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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

Professor, University of Arkansas, Fayetteville, AR Associate Professor, University of Arkansas, Fayetteville, AR Visiting Associate Professor, UPC, Barcelona, Spain Assistant Professor, University of Arkansas, Fayetteville, AR Postdoctoral Research Fellow, Southeast University, Nanjing, China Graduate Research Assistant, Illinois Leadership Center, Urbana, IL Field and Research Engineer, Koch Materials Company

Licensure

Professional Engineer (#15638), State of Arkansas	05/2013 – present
Engineer-In-Training (#1510240-500), State of Wisconsin	11/2000 - 11/2010

Books and Special Publications

- 1. Braham, A., Timm, D., Hall, K., Myers, L. (2023). Integrating the Flexible Pavement Life Cycle, Transportation Research Circular, E-C286, October 2023. <u>ISSN 0097-8515</u>.
- 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, <u>ISBN: 978-1954892064</u>.
- 3. Braham, A., Casillas, S. (2021). Fundamentals of Sustainability in Civil Engineering, *CRC Press*, Second Edition, <u>ISBN: 978-0367420253</u>.
- 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.
- 5. Braham, A. (2020). <u>Introduction to Asphalt Emulsions (Certificate 1)</u>. Version 2.0 in *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
- Braham, A. (2020). <u>Achieving Quality of Asphalt Emulsion (Certificate 4)</u>. In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
- 7. Braham, A. (2020). <u>A Review of Asphalt Emulsion Papers in the Journal of the Association of Asphalt Paving Technologists</u>, <u>1929-1970</u>. 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, <u>doi: 10.13140/RG.2.2.13898.41921/1</u>.



08/2022 - present

08/2016 - 08/2022

01/2018 - 06/2018

11/2010 - 08/2016

02/2009 - 11/2010

08/2007 - 05/2008

06/2002 - 11/2004

- Braham, A. (2018). <u>Manufacturing of Asphalt Emulsions (Certificate 3)</u>. In Pavement Maintenance and Rehabilitation Professional Development Courses, University of Arkansas, Fayetteville, AR, USA.
- 10. Braham, A. (2017). Fundamentals of Sustainability in Civil Engineering, *CRC Press*, First Edition, ISBN: 978-1498775120, <u>doi: 10.1201/9781315152073</u>.
- 11. Braham, A. (2017). <u>Applications of Asphalt Emulsions (Certificate 2)</u>. In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
- 12. Braham, A. (2017). Introduction to Asphalt Emulsions (Certificate 1). Version 1.0 in *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
- 13. <u>State of the Art and Practice in Fatigue Cracking Evaluation of Asphalt Concrete</u> <u>Pavements</u>, *Association of Asphalt Paving Technologists*, Version 1.0. Editors: A. Braham and S. Underwood, October 2016.

Peer-Reviewed Publications

- 1. Williams, A., Braham, A., Casillas, S. Quantifying the Workability of Cold In-Place Recycling in the Laboratory, *Journal of Testing and Evaluation*, 51(5), September/October 2023, pp. 3464-3477, doi.org/10.1520/JTE20220401
- Oyan, M., Hossain, Z., Islam, M., Braham, A. Chun, S. Relative Compatibility Analysis of Aggregate-Binder Systems in Arkansas against Stripping, *Journal of Materials in Civil Engineering*, 35(9), 2023, <u>doi.org/10.1061/JMCEE7.MTENG-15772</u>.
- 3. Poor, N., Braham, A. Road Use Contributions to Energy Consumption and Greenhouse Gas Emissions for Two Flexible Pavement Maintenance Strategies, *Journal of Testing and Evaluation*, 51(4), July/August 2023, pp. 2210-2229, <u>doi: 10.1520/JTE20220272</u>
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- 5. 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*, Vol 2676(5), 2022, pp. 104-115, doi: 10.1177/03611981221082569.
- 6. 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, <u>doi: 10.1061/(ASCE)MT.1943-5533.0003976</u>.
- Casillas, S., Braham, A. Quantifying Pavement Preservation in Arkansas. Journal of Transportation Engineering, Part B: Pavements, 147(4), 2021, doi: 10.1061/JPEODX.0000297.
- 8. 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, <u>doi: 10.1080/10298436.2019.1628960</u>.
- 9. 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*, 22:10, 2021, <u>doi: 10.1080/14680629.2020.1753101</u>.
- 10. Kiihnl, L., Braham, A. Developing a particle size specification for asphalt emulsion, *Construction and Building Materials*, Vol. 293, 2021, doi: 10.1016/j.conbuildmat.2021.123414.
- 11. Liu, T., Yang, S., Braham, A., Huang, R. An alternative of crack length extension in Rcurve analysis of asphalt concrete, *Construction and Building Materials*, Vol. 265, 2020, <u>doi: 10.1016/j.conbuildmat.2020.120741</u>.

