

**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
Field and Research Engineer, Koch Materials Company	06/2002 – 11/2004

**Books**

- Braham, A. Fundamentals of Sustainability in Civil Engineering, *CRC Press*, 1<sup>st</sup> Edition, ISBN: 978-1498775120, April, 2017.

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

- Wills, J., Caro, S., Braham, A. Influence of Material Heterogeneity in the Fracture of Asphalt Mixtures, *International Journal of Pavement Engineering*, online June 2017.
- Smith, S., Henrichs, C., Braham, A. Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation, *Journal of Testing and Evaluation*, Vol. 45, No. 2, March 2017.
- Yang, S., Braham, A., Underwood, S., Hanz, A., Reinke, G. Correlating Field Performance to Laboratory Dynamic Modulus from Indirect Tension and Torsion Bar, *Road Materials and Pavement Design*, Vol. 18, Issue S1, January 2017, pp. 104-127.
- 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.
- 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.
- 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, July 2016, pp. 527-535.
- Yang, S., Braham, A. R-Curves Characterisation Analysis for Asphalt Concrete, *International Journal of Pavement Engineering*, online April 2016.
- 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.
- 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.
- Ryan, J., Braham, A. The Characterization of Foamed Asphalt Cement Using a Rotational Viscometer, *International Journal of Pavement Engineering*, December, 2015.

**Synergistic Activities**

- Developed and provided two on-demand online certificate programs with Asphalt Emulsion Manufacturing Association and Global Campus
- Developed and provided “Pavinar” webinar series
- Editorial Board Member for *Journal of Testing and Evaluation* and *Road Materials and Pavement Design*
- Journal reviewer for multiple journals in pavement materials
- Director-At-Large for the Association of Asphalt Paving Technologists
- Chair of Young Members Committee for the Asphalt Emulsion Manufacturing Association
- Member of Transportation Research Board committees: Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements, AFK50; Committee on Pavement Preservation, AHD18
- Member of University of Arkansas: College of Engineering Technology Committee

**Collaborators – last two years**

*Aschenbrener, Timothy* (Federal Highway Administration); *Barnat, Jim* (Road Science); *Caro, Silvia* (University of Los Andes); *Hanz, Andrew* (MTE Services); *Henrichs, Chase* (Crafton Tull); *Hill, Robert* (The Schemmer Associates); *Hernandez, Sarah* (University of Arkansas); *Hossain, Zahid* (Arkansas State University); *Jackson, Alex* (Barnhart Crane & Rigging); *Kent, John* (University of Arkansas); *Messadi, Tahar* (University of Arkansas); *Newman, Winifred Elysse* (University of Arkansas); *Nutter, Darin* (University of Arkansas); *Qiu, Shi* (Beijing University of Technology); *Reinke, Gerald* (Mathy Construction); *Smith, Sadie* (University of Arkansas); *Underwood, Shane* (Arizona State University); *Wang, Kelvin* (Oklahoma State University); *Wang, Lianfang* (Hebei Traffic Planning and Design Institute); *Wang, Qingkai* (Hebei Traffic Planning and Design Institute); *Wang, Wenjuan* (Capital University of Economics and Business); *Wills, Jaime* (University of Los Andes); *Yang, Shu* (Hunan University); *Yeung, Erica* (Burns & McDonnell); *Zhang, Allen* (Southwest Jiaotong University)

**Courses Taught at University of Arkansas** (number of semesters, level)

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

**Thesis Advisor and Postgraduate-Scholar Sponsor**

Ph.D. – Airam Morales (2016-current); Sadie Smith (2016-current); Shu Yang (2016)  
M.S. – Erica Yeung (2017); 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 Department of Transportation, 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), Women’s Giving Circle