

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

Professor, University of Arkansas, Department of Civil Engineering

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Email: [afbraham@uark.edu](mailto:afbraham@uark.edu) Website (QR code): [www.andrewbraham.com](http://www.andrewbraham.com)**Education**

University of Illinois, Urbana, IL

Civil Engineering

Ph.D., 2008

University of Wisconsin, Madison, WI

Civil Engineering

M.S., 2002; B.S. 2000

**Appointments**

Professor, University of Arkansas, Fayetteville, AR

08/2022 – present

Assistant/Associate Professor, University of Arkansas, Fayetteville, AR

08/2010 – 08/2022

Visiting Associate Professor, UPC, Barcelona, Spain

01/2018 – 06/2018

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., Timm, D., Hall, K., Myers, L. (2023). Integrating the Flexible Pavement Life Cycle, Transportation Research Circular, E-C286, October 2023. [ISSN 0097-8515](https://doi.org/10.3390/10298436).
- 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/10.3390/10298436).
- Braham, A., Casillas, S. (2021). Fundamentals of Sustainability in Civil Engineering, CRC Press, Second Edition, [ISBN: 978-0367420253](https://doi.org/10.3390/10298436).
- 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/10.13140/RG.2.2.28672.46083). 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).

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

1. Turben, T., Diaz-Romero, P., Braham, A. Establishing Particle Size Recommendations for Cationic Asphalt Emulsions, *Construction Materials*, MDPI, 2025, 5(2), 26, [doi: 10.3390/constrmater5020026](https://doi.org/10.3390/constrmater5020026).
2. Tiwari, A., Ansari, M.T., Cook, A., Hedden, J., Ogundipe, T., Ortlieb, J., Nunez, T., Roy, A., Turben, T., Braham, A. Comparative life-cycle cost analysis of flexible and rigid pavement: a case study of four Arkansas roadway sections, *International Journal of Pavement Engineering*, 26(1), 2025, [doi: 10.1080/10298436.2025.2489044](https://doi.org/10.1080/10298436.2025.2489044).
3. Turben, T., Ansari, M.T., Hedden, J., Ogundipe, T., Roy, A., Tiwari, A., Eiland, J., Braham, A. Comparison of Lab-Produced Asphalt Emulsions by Manufacturing Equipment Type, *Road Materials and Pavement Design*, Published online Oct 2024, [doi: 10.1080/14680629.2024.2409867](https://doi.org/10.1080/14680629.2024.2409867).

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

- 2025, 2021, 2018, 2014, 2012 Outstanding Mentor Award – University of Arkansas
- 2021 Teaching Academy Fellow – University of Arkansas Teaching Academy
- 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 four on-demand online certificate programs with AEMA and Global Campus (go to <https://training.uark.edu/> and search “engineering”)
- Developed and provided 86 webinars for “Pavinar” webinar series ([YouTube Channel](#)):
- Developed with three colleagues “LeadershipWWEB” leadership [podcast series](#)
- Given 230+ presentations around the world
- Associate Director of Southern Plains Transportation Center (SPTC)
- Chair of TRB Committee AKN18 “Pavement Maintenance, Preservation, and Rehabilitation”
- Co-chair of AASHTO TSP-2 Emulsion Task Force Research Subcommittee
- Member of ISSA Sustainability Committee
- Member of University of Arkansas College of Engineering: Technology Committee Distance Education Committee, and Promotion and Tenure Committee

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

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

**Thesis Advisor and Postgraduate-Scholar Sponsor**

Ph.D. – T. Ogundipe (start 2025); M. T. Ansari, A. Roy, T. Turben (start 2024), S. Casillas (2020); A. Morales (2019); S. Yang (2016)

M.S. – R. Fazeli (2025-current); A. Tiwari (2024-current); J. Hedden (2025); T. Ogundipe, T. Turben, M. T. Ansari, A. Roy, J. Stonestreet (2024); D. Murphy, P. Diaz Romero (2022); L. Kiihnl (2020); E. Yeung (2017); E. Castillo, A. Morales (2016); S. Smith, C. Henrichs (2015); A. Jackson, J. Ryan (2014); A. Garbacz (2014, 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), Southeast University (Nanjing, China), Southern Plains Transportation Center (SPTC), United States Army Corps of Engineering, Women's Giving Circle