

Cheng Yu, PhD

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EDUCATION

Ph.D., Civil/Structural Engineering (May 2005)

Johns Hopkins University, Baltimore, MD

Advisor: Dr. Ben Schafer

Dissertation title “*Distortional Buckling of Cold-Formed Steel Structural Members in Bending*”

M.S., Civil/Structural Engineering (May 2005)

Johns Hopkins University, Baltimore, MD

B.E., Civil/Structural Engineering (June 1998)

Tsinghua University, Beijing, P. R. China

WORK EXPERIENCE

Associate Professor and Program Coordinator, Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (June 2011 – Present)

Assistant Professor and Program Coordinator, Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (September 2005 – May 2011)

Lecturer, Department of Engineering Technology, University of North Texas, Denton, TX (January 2005 – August 2005)

Graduate Research Assistant, Department of Civil Engineering, Johns Hopkins University, Baltimore, MD (September 2000 – December 2004)

AWARDS

- Faculty Early Career Development (CAREER) Award, National Science Foundation, 2010-2015. \$400,010 [NSF Award #0955189]
- 2002 MBMA (Metal Building Manufacturers Association) Graduate Fellowship Award

RESEARCH INTERESTS

Cold-formed steel structures, thin-walled structures, computational mechanics, structural stability, earthquake engineering, structural dynamics.

RESEARCH ACTIVITIES

Associate Professor, Assistant Professor, Lecturer, Department of Engineering Technology, University of North Texas, Denton, TX (2005 – Present)

- Received over \$1.7M external and \$15K UNT internal research grants.
- Involved in development of U.S. specifications and standards for cold-formed steel structures.
- Established a state of the art structural testing laboratory at UNT.
- Major professor for a number of graduate students.

Research Assistant, Department of Civil Engineering, Johns Hopkins University, Baltimore, MD (2000 – 2004)

- Focused on design of cold-formed steel flexural members in distortional buckling.

- Developed analytical methods to evaluate the structural stability of thin plates under longitudinal stress gradients.
- Received research scholarship from Johns Hopkins University (2000-2004).

GRANTS

Awarded Research Grants

External

30. Principal Investigator, “*NTC-6R Clip Capacity*”, Nuconsteel Commercial Corp., May 2011 – June 2011. [UNT Acct. 65603 TO #10]
29. Principal Investigator, “*NuTruss 2.0 Continuous Beam and Roof Truss Tests*”, Nuconsteel Commercial Corp., April 2011 – May 2011. [UNT Acct. 65603 TO #9]
28. Principal Investigator, “*Finite element analysis on cold-formed steel hat sections*”, Nuconsteel Commercial Corp., March 2011 – April 2011. [UNT Acct. 65603 TO #8]
27. Principal Investigator, “*Corrugated Shear Panel and NTC-6 Clip Capacity*”, Nuconsteel Commercial Corp., March 2011 – April 2011. [UNT Acct. 65603 TO #7]
26. Principal Investigator, “*Web Crippling Test on Metwood Rim Beam - 68 mil 50 ksi Type A*”, Nuconsteel Commercial Corp., February 2011 – March 2011. [UNT Acct. 65603 TO #6]
25. Principal Investigator, “*Single Sided Fastener Connection using 70 ksi NT3.0 Chord and Commercial Web*”, Nuconsteel Commercial Corp., February 2011 – March 2011. [UNT Acct. 65603 TO #5]
24. Principal Investigator, “*CFS Bolted Connection using 70 ksi NT3.0 & Commercial Web*”, Nuconsteel Commercial Corp., January 2011 – February 2011. [UNT Acct. 65603 TO #4]
23. Principal Investigator, “*Strength of Load Distribution Members*”, Nuconsteel Commercial Corp., December 2010 – March 2011. [UNT Acct. 65603 TO #3]
22. Principal Investigator, “*Bolted Connections using 50 ksi NT 2.0 Commercial Chord and Web Members*”, Nuconsteel Commercial Corp., December 2010 – December 2011. [UNT Acct. 65603 TO #2]
21. Principal Investigator, “*Strength of SSMA Stud-track Connections*”, Nuconsteel Commercial Corp., June 2010 – June 2011. [UNT Acct. 65603 TO #1]
20. Principal Investigator, “*Strength of Stud-to-Track Connections*”, Nuconsteel Commercial Corp., June 2010 – July 2010. [UNT Acct. GP6159]
19. Principal Investigator, “*CAREER: Comprehensive Research on Cold-Formed Steel Sheathed Shear Walls: Special Detailing, Design, and Innovation*”, National Science Foundation, 2010 – 2015. [UNT Acct. GF1559]
18. Principal Investigator, “*Compression Strength of Truss Chord Members*”, Nuconsteel Commercial Corp., April 2010 – June 2010. [UNT Acct. GP6139]
17. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Structures*”, Nuconsteel Commercial Corp., June 2009 – August 2009. [UNT Acct. GP6108]
16. Principal Investigator, “*Eccentrically Loaded Cold-Formed Steel Wall Stud Walls*”, Nucor Corporation, August 2008 – August 2009. [UNT Acct. G70756]
15. Principal Investigator, “*Evaluation of Stiffback for Monolithic Placement of Monolithic Placement of Ecospan Joist on ICF*”, Nucor Corporation, August 2008 – August 2009. [UNT Acct. G70761]
14. Principal Investigator, “*Shear Resistance of Cold-Formed Steel Stud Walls with Wider Range of Options in Steel Sheathing - Phase Two*”, American Iron and Steel Institute, August 2008 – December 2008. [UNT Acct. G70752]
13. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers - Phase 2*”, American Iron and Steel Institute, October 2008 – September 2009. [UNT Acct. G70772]

12. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Structures*”, Nuconsteel Commercial Corp., June 2008 – May 2009. [UNT Acct. G70730]
11. Principal Investigator, “*Shear Resistance of Cold-formed Steel Framed Shear Wall Assemblies for Mid-rise Construction*”, Worthington Industries, February 2008 – July 2008. [UNT Acct. G70705]
10. Principal Investigator, “*Finite Element Analysis on Special Braced Frame*”, BORM Associates, Inc, June 2007 – December 2007. [UNT Acct. G70436]
9. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Structures*”, Nuconsteel Commercial Corp., June 2007 – May 2008. [UNT Acct. G70252]
8. Principal Investigator, “*Finite Element Analysis on BORM Moment Frame*”, BORM Associates, Inc, April 2007 - May 2007. [UNT Acct. G70425]
7. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers*”, American Iron and Steel Institute, April 2007 – August 2008. [UNT Acct. G70337]
6. Principal Investigator, “*Shear Resistance of Cold-Formed Steel Stud Walls with Wider Range of Options in Steel Sheathing*”, American Iron and Steel Institute, January 2007 – April 2007. [UNT Acct. G70234]
5. Principal Investigator, “*Testing and Analysis of Cold-Formed Steel Structures*”, Nuconsteel Commercial Corp., June 2006 – May 2007. [UNT Acct. G70042]
4. Co-Principal Investigator, “*Cold-Formed Steel Structures Analysis*”, Nuconsteel Commercial Corp., June 2005 – May 2006 (PI: Dr. Bill Grubbs). [UNT Acct. G70042]

Internal

3. Principal Investigator, “*Probabilistic Structural Safety Assessment of Bolted Connections for Building Exposed to Seismic and Wind Hazards*”, UAEM-UNT Research Seed Funding Program, University of North Texas, January 2010 – December 2010, \$5,000. [UNT Acct. GA9840]
2. Principal Investigator, “*Towards Design Provisions for Cold-Formed Steel Beams with Edge Stiffened Perforations*”, Faculty Research Grant, University of North Texas, September 2006 – August 2007, \$5,000. [UNT Acct. G33827]
1. Principal Investigator, “*Effective Width Method Based Cold-Formed Steel Design for Distortional Buckling*”, Faculty Research Grant, University of North Texas, September 2005 – May 2006, \$5,000. [UNT Acct. G69316]

Awarded Educational Grants and Gifts (all external)