- 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, <u>doi: 10.1061/(ASCE)MT.1943-5533.0003322</u>.
- 13. Casillas, S., Morales, A., Braham, A. Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis, *Journal of the Association of Asphalt Paving Technologists*, Vol. 88, 2019, pp. 687-717.
- 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, pp. 419-426, doi: 10.1177/0361198119834560.
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- 16. Wills, J., Caro, S., Braham, A. Influence of Material Heterogeneity in the Fracture of Asphalt Mixtures, *International Journal of Pavement Engineering*, 20(7), 2019, pp. 747-760, doi: 10.1080/10298436.2017.1334461.
- 17. Messadi, T., Newman, W., Braham, A., Nutter, D. Cyber-Innovation in the STEM Classroom, a Mixed Reality Approach, *Creative Education*, Vol. 9, 2018, pp. 2385-2393, doi: 10.4236/ce.2018.915179.
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- 19. Yeung, E., Braham, A. Evaluation and Compaction of Laboratory-Produced Recycled Asphalt Pavement in Cold In-Place Recycling, *Journal of Transportation Engineering, Part B: Pavements*, 144(3), 2018, <u>doi: 10.1061/JPEODX.0000054</u>.
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- 30. 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*, 28(12), December 2016, <u>doi: 10.1061/(ASCE)MT.1943-5533.0001682</u>.
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- 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, <u>doi: 10.1016/j.conbuildmat.2016.04.063</u>.
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- Milburn, A. B., Braham, A., and McClinton, J. Integrating qualitative components in quantitative courses using Facebook. *Interdisciplinary Journal of E-Learning and Learning Objects*, Vol. 10, 2014, pp. 229-246, <u>doi: 10.28945/2071</u>.
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- 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, <u>doi: 10.1061/(ASCE)MT.1943-5533.0000724</u>.
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- 44. Braham, A.F., Buttlar, W.G., Ni, F. Laboratory Mixed-Mode Cracking of Asphalt Concrete Using the Single-Edge Notch Beam. *Road Materials and Pavement Design*, Vol 11/4, 2010, pp. 947-968, <u>doi: 10.1080/14680629.2010.9690314</u>.
- 45. Braham, A.F., Buttlar, W.G., Clyne, T.R., Marasteanu, M.O., Turos, M.I. The Effect of Long-Term Laboratory Aging on Asphalt Concrete Fracture Energy. *Journal of the Association of Asphalt Paving Technologists*, Vol. 78, 2009, pp. 417-454.
- 46. Zofka, A., Braham, A.F. Comparison of Low-Temperature Field Performance and Laboratory Testing Using Ten Test Sections in Midwest. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2127, Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 107-114, <u>doi: 10.3141/2127-13</u>.
- Li, X., Braham, A.F., Marasteanu, M.O., Buttlar, W.G., Williams, C. Effect of Factors Affecting Fracture Energy of Asphalt Concrete at Low Temperature, *International Journal* of Road Material and Pavement Design, Vol. 9, Special Issue/2008, pp. 397-416, <u>doi: 10.1080/14680629.2008.9690176</u>.
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Other Publications

- 1. Braham, A. Clarification Provided for Spring 2023 Article on LCAs, PCRs, EPDs, Pavement Preservation Journal, Summer 2023, p. 31.
- 2. Braham, A., Poor, N. Inclusion of Road Use Phase in LCAs Shows Preservation Has Best Eco-Performance, Pavement Preservation Journal, Spring 2023, pp. 22-29.
- 3. Braham, A. Essential Specifications for Pavement Preservation, Maintenance, and Rehabilitation, TR News 339, May-June 2022, pp. 25-26.
- 4. Braham, A. Pavement Maintenance and Rehabilitation: Teaching the Next Generation, TR News 339, May-June 2022, pp. 10-11.
- 5. Braham, A., Cheng, D., Smith, K., Myers, L., Peshkin, D. Pavement Preservation, Maintenance, and Rehabilitation, TR News 339, May-June 2022, pp. 3-5.
- 6. O'Brien, T., Braham, A. Diversity and Inclusion in Higher Education: Two Case Examples, TR News 333, May-June 2021, pp. 22-25.
- 7. Braham, A. How to Excite and Educate College Students in Preservation, Pavement Preservation Journal, Winter 2020, pp. 37-39.
- 8. Casillas, S., Braham, A. Exploring the cost benefit value and relative emissions of pavement preservation treatments using RoadResource.org, *Pavement, Roadway, and Bridge Life Cycle Assessment 2020: Proceedings of the International Symposium on*

