

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
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., Waller, M., English, J. (2022). Values-Driven Authentic Leadership: Essential Lessons from the LeadershipWWEB Podcast Series, EPIC Books, The University of Arkansas Press, Fayetteville, AR, USA, [ISBN: 978-1954892064](https://doi.org/10.1017/9781954892064).
- Braham, A., Casillas, S. (2021). Fundamentals of Sustainability in Civil Engineering, CRC Press, Second Edition, [ISBN: 978-0367420253](https://doi.org/10.1016/B978-0-367-42025-3).
- Casillas, S., Braham, A., Dave, E., Sias, J. (2020). Asphalt Emulsion Cold In-Place Recycling Mix Design Practices: Designing a Semi-Bound Pavement Material – White Paper. Posted free for download on ResearchGate, [doi: 10.13140/RG.2.2.28672.46083](https://doi.org/10.13140/RG.2.2.28672.46083).
- Braham, A. (2020). [Introduction to Asphalt Emulsions \(Certificate 1\)](https://doi.org/10.1017/9781954892064). Version 2.0 in *Pavement Maintenance and Rehabilitation Professional Development Courses*, 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).

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

1. Casillas, S., Braham, A. Development of a Performance-Based Approach to Asphalt Emulsion Selection for Cold In-Place Recycling Applications, *Transportation Research Record: Journal of the Transportation Research Board*, published online March 2022, [doi: 10.1177/03611981221082569](https://doi.org/10.1177/03611981221082569).
2. Morales Vega, A., Yang, S., Braham, A. Evaluation of Semicircular Bend Geometric Properties for Asphalt Concrete Testing, *Journal of Materials in Civil Engineering*, 33(12), 2021, [doi: 10.1061/\(ASCE\)MT.1943-5533.0003976](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003976).
3. Casillas, S., Braham, A. Quantifying Pavement Preservation in Arkansas. *Journal of Transportation Engineering, Part B: Pavements*, 147(4), 2021, [doi: 10.1061/JPEODX.0000297](https://doi.org/10.1061/JPEODX.0000297).
4. 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*, 22(5), 2021, [doi: 10.1080/10298436.2019.1628960](https://doi.org/10.1080/10298436.2019.1628960).

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

- 2021 Teaching Academy Fellow – University of Arkansas Teaching Academy
- 2021, 2018, 2014, 2012 Outstanding Mentor Award – University of Arkansas
- 2019 President’s Award – Asphalt Emulsion Manufacturing Association
- 2018, 2016 Outstanding Teacher Award – Civil Engineering, University of Arkansas
- 2016 Award of Recognition – Association of Asphalt Paving Technologist

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 59 webinars for “Pavinar” webinar series (YouTube Channel: https://www.youtube.com/channel/UCbo-D_tfDFDzzn9NUPw0o8g)
- Given 175+ presentations around the world
- 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, AKT20
- Mentoring Graduate Students and Postdocs Workshop Series: University of Arkansas (completed fall 2021)
- Member of University of Arkansas: College of Engineering Technology Committee and College of Engineering Distance Education Committee

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

Pavement Maintenance and Rehabilitation (one semester; grad/senior); *Sustainability in Construction Management* (one, senior/grad; two, online, grad); *Sustainability in Civil Engineering* (eight, senior/grad; seven, online, grad); *Transportation Infrastructure* (four, senior); *Production and Construction of Pavement* (one semester; grad/senior), *Think Big – Perspectives from Pavement Research* (one semester; grad), *Perpetual Pavements Plus* (two, grad/senior); *Structural Design of Pavement Systems* (three, grad/senior)

Thesis Advisor and Postgraduate-Scholar Sponsor

Ph.D. – S. Casillas (2020); A. Morales (2019); S. Yang (2016)

M.S. – T. Turben (2022-current); J. Stonestreet (2022-current); D. Murphy (2021-current); P. Diaz Romero (2022); L. Kiihnl (2020); E. Yeung (2017); E. Castillo (2016); A. Morales (2016); S. Smith (2015); C. Henrichs (2015); A. Jackson (2014); J. Ryan (2014); A. Garbacz (2014, degree awarded posthumous); R. Hill (2013)

Key Funding Sources

Arkansas Department of Transportation (ARDOT), Asphalt Emulsion Manufacturing Association (AEMA), Asphalt Institute Foundation, China Postdoctoral Science Foundation, Federal Highway Administration (FHWA), Hebei Province (China), International Slurry Surfacing Association (ISSA), Mack-Blackwell Rural Transportation Center (MBTC), National Cooperative Highway Research Program (NCHRP), National Natural Science Foundation of China, National Science Foundation (NSF), private industry (7 companies), SEC Visiting Faculty Travel Grant Program, Southeast University (Nanjing, China), University of Arkansas, Women’s Giving Circle