	3.0	Winter 99	36	4.45 / 5.00

ADDITIONAL COMMITTEE SERVICE

University Committees

1. University IT Committee, 2003 - Pres

College Committees

1. Chair of College Computing Policy Committee, 2003 - Pres
2. College Committee on Awards and Scholarships, 2003 - Pres

Departmental Committees

1. Coordinator of Structures Group 2005 - Pres
2. ABET Evaluation Committee 2002 - 2004
3. Curriculum Committee, 2002 - Pres
4. Structures Search Committee, 2002, 2003
5. PhD Qualifying Exam Committee, 2001 - Pres

PROFESSIONAL AFFILIATIONS AND COMMITTEE SERVICE

- American Institute of Steel Construction
 - Member of Task Committee 6 - Connection Design, Since 2002
 - Member of Task Committee 8 - Bolts, 2000-2002
 - Chair of Task Group for Prying Forces in Bolted Connections, 1999-2000
 - Member Since 1999
- American Society of Civil Engineers
 - Member of Committee on Compression & Flexural Members Since 2002
 - Member of Committee on Structural Connections Since 2000
 - Associate Member Since 1999
- Research Council on Structural Connections
 - General Interest Member Since 2002
- Transportation Research Board
 - Member of Committee A2CO2 – Committee on Steel Bridges, Since 2001
- National Bridge Research Organization
 - Affiliated Researcher Since 2000
- American Welding Society
 - Member Since 1999 - 2003
- Tau Beta Pi
 - Member Since 2004
- Earthquake Engineering Research Institute
 - Member 1998 - 2002
- Chi Epsilon - National Civil Engineering Honor Society
 - Member Since 1994

COLLEGE / COMMUNITY SERVICE

- Faculty Advisor to the University of Cincinnati Student Chapter of the American Society of Civil Engineers since July, 2000
- Coordinate the distribution and evaluation of the graduate student applications for Civil Engineering division beginning winter 2003
- Assisted the University of Cincinnati Student Chapter of the American Society of Civil Engineering Steel Bridge Competition Committee, March, 2000
- Assist with the coordination of various visitation days, open houses, field trips, student competitions, etc.

REVIEWER

American Society of Civil Engineers - *Journal of Structural Engineering*
American Society of Civil Engineers - *Journal of Bridge Engineering*
American Institute of Steel Construction – *Engineering Journal*
Elsevier Publishing - *Journal of Constructional Steel Research*
Transportation Research Board – *Transportation Research Record*
Engineering Foundation - *Composite Construction IV (Conference Proceedings)*

CONFERENCE SESSIONS CHAIRED

1. Session 6 - Seismic Performance, Connection in Steel Structures IV: Steel Connections in the New Millennium, Roanoke, VA, October, 2000

CONSULTING ACTIVITIES

Consult on design aspects of beam-to-column connections

PROFESSIONAL REGISTRATION

EIT Certified, Pennsylvania, 1995

LAST REVISION DATE

January 6, 2006