Grants

6. Principal Investigator, “*Outfitting Academic Laboratories for Construction Engineering Technology (CNET) Program*”, QUOIN Foundation, January 2008 – December 2008, \$4,000. [UNT Acct. G70716]
5. Principal Investigator, Grant for the Development of Construction Engineering Technology Program, Nuconsteel Commercial Corp., 2007, \$10,000. [UNT Acct. 67715]
4. Principal Investigator, Construction Department Grant, QUOIN Foundation, May 2007 – April 2008, \$3,000. [UNT Acct. G70397]
3. Principal Investigator, Construction Department Grant, QUOIN Foundation, January 2006 – December 2006, \$3,000. [UNT Acct. G70232]

Gifts

2. Principal Investigator, Software Donation of 25 licenses of Autodesk Revit Structures 2008, Autodesk, June 2007.
1. Principal Investigator, Software Donation of 20 licenses of Autodesk Revit Structures 3 and 20 licenses of AutoCAD 2007, Autodesk, June 2006.

PUBLICATIONS

Refereed Journal Articles (Published or Accepted for Publication) (* Corresponding author)

10. Yu, C.*, Yan, W. (2011). “*Determining Distortional Buckling Strength of Cold-Formed Steel Flexural C and Z Sections Using Effective Width Method Thin-Walled Structures*”, Elsevier, Thin-Walled Structures. Volume 49, Issue 2, (2011), 233-238.
9. Yu, C.*, Xu, K., Sheerah, I. (2011). “*Bearing Strength of Cold-Formed Steel Bolted Connections Using Oversized Holes without Washers*”, ASCE, Journal of Structural Engineering. 137, 156 (2011).
8. Yu, C.*, Chen, Y. (2011). “*Detailing Recommendations for 1.83-m Wide Cold-Formed Steel Shear Walls with Steel Sheathing*”, Elsevier, Journal of Constructional Steel Research, 67 (2011) 93-101.
7. Yu, C.* (2010). “*Shear Resistance of Cold-Formed Steel Framed Shear Walls with 0.686-mm, 0.762-mm, and 0.838-mm Steel Sheet Sheathing*”, Elsevier, Engineering Structures, 32 (2010) 1522-1529.
6. Yu, C.* (2010). “*Distortional Buckling Of Cold-Formed Steel Shear Wall Studs Under Uplift Force*”, ASCE, Journal of Structural Engineering, 136 (3) 317-323.
5. Yu, C.*, Schafer, B.W. (2007). “*Simulation of Cold-Formed Steel Beams in Local and Distortional Buckling with Applications to the Direct Strength Method*”, Elsevier, Journal of Constructional Steel Research. 63(5) 581-590.
4. Yu, C.*, Schafer, B.W. (2007). “*Effect of Longitudinal Stress Gradient on the Elastic Buckling of Thin Plates*”, ASCE, Journal of Engineering Mechanics. 133(4) 452-463.
3. Yu, C.*, Schafer, B.W. (2006). “*Effect of Longitudinal Stress Gradient on the Ultimate Strength of Thin Plates*”, Elsevier, Thin-Walled Structures. 44 (7) 787-799.
2. Yu, C.*, Schafer, B.W. (2006). “*Distortional Buckling Tests on Cold-Formed Steel Beams*”, ASCE, Journal of Structural Engineering. 132 (4) 515-528.
1. Yu, C., Schafer, B.W.* (2003). “*Local Buckling Tests on Cold-Formed Steel Beams*”, ASCE, Journal of Structural Engineering. 129 (12) 1596-1606.

