Brad Davis, Ph.D., S.E.

Department of Civil Engineering
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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—Virginia, License No. 41235 (inactive)

Professional Engineer, Structural—Tennessee, License No. 105257 (inactive)

APPOINTMENTS

January 2009 – present,	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.

JOURNAL PUBLICATIONS

1. Davis, D.B., Barrett, A.R., and Murray, T.M. “Use of a Force Plate Versus Armature Accelerometer for Measuring Frequency Response Functions,” *Experimental Techniques*, in press.
2. Davis, D.B. and Murray, T.M. “Slender Monumental Stair Vibration Serviceability,” *Journal of Architectural Engineering*, ASCE, December 2009.

CONFERENCE ACTIVITIES

1. Sanchez, T.A, Davis, D.B., and Murray, T.M. “Floor vibration characteristics of Long Span Composite Slab Floor Systems,” ASCE Structures Congress 2011.
2. Technical Session Organizer, 2011 ASCE Structures Congress, “Floor Vibration Serviceability.”
3. Technical Session Organizer and Moderator, 2010 ASCE Structures Congress, “Floor Vibration Serviceability.”

4. Davis, D.B. and Murray, T.M. (2010) “Simplified Finite Element Modeling for Prediction of Floor Vibration,” North American Steel Construction Conference.
5. Pabian, S.D., and Davis, D.B. (2010) “Comparison of Current Floor Vibration Prediction Methods,” ASCE Structures Congress.

SYNERGISTIC ACTIVITIES

1. American Institute of Steel Construction “Manuals Committee”: Dr. Davis is a member of the prestigious AISC Manuals Committee which oversees the *Steel Construction Manual*, design guides, other technical documents, and Design Examples.
2. American Institute of Steel Construction “Solutions Center”: Dr. Davis is one of a half-dozen nationally recognized structural steel experts who provide in-depth technical answers to professional design engineers. His answers, along with those of his peers, are published in the widely read *Modern Steel Construction* Steel Interchange.
3. Invited Speaking and Continuing Education Seminars: Dr. Davis has spoken to five professional groups over the last two years.
4. Professional recognition
   a. 2010 Outstanding Young Alumni Award, Virginia Tech Department of Civil and Environmental Engineering.
   b. 2009 Outstanding Civil Engineering Faculty Award, University of Kentucky. Awarded by Chi Epsilon civil engineering honor society.
   c. 2008 Meritorious Publication for AISC Steel Construction Manual, Structural Engineering Association of Illinois.
   d. Best Overall Paper for “Comparisons of Measured Modal Properties and Walking Accelerations with Analytical Predictions for a Slender Monumental Stair,” ASCE Architectural Engineering National Conference, 2008.

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators

- Anthony Barrett, U.S. Air Force Academy, CO.
- Michael Baugh, University of Kentucky, Lexington, KY.
- Thomas M. Murray, Virginia Tech, Blacksburg, VA.
- Scott Pabian, University of Kentucky, Lexington, KY.
- Andres Sanchez, Georgia Tech, Atlanta, GA.

Graduate Advisor

- Thomas M. Murray, Virginia Tech, Blacksburg, VA.

Graduate Students Supervised and Supervising

- M.S. Students: A. Rust, M. Baugh, S. Pabian, M. Swiderski, A. Holmes, R. Studer, A. Thomas.
- Ph.D. Student: Di. Liu