

**Andrew F. Braham, Ph.D., P.E.**

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**Education**

University of Illinois, Urbana, IL	Civil Engineering	Ph.D., 2008
University of Wisconsin, Madison, WI	Civil Engineering	M.S., 2002
University of Wisconsin, Madison, WI	Civil Engineering	B.S., 2000

**Appointments**

Associate Professor, University of Arkansas, Fayetteville, AR	08/2016 – current
Assistant Professor, University of Arkansas, Fayetteville, AR	01/2011 – 08/2016
Postdoctoral Research Fellow, Southeast University, Nanjing, China	02/2009 – 11/2010
Graduate Research Assistant, Illinois Leadership Center, Urbana, IL	08/2007 – 05/2008
Field and Research Engineer, Koch Materials Company	06/2002 – 11/2004

**Selected Peer-Reviewed Publications** (a full list can be found at my website above)

- Smith, S., Henrichs, C., Braham, A. Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation, Vol. 45, No. 2, March 2017.
- Yeung, E., Braham, A., Barnat, J. Exploring the Effect of Asphalt-Concrete Fabrication and Compaction Location on Six Compaction Metrics, *Journal of Materials in Civil Engineering*, Vol. 28, No. 12, December 2016.
- Yang, S., Braham, A., Wang, L., Wang, Q. Influence of Aging and Moisture on Laboratory Performance of Asphalt Concrete, *Construction and Building Materials*, Vol. 115, 2016, pp. 527-535.
- Jackson, A., Braham, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, *Journal of Testing and Evaluation*, Vol. 44, No. 4, July 2016, pp. 1698-1705.
- Hill, R., Braham, A. Quantifying Timing of Return to Traffic for Asphalt Cement Based Full Depth Reclamation Mixtures in the Laboratory, *Journal of Testing and Evaluation*, Vol. 44, No. 1, January 2016, pp. 555-564.
- Braham, A. Comparing Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Pavement Maintenance and Rehabilitation Strategies, *Transportation Research Record: Journal of the Transportation Research Board*, Jan 2016, Vol. 2573, pp. 49-59.
- Braham, A., Steger, R., Lynn, T., and Pyle, R. Characterizing Compactability of High RAP and Warm Mix Asphalt Mixtures in the Superpave Gyrotory Compactor, *Journal of Testing and Evaluation*, Vol. 43, Issue 3, May 2015, pp. 535-543.
- Braham, A., Howard, I., Barham, J., and Cox, B. Characterising emulsion effects on aged asphalt concrete surfaces using Bending Beam Rheometer mixture beams, *International Journal of Pavement Engineering*, Vol. 16(7), August 2015, pp. 620-631.
- Ni, F., Yang, S., Zhu, Y., and Braham, A. Capturing mixed-mode cracking of asphalt concrete using the Arcan test, *International Journal of Pavement Engineering*, Vol. 15, Issue 1, January 2014, pp. 43-50.
- Braham, A., Mudford, C. The Development of Master Fracture Curves for Asphalt Concrete. *Journal of Materials in Civil Engineering*, Vol. 25, No. 11, November 2013, pp. 1631-1637.

**Synergistic Activities**

- Creator of “Pavinar” webinar series
- Editorial Board Member for *Journal of Testing and Evaluation* and *Road Materials and Pavement Design*
- Journal reviewer for *Association of Asphalt Paving Technologists, Construction and Building Materials, International Journal of Pavement Engineering, Journal of Materials in Civil Engineering, Journal of Testing and Evaluation, Road Materials and Pavement Design, Transportation Research Record*
- Member of Transportation Research Board committees: Characteristics of Bituminous Materials, AFK20; Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements, AFK50; Committee on Pavement Preservation, AHD18
- Member of University of Arkansas committees: College of Engineering Technology Committee; Transportation Faculty Search Committee

**Collaborators – last two years**

*Barham, Jason* (Subsea Pipeline Engineer at Cronus Technology, Inc); *Cox, Ben* (Mississippi State University); *Chowdhury, Nazmul* (Missouri Department of Transportation); *Hanz, Andrew* (MTE Services); *Henrichs, Chase* (BNSF Railway); *Hill, Robert* (The Schemmer Associates); *Hernandez, Sarah* (University of Arkansas); *Hossain, Zahid* (Arkansas State University); *Howard, Isaac* (Mississippi State University); *Jackson, Alex* (Barnhart Crane & Rigging); *Reinke, Gerald* (Mathy Construction); *Ryan, John* (Kimley Horn & Associates); *Smith, Sadie* (University of Arkansas); *Steger, Richard* (Ingevity); *Underwood, Shane* (Arizona State University); *Wang, Lianfang* (Hebei Traffic Planning and Design Institute); *Wang, Qingkai* (Hebei Traffic Planning and Design Institute); *Yang, Shu* (Hunan University)

**Courses Taught at University of Arkansas**

*Transportation Engineering* (seven semesters; junior); *Sustainability in Civil Engineering* (six semesters; senior/grad); *Advanced Materials Characterization* (one semester; grad/senior); *Structural Design of Pavement Systems* (two semesters; grad/senior); *Transportation Pavement and Materials* (one semester; senior/grad)

**Graduate Advisors and Postdoctoral Sponsors**

Postdoctoral Research Fellow, Dr. Fujian Ni, Southeast University, Nanjing, China  
Ph.D., Dr. William Buttler, University of Illinois at Urbana-Champaign, USA  
M.S., Dr. Hussain Bahia, University of Wisconsin – Madison, USA

**Thesis Advisor and Postgraduate-Scholar Sponsor**

Ph.D. – Sadie Smith (2016-current); Airam Morales (2016-current); Shu Yang (2016)  
M.S. – Erica Yeung (2015 – current); Elvis Castillo (2016); Airam Morales (2016); Sadie Smith (2015); Chase Henrichs (2015); Alex Jackson (2014); John Ryan (2014); Amanda Garbacz (2014, degree awarded posthumous); Rob Hill (2013)

**Funding Sources**

Arkansas State Highway and Transportation Department, Asphalt Emulsion Manufacturing Association, China Postdoctoral Science Foundation, Hebei Province (China), Mack-Blackwell Rural Transportation Center, National Natural Science Foundation of China, National Science Foundation, private industry, SEC Visiting Faculty Travel Grant Program, Southeast University (Nanjing, China), University of Arkansas Department of Civil Engineering, University of Arkansas College of Engineering, Women’s Giving Circle