

Peter L. Datin, EI

365 Weil Hall
Gainesville, FL
352-392-9537 x1503
352-214-2466 (cell)
pdatin@ufl.edu

Education:

PhD Student in Civil Engineering, Expected Graduation: May 2010

University of Florida, Gainesville, FL

Dissertation Title: Structural Load Paths in Low-Rise Wood-Frame Structures

Thesis Advisor: Dr. David O. Prevatt, Assistant Professor of Civil & Coastal Engineering

Master's of Science in Civil Engineering, May 2007

Clemson University, Clemson, SC

Report Title: Wind Uplift Reactions at Roof-to-Wall Connections of a Wood-Framed Gable Roof Assembly

Thesis Advisor: Dr. David O. Prevatt, Assistant Professor of Civil Engineering

Bachelor's of Science in Civil Engineering, May 2005

Oklahoma State University, Stillwater, OK

Professional Registration:

Engineer Intern (EI). Oklahoma State Board of Registration for Professional Engineers and Land Surveyors. Certificate No. EI 13013.

Research Experience:

Graduate Research Assistant, Department of Civil & Coastal Engineering, University of Florida, Gainesville, FL, June 2007 – present

- Structural testing of residential buildings (in field destructive testing and laboratory testing of building components, i.e. roof sheathing, roof-to-wall connections)
- Supervising undergraduate and graduate students in conducting experimental testing and preparation of presentation quality material
- Research presentations in various settings
- Journal paper and proposal writing for publication

Graduate Research Assistant, Wind Load Test Facility, Clemson University, Clemson, SC, August 2005 – May 2007

- Wind tunnel testing of low-rise residential structures
- Structural testing of wood-frame roofs
- Data collection, analysis, and reduction using LabVIEW and MATLAB
- Research presentations in various settings
- Research paper and proposal writing for publication

Publications:

Datin, Peter L. and Prevatt, David O. “Wind Uplift Capacity of Wood Roof Sheathing Panels – Testing and Interpretation,” *Journal of Structural Engineering*, Submitted for review.

Conferences/Presentations:

Datin, Peter L. and Prevatt, David O. (2009) “Equivalent Roof Panel Wind Loading for Full-Scale Sheathing Testing,” 20 minute oral presentation at the 11th Americas Conference on Wind Engineering, San Juan, Puerto Rico, June 22-26, 2009.

Prevatt, David O., **Datin, Peter L.**, and Mensah, Akwasi (2009) “Performance Based Wind Engineering (PBWE): Interaction of Hurricanes with Residential Structures,” Proceedings of 2009 NSF Engineering Research and Innovation Conference, Honolulu, Hawaii, June 22-25, 2009.

Hill, Kenneth, **Datin, Peter**, Prevatt, David O., Gurley, Kurtis, and Kopp, Gregory A. (2009) “A Case for Standardized Dynamic Wind Uplift Pressure Test for Wood Roof Structural Systems,” 20 minute oral presentation at the 11th Americas Conference on Wind Engineering, San Juan, Puerto Rico, June 22-26, 2009.

Datin, Peter L. and Prevatt, David O. (2008) “Database-Assisted Design: Applicability to Wood Frame Construction and Validation using a 1/3-scale Model,” 20 minute oral presentation at the American Association of Wind Engineers Workshop, Vail, CO, August 21-22, 2008.

Datin, Peter L. and Prevatt, David O. (2007) “Wind Uplift Reactions at Roof-to-Wall Connections of Wood-Framed Gable Roof Assembly.” 20 minute oral presentation at the 12th International Wind Engineering Conference, Australasian Wind Engineering Society, Cairns, Australia, July 1-6, 2007.

Datin, Peter L., Liu, Zhuzhao, Prevatt, David O., Masters, F.J., Gurley, K., and Reinhold, T.A. (2006) “Wind Loads on Single-Family Dwellings in Suburban Terrain – Comparing Field and Wind Tunnel Simulation.” Proceedings of the 2006 Structures Congress, St. Louis, MO, May 18-20, 2006.

Datin, Peter. (2006) “The Florida Coastal Monitoring Program – Full-Scale Monitoring of Wind Speeds and Wind Loads on Residential Buildings.” 20 minute oral presentation at the 12th Annual Mini-Technical Conference sponsored by the Palmetto Chapter of the American Meteorological Society, Columbia, SC, March 15, 2006.

Datin, Peter. (2005) “Overview of Research at the Boundary Layer Wind Tunnel.” Research presentation to the College of Engineering and Science Advisory Board, Clemson University, November 2, 2005.

Professional Experience

Engineering Intern, Gose and Associates, Stillwater, OK, January 2005-July 2005

- Structural engineering for residential construction (both wood and steel)
- Hydraulic engineering (lagoon design)
- Surveying (residential, commercial, site layout)

Student Intern, Capitol Engineering, Inc., Alpharetta, GA, Summers 2002 & 2003

- Performed soil compaction tests and Proctor tests
- Performed construction work
- Interacted with engineers and contractors to ensure accurate transfer of data and information

Academic Honors and Awards:

- Alumni Fellowship, University of Florida (2007 – present)
- National Science Foundation Graduate Research Fellowship Program Honorable Mention (2006)

Professional Associations:

- Student Member, American Society of Civil Engineers (ASCE)
- Student Member, American Association of Wind Engineering (AAWE)
- Student Member, Forest Products Society

Leadership and Service:

- LDS Student Council (President: Oct. 2001-May 2003)
- Member, Tau Beta Pi Engineering Honor Society
- Cubmaster and Webelos Den Leader for Cub Scout Pack 841, Gainesville, FL (Sept. 2007-Nov. 2008)
- Eagle Scout, Boy Scouts of America
- Crew Advisor for Venture Crew 841, Gainesville, FL (Nov. 2008-present)