NATALIE K. P. BECKNELL, P.E.

ACADEMIC RANK: Instructor

DEGREES: BSCE, University of Arkansas, 2003
MSCE, University of Arkansas, 2005

UNIVERSITY OF ARKANSAS SERVICE:

Instructor, University of Arkansas, 2012-Present
Research Assistant, University of Arkansas, 2003-2005

RELATED EXPERIENCE:
Industrial/Consulting:
Civil Engineer, Garver, 2005-2011.
Summer Intern, Federal Highway and Transportation Department, Federal Aid, 2001
Summer Intern, Federal Highway and Transportation Department, Federal Lands, 2002

PROFESSIONAL REGISTRATION:
Professional Engineer, Arkansas, No. 13419

PROFESSIONAL ORGANIZATIONS AND SERVICE ACTIVITIES:
Member:
American Society of Civil Engineers (ASCE); NWA Branch - Past Treasurer, Past President
Chi Epsilon; Civil Engineering Honor Society – Member 2001-Present
Tau Beta Pi; Engineering Honor Society – Member 2004-Present, Student Chapter Advisor

HONORS AND AWARDS:
University of Arkansas College of Engineering Outstanding Young Alumni Award – 2010

PRINCIPAL PUBLICATIONS:
Master's Thesis
Natalie K. Peterson-Becknell (December 2005), *The Durability, Permeability, and Strength of Concrete Mixtures Containing Ground Granulated Blast-Furnace Slag and Fly Ash*

Sponsored Research Projects
Ground Granulated Blast Furnace Slag and Fly Ash in Concrete Mixtures, PI
Arkansas State Highway and Transportation Department ($174,522), 2003 - 04

Journal Publications
Becknell, K. and Hale, W. 2011. "Effect of Slag Grade and Cement Source on the Properties of Concrete", *International Journal of Concrete Structures and Materials*, 5 (2), 119 – 123.

Conference Publications
Becknell, N. and Hale, W. 2005. "Ternary Concrete Mixtures Containing Ground Granulated Blast Furnace Slag and Fly Ash", *Cement Combinations for Durable Concrete, Global Construction: Ultimate Concrete Opportunities Proceedings*, Dundee, Scotland, July, pp. 133-141.
Becknell, N. and Hale, W. 2005. "Developing Concrete Mixture Proportions Containing Ground Granulated Blast Furnace Slag and Fly Ash", *Transportation Research Board 84^{h} Annual Meeting*, Paper No. 05-1756, Washington, D.C., January.

Education Publications
Becknell, N., Hale, W., Freyne, S., Durham, S., and Lamanna, A. 2006. "Greencrete: A Project on Environmentally Friendly Concrete", *Proceedings of the ASEE Annual Conference and Exposition*, Paper No. 2006-1157, Chicago, IL, June.

PRESENTATIONS:

Conference Presentation

Becknell, N. and Hale, W.(presenter), "Mechanical Properties of Concrete Containing Slag Cement and Fly Ash", Advances in Concrete Using Slag Cement, ACI Fall 2005 Convention, Kansas City, MO, November 6-9, 2005.

Becknell, N. and Hale, W.(presenter), "Ternary Concrete Mixtures Containing Ground Granulated Blast Furnace Slag and Fly Ash", Cement Combinations for Durable Concrete, Global Construction: Ultimate Concrete Opportunities, Dundee, Scotland, July 5-7, 2005.

Peterson, N. and Hale, W. (presenter), "Developing Concrete Mixture Proportions Containing Ground Granulated Blast Furnace Slag and Fly As", 2005 Transportation Research Board, January 2005, Washington, D.C. Poster Presentation.

Peterson, N. (presenter) and Hale, W., "The Durability, Permeability, and Strength of Concrete Mixtures Containing Ground Granulated Blast Furnace Slag and Fly Ash", Research in Progress, ACI Spring Convention, March 14 – 18, 2004, Washington, D.C.

State and Local Presentations

Becknell, N. and Hale, W. (presenter), "Ground Granulated Blast Furnace Slag and Fly Ash in Concrete Mixtures, TRC 0405", Arkansas Highway and Transportation Department, Transportation Research Committee, May 18, 2005, Jonesboro, AR.

Becknell, N. and Hale, W. (presenter), "Improving Concrete Performance Through the Use of Slag Cement and Fly Ash", American Concrete Institute - Tulsa, OK Chapter, December 16, 2004, Tulsa, OK.

Becknell, N. and Hale, W. (presenter), "Improving Concrete Performance Through the Use of Blast Furnace Slag and Fly Ash", American Concrete Institute – 2004 Annual Meeting and Conference, November 9, 2004, Little Rock, AR.

Becknell, N. and Hale, W. (presenter), "Ground Granulated Blast Furnace Slag and Fly Ash in Concrete Mixtures, TRC 0405", Arkansas Highway and Transportation Department, Transportation Research Committee, November 4, 2004, Little Rock, AR.

Peterson, N. and Hale, W. (presenter), "Ground Granulated Blast Furnace Slag and Fly Ash in Concrete Mixtures, TRC 0405", Arkansas Highway and Transportation Department, Transportation Research Committee, April 28, 2004, Fayetteville, AR.

Education Presentations

Becknell, N., Hale, W. (presenter), Freyne, S., Durham, S., and Lamanna, A., "Greencrete: A Project on Environmentally Friendly Concrete", American Society of Engineering Education Annual Conference, June 19 – 21, 2006, Chicago, IL.