Refereed Conference Papers (Published or Accepted for Publication) (* Presenter)

20. Law, K, Zhao, Y., Yu, C.*, Yan, W. (2011). “*Simplified Methods for Determining the Critical Elastic Buckling Load of Thin-Walled Cold-Formed Steel Sections*”, Proceedings of the Annual Stability Conference, Structural Stability Research Council, Pittsburgh, PA, May 2011.
19. Yu, C.*, Chen, Y. (2010). “*Experimental Investigation on 6 Feet Wide Cold-Formed Steel Framed Shear Walls with Steel Sheet Sheathing*”, Proceedings of the 20th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 2010.
18. Yu, C. (2010). “*Appropriate Adjustment Method for Experimental Results of Cold-Formed Steel Shear Walls Sheathed with Steel Sheets*”, Proceedings of the Annual Stability Conference, Structural Stability Research Council, Orlando, FL, May 2010.
17. Moen, C. D.*, Yu, C. (2010). “*Elastic Buckling of Thin-Walled Structural Components with Edge-Stiffened Holes*”, Proceedings of the 51st AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, Orlando, FL, April 2010.
16. Yu, C.*, Huang, Z., Vora, H. (2009). “*Cold-Formed Steel Framed Shear Wall Assemblies with Corrugated Sheet Steel Sheathing*”, Proceedings of the Annual Stability Conference, Structural Stability Research Council, Phoenix, AZ, April 2009.
15. Vora, H., Yu, C. * (2008). “*Pilot Research on Cold-Formed Steel Framed Shear Wall Assemblies with Corrugated Sheet Steel Sheathing*”, Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.
14. Yu, C. * (2008). “*Shear Resistance of Cold-Formed Steel Framed Shear Wall Assemblies with 0.027-.0.030-,0.033-inch Sheet Steel Sheathing*”, Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.

13. Yu, C. *, Sheerah, I. (2008). “*Cold-Formed Steel Bolted Connections without Washers on Oversized Holes: Shearing and Bearing Failures in Sheets*”, Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.
12. Yu, C*. (2008). “*A Unique Buckling Mode for Cold-Formed Steel Framed Shear Wall with Sheet Steel Sheathing*”, Proceedings of the 5th Conference on Coupled Instabilities in Metal Structures, Sydney, Australia, June 2008.
11. Yu, C*. (2008). “*Cold-Formed Steel C-Sections with Edge Stiffened Perforations: Optimization, Behavior, and Design*”, Proceedings of the 5th International Conference on Thin-walled Structures, Brisbane, Australia, June 2008.
10. Yu, C*. (2008). “*A Unique Buckling Mode for Cold-Formed Steel Framed Shear Wall with Sheet Steel Sheathing*”, Proceedings of the Annual Stability Conference, Structural Stability Research Council, Nashville, TN, April 2008.
9. Yu, C*. (2007). “*Behavior and Design of Cold-Formed Steel Joists with Edge Stiffened Perforations*”, Proceedings of the Annual Technical Session and Meeting, Structural Stability Research Council, New Orleans, LA, April 2007.
8. Yu, C*., Schafer, B.W. (2006). “*Finite Element Modeling of Cold-Formed Steel Beams: Validation and Application*”, Proceedings of the 18th International Specialty Conference Cold-Formed Steel Structures, Orlando, FL, October 2006.
7. Yu, C*., Lokie, T. (2006). “*Effective Width Method Based Design for Distortional Buckling of Cold-Formed Steel Beams*”, Proceedings of the 18th International Specialty Conference Cold-Formed Steel Structures, Orlando, FL, October 2006.
6. Yu, C*., Schafer, B. W. (2006) “*Stability of Thin Plates under Longitudinal Stress Gradient*”, Proceedings of the Annual Technical Session and Meeting, Structural Stability Research Council, San Antonio, TX, February 2006.
5. Ádány, S. *, Yu, C., Schafer, B. (2005) “*Local and Distortional Buckling Resistance of Cold-Formed Steel Beams: Eurocode 3 in the light of (i) Experimental Research and (ii) Other Design Codes*”, Proceedings of the EUROSTEEL 2005 Conference, Maastricht, Netherlands, June 8 – 10, 2005.
4. Yu, C. *, Schafer, B.W. (2004). “*Distortional Buckling Tests on Cold-Formed Steel Beams*”, Proceedings of the 17th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2004.
3. Yu, C. *, Schafer, B.W. (2004). “*Stress Gradient Effect on the Buckling of Thin Plates*”, Proceedings of the 17th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2004.
2. Yu, C., Schafer, B.W.* (2003). “*Analysis and Testing of Cold-Formed Steel Beams*”, Proceedings of the Advances in Structures: Steel, Concrete, Composite and Aluminum - ASSCCA’03, Sydney, Australia.
1. Yu, C. *, Schafer, B.W. (2002). “*Local Buckling Tests on Cold-Formed Steel Beams*”, Proceedings of the 16th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2002.