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- 11. Braham, A. Exploring Alternative Methods of Environmental Analysis, Proceedings of the *Pavement Life-Cycle Assessment Symposium*, Champaign, IL, April 12-13, 2017, pp.103-110.
- 12. Yang, S., Braham, A., Underwood, S., Hanz, A., Reinke, G. Correlating Field Performance to Laboratory Dynamic Modulus from Indirect Tension and Torsion Bar, *Association of Asphalt Paving Technologists,* Vol. 85, 2016, pp. 131-162.
- 13. Braham, A. Program Draws Students to Preservation, *Pavement Preservation Journal*, Summer 2016, pp. 40-41.
- 14. Yang, S., Braham, A., Chowdhury, N., Hossain, Z. Linking the Field and Lab Performance of Interstate Pavements, *International Symposium on Systematic Approaches to Environmental Sustainability in Transportation*, August 2-5, Fairbanks, AK, 2015, pp. 19-27.
- 15. Chowdhury, N., Hossain, Z., Yang, S., Braham, A. A Framework for Premature Pavement Distress Evaluation, *International Foundations Congress and Equipment Expo (IFCEE) 2015*, March 17-21, San Antonio, TX, 2015, pp. 2492-2501.
- 16. Braham, A., Bennett, A., McClinton, J. Using LinkedIn in the Classroom, *ASEE Midwest Section 2013 Annual Conference*, Salina, KS, September 18-20, 2013.
- Yang, S., Braham, A. The Investigation of R-Curves of Asphalt Concrete, *Airfield and Highway Pavement 2013: Sustainable and Efficient Pavements*, Edited by Imad L. Al-Qadi and Scott Murrell, Los Angeles, CA, June 9-12, 2013, pp. 1064-1074.
- 18. Hill, R., Braham, A. A Simple Field Test to Determine Return to Traffic on Full Depth Reclamation & Cold In-Place Recycling Projects. *International Symposium of Asphalt Emulsion Technology*, ISAET, Arlington, VA, October 10-12, 2012.
- 19. Hill, R., Braham, A. A Review of Full Depth Reclamation Asphalt Emulsion Mixtures. *International Symposium of Asphalt Emulsion Technology*, ISAET, Arlington, VA, October 10-12, 2012.
- 20. Garbacz, A., Braham, A. Identifying Fracture Energy Components of Asphalt Concrete. Proceedings of the *12th International Symposium, Advanced Technologies in Asphalt Pavements*, Seoul, South Korea, July 5-6, 2012, pp. 101-112.
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- 5. Braham, A., Hernandez, S. Enhancing Transportation Engineering for Students at the University of Arkansas, Final report for *Federal Highway Administration, Strategic Highway Research Program 2*, FHWA grant number 693JJ31750023, March 2019.
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- 11. Yang, S., Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province. Final report for *Hebei Province, China*, March 2014 (in Chinese and English).
- 12. Braham, A. Visit to University of Florida. Final report for 2013 SEC Travel Grant *Program*, March 2013.
- 13. Hill, R., Jackson, A., Smith, S. Braham, A. Exploring Different Forms of Base Stabilization. Final report for *Mack-Blackwell Rural Transportation Center*, MBTC-3033, July 2012.
- 14. Braham, A. The Next Generation of Data Collection: A Collaboration Between the US and China. Final report for *National Science Foundation, OISE Catalyzing New Intl Collab*, proposal number 1132625, July 2012.
- 15. Braham, A. Development of the Arcan Test Configuration to Test Mixed-Mode Characteristics of Asphalt Concrete. *Postdoctoral Research Dissertation*, Southeast University, Nanjing, China, 2010.
- 16. Braham, A. Mixed-Mode Fracture Characteristics of Asphalt Concrete Using the Arcan Configuration. Final report for *National Natural Science Foundation of China*, grant number 50950110342, September 2010.

- 17. Braham, A.F. Fracture Characteristics of Asphalt Concrete in Mode I, Mode II, and Mixed Mode. *Ph.D. Dissertation*, University of Illinois at Urbana-Champaign, Urbana, IL, 2008.
- Marasteanu, M., Zofka, A., Turos, M., Li, X., Velasquez, R., Li, X., Buttlar, W., Paulino, G., Braham, A., Dave, E., Ojo, J., Bahia, H., Williams, C., Bausano, J., Gallistel, A., McGraw, J. Investigation of Low Temperature Cracking in Asphalt Pavements. Final report for *National Pooled Fund Study* 776, MN/RC 2007-43, October 2007.
- 19. Braham, A. The Use of Blended Recycled Foundry Sand in Hot Mix Asphalt. *M.S. Thesis*, University of Wisconsin, Madison, WI, 2002.

