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PROFESSIONAL PREPARATION

Virginia Tech	Civil Engineering	B.S., 1994
Virginia Tech	Civil Engineering	M.S., 1996
Virginia Tech	Civil Engineering	Ph.D., 2008

PROFESSIONAL LICENSES

Structural Engineer (S.E.)—Illinois, License No. 081-006088
 Professional Engineer, Structural—Kentucky, License No. 32008.

APPOINTMENTS

January 2017 – present	Associate Professor, University of Kentucky, Lexington, KY.
January 2009 – December 2016	Assistant Professor, University of Kentucky, Lexington, KY.
August 2008 – January 2009	Part-Time Instructor, University of Kentucky, Lexington, KY.
2005 – August 2008	Research Assistant, Virginia Tech, Blacksburg, VA.
2000 – 2005	Structural Design Engineer, Structural Design Group, Nashville, TN.
1998 – 2000	Structural Design Engineer, Stanley D. Lindsey and Associates, Nashville, TN.
1997 – 1998	Structural Engineer, Hayes, Seay, Mattern, and Mattern, Roanoke, VA.
1996 – 1997	Research Engineer, American Buildings Company, Eufaula, AL.

REPRESENTATIVE JOURNAL PUBLICATIONS

1. Daley, D.J., Davis, D.B., White, D.W. (2017). "Shear Strength of Unstiffened Steel I-Shaped Members." *Journal of Structural Engineering*, 143(3).
2. Studer, R.P., Binion, C.D., Davis, D.B. (2015). "Shear strength of Tapered I-shaped Steel Members." *Journal of Constructional Steel Research*, 112(9).
3. Davis, B., Avci, O. (2015). "Simplified Vibration Serviceability Evaluation for Slender Monumental Stairs." *Journal of Structural Engineering*, 141(11).
4. Liu, D., Davis, B. (2015). "Walking Vibration Response of High Frequency Floors Supporting Sensitive Equipment." *Journal of Structural Engineering*, 141(8).
5. Davis, B., Liu, D., Murray, T.M. (2014). "Simplified Experimental Evaluation of Floors Subject to Walking Induced Vibrations." *Journal of Performance of Constructed Facilities*, 28(5).
6. Liu, D., Davis, B., Arber, L., Sabelli, R. (2013). "Torsional and Constrained-Axis Flexural-Torsional Buckling Tables for Steel W-Shapes in Compression." *Engineering Journal*, 50(4), 205-248.

7. Thomas, A., Davis, B., Dadi, G.B., Goodrum, P.M. (2013). "A Case Study of the Impact of 100 ksi Steel Reinforcement on Concrete Productivity in Buildings." *Journal of Construction Engineering and Management*, 139(11).
8. Davidson, M., Harik, I.E., Davis, D.B. (2011). "Fire Impact and Passive Fire Protection of Infrastructure: State of the Art." *Journal of Performance of Constructed Facilities*, 27(2), 135-143.
9. Davis, D.B., Barrett, A.R., Murray, T.M. (2011). "Use of a Force Plate Versus Armature Accelerometer for Measuring Frequency Response Functions." *Experimental Techniques*, 35(1), 73-79.
10. Davis, D.B. and Murray, T.M. (2009). "Slender Monumental Stair Vibration Serviceability." *Journal of Architectural Engineering*, 15(4), 111-121.

REPRESENTATIVE CONFERENCE ACTIVITIES

1. Technical Session Organizer and Moderator for four sessions at the ASCE Structures Congress between 2008 and 2013.
2. Daley, A.J., Davis, D.B. and White, D.W. (2016). "Shear Strength of Unstiffened Steel Plate Girders." Proceedings of the Annual Stability Conference, AISC, Chicago, IL, available at www.aisc.org/content.aspx?id=41930.
3. Davis, B. and Avci, O. (2014). "Simplified Vibration Response Prediction for Slender Monumental Stairs." *Proceedings, Structures Congress*, ASCE, Reston, Virginia.
4. Studer, R.P., and Davis, D.B. (2013). "Shear Strength of Web-Tapered I-Shaped Members." *Proceedings, Annual Stability Conference*, Structural Stability Research Council, Chicago, Illinois.
5. Sanchez, T.A, Davis, D.B., and Murray, T.M. (2011). "Floor Vibration Characteristics of Long Span Composite Slab Floor Systems." *Proceedings, Structures Congress*, ASCE, Reston, Virginia.
6. Dr. Davis has spoken at the North American Steel Construction Conference five times in the last eight years.

SYNERGISTIC ACTIVITIES

1. Dr. Davis is a member of the American Institute of Steel Construction "Manuals Committee."
2. Invited speaking and continuing education seminars: Dr. Davis has spoken to numerous professional groups over the last ten years.
3. Professional recognition
 - a. 2016 Educator Special Achievement Award, American Institute of Steel Construction.
 - b. 2013 and 2009 Outstanding Civil Engineering Faculty Award, University of Kentucky. Awarded by Chi Epsilon civil engineering honor society.

COLLABORATORS

- Dr. Justin Marshall, Auburn University, Auburn, AL.
- Dr. Thomas M. Murray, Virginia Tech, Blacksburg, VA.
- Dr. Paul Reynolds, University of Exeter, Devon, United Kingdom.
- Dr. Donald White, Georgia Tech, Atlanta, GA.