Published Technical Reports

7. Yu, C., Xu, K. (2010). “*Cold-Formed Steel Bolted Connections Using Washers on Oversized and Slotted Holes – Phase 2*”, Research Report RP10-2 submitted to American Iron and Steel Institute, Washington, DC.
6. Yu, C., Chen, Y. (2009). “*Steel Sheet Sheathing Options for Cold-Formed Steel Framed Shear Wall Assemblies Providing Shear Resistance – Phase 2*”, Research Report RP09-2 submitted to American Iron and Steel Institute, Washington, DC.
5. Yu, C., (2008). “*Design of Clip Angle Bearing Stiffeners*”, Technical Note, Cold-Formed Steel Engineers Institute, Wilmington, NC, (Peer Reviewed).
4. Yu, C. (2008). “*Cold-Formed Steel Bolted Connections without Washers on Oversized and Slotted Holes – Phase I*”, Research Report RP08-11 submitted to American Iron and Steel Institute, Washington, DC.

3. Yu, C. (2007). “*Steel Sheet Sheathing Options for Cold-Formed Steel Framed Shear Wall Assemblies*”, Research Report RP07-3 submitted to American Iron and Steel Institute, Washington, DC.
2. Yu, C., Schafer, B.W. (2005). “*Distortional Buckling of Cold-Formed Steel Members in Bending*”, Research Report RP05-1, American Iron and Steel Institute, Washington, DC.
1. Schafer, B.W., Yu, C. (2002). “*Test Verification of the Effect of Stress Gradient on Webs of Cee and Zee Sections*”, Research Report RP02-5 submitted to American Iron and Steel Institute, the Metal Building Manufacturers Association.

Other Publications

2. Yu, C. (2008). “*A State-of-the-Art Structural Testing Laboratory at the University of North Texas*”, Poster in Texas Section – ASCE Fall 2008 Meeting, Dallas, TX, October 2 – 4, 2008.
1. Yu, C. (2008). “*Shear Resistance of Cold-Formed Steel Framed Walls with Sheet Steel Sheathing*”, Poster in Texas Section – ASCE Spring 2008 Meeting, Corpus Christi, TX, April 23 – 26, 2008.

INVITED PRESENTATIONS (Excluding Conference Paper Presentations)

- “*Cold-Formed Steel Bolted Connections with Oversize Holes and Short Slotted Holes without Washers*”, Annual MBMA Research Symposium, Tampa, FL, February 11, 2009.
- “*Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers*”, AISI Committee on Specifications Meetings, Charlotte, NC, February 6, 2008.
- “*Innovative Cold-Formed Steel Structures*”, Seminar, Department of Materials Science and Engineering, University of North Texas, Denton, TX. September 19, 2007.
- “*Cold-Formed Steel Framed Shear Wall Assemblies with Steel Sheathing*”, AISI Committee on Steel Framing Meetings, Baltimore, MD, September 11, 2007.
- “*Cold-Formed Steel Structures*”, North Texas Chapter Monthly Meeting, American Institute of Constructors, Dallas, TX, March 27, 2006.
- “*Curriculum Development of UNT Construction Engineering Technology Program*”, ASC Region 5 Conference, Dallas TX, September 9, 2005.
- “*Distortional Buckling of Cold-Formed Steel Beams*”, AISI Committee On Specifications Meetings, Las Vegas, NV, February 22, 2005.
- “*Tests and Analysis of Cold-Formed Steel Beams*”, Annual MBMA Research Symposium, San Antonio, TX, February 12, 2003.