Invited Talks

- 1. Invited presentation for the Pennsylvania Association of Asphalt Material Applicators. Presented "Putting Sustainability into Practice," Boalsburg, PA, October 26, 2023.
- Invited presentation for Mexican Asphalt Conference. Presented "Cold Mix Asphalt: Closing the Life Cycle," 12th Congreso Mexicano del Asfalto, Cancun, Mexico, August 22-25, 2023.
- 3. Invited presentation for Nouryon Asphalt Applications School. Presented "Cold Recycling of Asphalt," Bridgewater, NJ, December 14, 2022.
- 4. Invited presentation for Liquid Asphalt Distributors Association of New York. Presented "Surface Treatments for Flexible Pavement." Online, November 16, 2020.
- Invited presentation for Michigan State University CEE Seminar. Presented "Perpetual Pavements Plus (PP+) – Improving Traditional Perpetual Pavements." Online, October 16, 2020.
- 6. Invited presentation at ARRA Semi-Annual Meeting. Presented "RoadResource.org: Let's Scratch Below the Surface." Monterey, CA, October 22, 2019.
- 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 (<u>https://www.youtube.com/watch?v=5CCbjpT7IL0</u>).
- Invited presentation at ARRA Semi-Annual Meeting. Presented "Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Maintenance and Rehabilitation Strategies." Minneapolis, MN, October 18, 2017 (<u>https://www.youtube.com/watch?v=QIWRGuGp3J4</u>).
- Invited presentation at Rocky Mountain Asphalt Conference. Presented "Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Maintenance and Rehabilitation Strategies." Denver, CO, February 22, 2017.
- 10. Invited presentation at Transportation Research Congress Young Investigator Forum. Presented "Transportation Materials and Sustainability." Beijing, China, June 7, 2016.
- 11. Invited lecture to Introduction to Soil Mechanics course at Seoul National University of Science & Technology. Presented "College in the United States." Seoul, South Korea, June 14, 2011.
- 12. Invited presentation at University of Mississippi. Presented "Effect of Binder Type, Aggregate, and Mixture Composition on the Fracture Energy of Hot Mix Asphalt." Oxford, MS, March 24, 2011.
- 13. Invited presentation at the Low-Carbon, Green Asphalt Pavement Technology Conference. Presented "Warm Mix Asphalt in the United States." Nanjing, China, October 21, 2010.
- 14. Invited presentation at Chongqing Jiaotong University. Presented "Innovative Methods of Researching Cracking of Asphalt Concrete." Chongqing, China, May 20, 2010.
- Invited presentation at University of Wisconsin Madison. Presented "Capturing Mixed-Mode Cracking in Asphalt Concrete Using the Arcan Specimen." Madison, WI, January 19, 2010.

16. Invited presentation at Southeast University. Presented "Cracking in Asphalt Concrete Pavements." Nanjing, China, March 19, 2008.

