

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
Visiting Associate Professor, UPC, Barcelona, Spain	01/2018 – 06/2018
Assistant Professor, University of Arkansas, Fayetteville, AR	11/2010 – 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 Books and Special Publications (a full list can be found at my website above)

- Braham, A. (2020). [A Review of Asphalt Emulsion Papers in the Journal of the Association of Asphalt Paving Technologists, 1937-1970](#). University of Arkansas, Fayetteville, AR, USA.
- Underwood, S., Braham, A. (2019). Fatigue or Not Fatigue, That is the Question. A White Paper. Posted free for download on ResearchGate, [doi: 10.13140/RG.2.2.13898.41921/1](https://doi.org/10.13140/RG.2.2.13898.41921/1).
- Braham, A. (2017). [Fundamentals of Sustainability in Civil Engineering, CRC Press](#), First Edition, ISBN: 978-1498775120.
- Braham, A. (2017). [Introduction to Asphalt Emulsions \(Certificate 1\)](#). In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.

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

1. Yang, S., Braham, A., Hossain, Z. Relationship between Rank of Laboratory Testing Results and Field Performance of Asphalt Interstate Pavement, *Journal of Materials in Civil Engineering*, 32(9), September 2020, [doi: 10.1061/\(ASCE\)MT.1943-5533.0003322](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003322).
2. Casillas, S., Braham, A. Quantifying effects of laboratory curing conditions on workability, compactability, and cohesion gain of cold in-place recycling. *Road Materials and Pavement Design*, published online April 2020, [doi: 10.1080/14680629.2020.1753101](https://doi.org/10.1080/14680629.2020.1753101).
3. Kiihnl, L., Braham, A. Exploring the influence of pavement preservation, maintenance, and rehabilitation on Arkansas' highway network: an education case study. *International Journal of Pavement Engineering*, published online June 2019, [doi: 10.1080/10298436.2019.1628960](https://doi.org/10.1080/10298436.2019.1628960).
4. Yeung, E., Braham, A. The Influence of Time After Crushing for Cold In-place Recycling on Compaction and Raveling, *Transportation Research Record: Journal of the Transportation Research Board*, Vol 2673(3), 2019, 419-426, [doi: 10.1177/0361198119834560](https://doi.org/10.1177/0361198119834560).
5. Espinosa, L., Wills, J., Caro, S., Braham, A. Influence of the morphology of the cracking zone on the fracture energy of HMA materials, *Materials and Structures*, 52:35, 2019, [doi: 10.1617/s11527-019-1334-0](https://doi.org/10.1617/s11527-019-1334-0).

Selected Awards and Recognitions (a full list can be found at my website above)

- 2019 President's Award – Asphalt Emulsion Manufacturing Association
- 2016, 2018 Outstanding Teacher Award – Civil Engineering, University of Arkansas
- 2012, 2014, 2018 Outstanding Mentor Award – University of Arkansas
- 2018 "Private Sector Applicability" Paper Award - TRB Intermodal Freight Transport Committee (AT045) for "Development of a Cost Estimation Framework for Potential Transload Facilities."

Selected Synergistic Activities (a full list can be found at my website above)

- Developed and provided four on-demand online certificate programs with Asphalt Emulsion Manufacturing Association and Global Campus (go to <https://training.uark.edu/> and search "asphalt emulsion")
- Developed with three colleagues "LeadershipWWEB" leadership podcast series (<https://soundcloud.com/user-561194034>)
- Developed and provided "Pavinar" webinar series (YouTube Channel: https://www.youtube.com/channel/UCbo-D_tfDFDzzn9NUPw0o8g)
- Editorial Board Member for *Road Materials and Pavement Design*
- Journal reviewer for multiple journals in pavement materials
- Chair of Pavement Preservation and Recycling Alliance Sustainability Committee
- Member of TRB Committee on Pavement Preservation, AHD18
- Member of University of Arkansas: College of Engineering Technology Committee
- Invited presentation at Warren Lecture Series, University of Minnesota – Twin Cities. Presented "Taking Care of our Roads: Pavement Maintenance and Rehabilitation." Minneapolis, MN, November 30, 2018. (<https://www.youtube.com/watch?v=5CCbjpT7IL0>)

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

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

Thesis Advisor and Postgraduate-Scholar Sponsor

Ph.D. –Sadie Casillas (2016-current); Airam Morales (2019); Shu Yang (2016)
M.S. – Pedro Diaz Romero (2020-current); Logan Kiihnl (2020); 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)

Key Funding Sources

Arkansas Department of Transportation, Asphalt Emulsion Manufacturing Association, China Postdoctoral Science Foundation, Federal Highway Administration (FHWA), Hebei Province (China), Mack-Blackwell Rural Transportation Center, National Natural Science Foundation of China, National Science Foundation, New Jersey Department of Transportation, private industry (5 companies), SEC Visiting Faculty Travel Grant Program, Southeast University (Nanjing, China), University of Arkansas, Women's Giving Circle