TEACHING

Assistant Professor, Department of Engineering Technology, University of North Texas, Denton, TX (2005 – Present)

Courses taught at UNT

Master’s Level

- MSES 5020 Risk Management in Construction, 3 credit hours (Fall 2010)
- MSET 5040 Analytical Methods for Engineering Technology, 3 credit hours (Spring 2007, Spring 2008)
- MSES 5900, MEET 5900, MEET 5910, MSET 5910 Graduate Special Problems, 1-3 credit hours
 - Summer I 2011, Chao Li, 1cr
 - Summer II 2011, Chao Li, 2 cr
 - Spring 2011, John Black, 3cr
 - Summer 2010, Kiamhai Law, 3cr
 - Fall 2009, Kiamhai Law, 3cr

- Summer 2009, Yujie Chen, 3 cr
- Summer 2009, Esteban Eureste, 3 cr
- Spring 2009, Ibraheem Sheerah, 3cr
- Fall 2008, Yujie Chen, 3cr
- Summer 2008, Khanh Nguyen, 3cr
- Summer 2007, Hitesh Vora, 3cr
- Fall 2006, Ali Abed Shaito, 3cr
- MSES 5930, Graduate Research Problems in Lieu of Thesis
 - Spring 2010, Kiamhai Law, 3cr

Undergraduate Level

- ENGR 2332 Mechanics of Materials, 4 credit hours (class and lab) (Spring 2005, Fall 2005)
- CNET 1160 Construction Methods and Materials, 3 credit hours (class and lab) (Fall 2005, Fall 2006, Spring 2008 lab only)
- CNET 2300 Architectural Drawing, 2 credit hours (class and lab) (Fall 2009, Fall 2010)
- CNET 3430 Structural Analysis, 3 credit hours (Fall 2007, Fall 2008, Fall 2009)
- CNET 3460 Soils and Foundation, 3 credit hours (class and lab) (Spring 2010)
- CNET 4620 Advanced Design of Cold-Formed Steel Structures, 3 credit hours (class and lab) (Spring 2009, Spring 2010, Spring 2011)
- CNET 4780 Senior Design I, 2 credit hours (class and lab) (Fall 2008, Fall 2010)
- CNET 4790 Senior Design II, 3 credit hours (class and lab) (Spring 2009 co-teach with Dr. Arnold)
- CNET 4900 Special Problems, 1-3 credit hours
 - Summer 2009, Tong Wu, 3cr

SERVICE

Undergraduate Program Coordinator, Undergraduate Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (2005 – Present)

- Designed 4 year bachelor degree curriculum of Construction Engineering Technology at UNT (commonly called CNET). The curriculum meets both ABET and ACCE accreditation criteria. CNET program started in Fall 2005. Enrollment of Spring 2010 is 147.
- Designed and established a 7,200 sq. ft academic lab for construction material and technologies.
- Established a computer lab for CNET program.
- Established CNET Industrial Advisor Board (IAB) and organized annual IAB meetings (2005 – Present).
- Established AGC student chapter at UNT.
- Faculty advisor and coach for student competition teams in ASC regional competitions (2009 – 2010).
- Helped to create a number of industry sponsored internship/coop positions for CNET students through UNT intern/coop office.

Graduate Program Coordinator, Graduate Construction Management Program, Department of Engineering Technology, University of North Texas, Denton, TX (2009 – Present)

- Designed a 2-year graduate program in Construction Management (Master of Science in Engineering Systems with concentration in Construction Management). New graduate program started in Fall 2009.
- Advising for prospective and existing graduate students.

- Developed new graduate courses for the Mechanical Engineering Technology program.

Members of UNT Committees

- College of Engineering Scholarship Committee (2009 – Present)
- Departmental Faculty Search Committee for 5 faculty members (2005 – Present)
- Departmental Scholarship Committee (2005 - Present)

External Services

- Member of Construction Management Advisory Committee, Tarrant County College, Southeast Campus, Arlington, TX (2005 – Present).
- Member in Training, ACCE Accreditation Visit Team to Brigham Young University, Provo, UT (2007).

STUDENT ADVISING

Major Advisor for Graduate Students

Current Students

- Chao Li, M.S. in Engineering Systems, thesis title “Cold-Formed Steel Shear Wall using OSB Sheathing”.
- Xouphab Panyanouvong, M.S. in Engineering Systems, thesis title “Bearing Strength of Cold-Formed Steel Bolted Connections without Nut”.
- Joshua Stokes, M.S. in Engineering Systems, thesis title to be decided.
- Kiam Hai Law, M.S. in Engineering Systems, project title “Cold-Formed Steel Members with Stiffened Perforations”

Graduated Students

- Yujie Chen, M.S. in Engineering Systems, thesis title “Seismic Detailing for Cold-Formed Steel Shear Walls with Steel Sheathing” (Summer 2010).
- Ke Xu, M.S. in Engineering Systems, thesis title “Cold-Formed Steel Bolted Connections using Oversized and Slotted Holes without Washers” (Summer 2010).
- Ibraheem Shreah, M.S. in Engineering Systems, thesis title “Cold-Formed Steel Bolted Connections without Washers on Oversize and Slotted Holes” (May 2009).
- Hitesh Vora, M.S. in Engineering Technology, thesis title “Shear Wall Tests and Finite Element Analysis of Cold-Formed Steel Structural Members” (December 2008).
- Khanh Nguyen, M.S. in Engineering Technology, project title “Finite Element Analysis on Cold-Formed Steel Specially Braced Frame” (May 2008).

Thesis Committee Member for Graduate Students

Current Students

- John Black, M.S. in Engineering System, thesis title “John Black, M.S. in Engineering System, thesis title “Recommended Modified Zone Method Correction Factor for Determining R-Values of Cold-Formed Steel Wall Assemblies”.
- Ardeep Pati, M.S. in Engineering Technology, thesis title “Effects of Rebar Temperature and Water to Cement Ratio on Rebar-Concrete Bond Strength of Fly Ash Containing Concrete”.
- Pohua Lee, M.S. in Engineering Technology, thesis title “Experimental Study of Piezoelectric Energy Harvester”.

Graduated Students

- Ali Shaito, Ph.D. in Department of Materials Science and Engineering, dissertation title “Long Term Property Prediction of Polyethylene Nanocomposites” (May 2008).
- Elias Sudio, M.S. in Engineering Technology, thesis title “Factors influencing horizontal cracking in continuously reinforced concrete pavements” (May 2008).

Research Advisor for Undergraduate Students

UNT Students

- Marcus Sanchez, Roger Rovira (current)
- Kyle Durham, Devin Hyde, Travis Stivors, Taylor Cheney, Andy Hetrick (2009)
- George Trabazo, Robert Moore, Jole Bolz (2008)
- Cole Earle, Jimmy Tucker (2007)
- Tony Dianard (2006)
- Trevor Lokie, Andrew Alnosos (2005)

Texas Academy of Mathematics and Science (TAMS) Students

- Wesley Beckner, Alex Wu (2009)
- Stepen Mathai, Szu-Chun Huang (2008)

PROFESSIONAL MEMBERSHIPS

- Associate Member, American Society of Civil Engineers (2005 – Present)
- Controlling Member, Committee on Cold-Formed Members, Structural Engineering Institute, American Society of Civil Engineers (2010 – present)
- Senior Member, American Institute of Aeronautics and Astronautics (2010 – Present)
- Member, Technical Assistance Panel, TAP 5, Texas Department of Transportation (2005 – Present)
- Member, Committee on Specifications of American Iron and Steel Institute (2005 – Present)
- Member, Committee on Framing Standards of American Iron and Steel Institute (2006 – Present)
- Member, CFSEI Technical Document Committee, (2007 – Present)
- Member, American Council for Construction Education (2005 – Present)
- Member, Structural Stability Research Council (2006 – Present)
- Member, American Institute of Steel Construction, (2007 – Present)

PAPER/BOOK/PROPOSAL REVIEW

- ASCE Journal of Structural Engineering
- ASCE Journal of Engineering Mechanics
- Elsevier, Journal of Construction Steel Research
- Elsevier, Thin-Walled Structures
- ERDC Proposal Review Panel, Engineer Research and Development Center, U.S. Army Corps of Engineers
- International Conference on Thin Walled Structures
- Natural Sciences and Engineering Research Council of Canada
- U.S. Civilian Research and Development Foundation
- Person Prentice Hall