Presentations

- 1. Braham, A. Advancing Environmental Product Declarations (EPDs) for Asphalt Emulsions, FHWA and PPRA Webinar, November 1, 2023.
- 2. Braham, A. Balanced Mix Design: Comparing Texas, Arkansas, and Oklahoma, Oklahoma Transportation Research Day, Oklahoma City, OK, October 17, 2023. <u>Click</u> <u>here to watch on YouTube</u>.
- 3. Braham, A. Environmental Product Declarations: HMA Treatments (a.k.a. Flexible Pavement Treatments), National Pavement Preservation Conference, NPPC23, Indianapolis, IN, September 19, 2023.
- 4. Braham, A. Pavement Preservation College Curriculum, National Pavement Preservation Conference, NPPC23, Indianapolis, IN, September 19, 2023.
- Turben, T., Ferdous, T., Braham, A., Zhang, W. Impact of Equipment Type on Particle Size Measurement of Civil Engineering Materials, Poster Presentation, Petersen Asphalt Research Conference, Laramie, WY, July 17-20, 2023.
- Roy, A., Braham, A., Chen, J. Thermal and Chemical Characterization of Asphalt Emulsion through Thermogravimetric Analysis (TGA) and Fourier Transform Infrared (FTIR) Techniques, Poster Presentation, Petersen Asphalt Research Conference, Laramie, WY, July 17-20, 2023.
- 7. Braham, A. Collaborating Beyond Civil Engineering, Theta Tau Engineering Banquet, Fayetteville, AR, April 25, 2023.
- 8. Braham, A. NCHRP Project 14-44: Guide Specifications for the Construction of Tack Coats for Pavement Preservation Treatments, Transportation Research Board, Webinar: Guide Specifications, April 19, 2023.
- 9. Braham, A. Asphalt Emulsions and the Environmental Pillar of Sustainability, Oklahoma State University, Stillwater, OK, March 23, 2023.
- 10. Braham, A. ISSA Classroom Modules, 2023 AEMA-ARRA-ISSA Annual Meeting, Litchfield Park, AZ, March 2, 2023. <u>Click here to watch on YouTube</u>.
- 11. Braham, A. Student Research & Specifications for the Future, 2023 AEMA-ARRA-ISSA Annual Meeting, Litchfield Park, AZ, March 1, 2023. <u>Click here to watch on YouTube</u>.
- Braham, A., Hall, K. TRC2201: Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability, Balanced Mix Design Case Studies Workshop, Little Rock, AR, February 22-23, 2023.
- Braham, A., Hall, K. TRC1802: Performance-Based Asphalt Mixture Design (PBD) for Arkansas, Balanced Mix Design Case Studies Workshop, Little Rock, AR, February 22-23, 2023.
- 14. Braham, A. Pavement Preservation: EPD/LCA Updates, Western Regional Association for Pavement Preservation, Long Beach, CA, February 2, 2023.
- 15. Braham, A. Pavement Preservation Overview, 2023 Slurry Systems Workshop, Las Vegas, NV, January 17, 2023.
- Braham, A., Hall, K. TRC2201: Balanced Mix Design (BMD) and Reduced Gyrations, Quality Asphalt Conference, Arkansas Asphalt Pavement Association, Little Rock, AR, January 5, 2023.
- 17. Braham, A., Hall, K. Contractor participation in TRC 2201, ARDOT and Arkansas Asphalt Pavement Association virtual session, December 7, 2022.
- 18. Braham, A. Update on NCHRP 14-44 and 14-48, Emulsion Task Force, Indianapolis, IN, November 30, 2022.

- Braham, A., Hall, K. TRC2201: Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability, ARDOT and Arkansas Asphalt Pavement Association, Little Rock, AR, November 30, 2022.
- 20. Braham, A. Quantifying Pavement Preservation in Arkansas, 2022 Trans-SET Summit on Transportation Materials Innovation and Durability, November 1, 2022.
- 21. Poor, N., Braham, A. Road Use Contributions to Energy Consumption and Greenhouse Gas Emissions for Two Flexible Pavement Maintenance Strategies, International Society for Asphalt Pavement Symposium, San Jose, Costa Rica, October 25-27, 2022.
- 22. Braham, A., Timm, D. Enhancing Traditional Asphalt Concrete Perpetual Pavements: Perpetual Pavements Plus (PP+), International Society for Asphalt Pavement Symposium, San Jose, Costa Rica, October 25-27, 2022.
- 23. Diaz Romero, P., Casillas, S., Braham, A. Understanding the Cost and Life Extension Relationships between Flexible Pavement Maintenance and Rehabilitation Treatments, International Society for Asphalt Pavement Symposium, San Jose, Costa Rica, October 25-27, 2022.
- Braham, A. RoadResource.org Beyond the Basics, 2022 Pavement Recycling Summit, Asphalt Reclaiming and Recycling Association, Niagara Falls, ON, Canada, September 26-29. <u>Click here to watch on YouTube</u>.
- 25. Braham, A. Pervious Pavements, A Civil Engineering Perspective. Guest lecture for Biological Engineering (BENG) 4933: Sustainable Watershed Engineering, University of Arkansas, Fayetteville, AR, September 1, 2022.
- 26. Braham, A. Safety in graduate school, Graduate Student Training, University of Arkansas Fayetteville, Fayetteville, AR, August 19, 2022.
- 27. Braham, A. Use of Sustainability Concepts in the World of Modified Asphalt, Association of Modified Asphalt Producers Webinar (<u>https://youtu.be/6edX1SJDFE4</u>), July 13, 2022.
- Braham, A. TRC2201: Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability, 2022 TRC Transportation Engineering Conference & Equipment Expo, Hot Spring, AR, May 26, 2022.
- 29. Hossain, Z., Braham, A. TRC2102: Effect of Aggregate-Binder Compatibility on Performance of Asphalt mixtures in Arkansas, 2022 TRC Transportation Engineering Conference & Equipment Expo, Hot Spring, AR, May 26, 2022.
- 30. Braham, A. Examining the Impact of Maintenance and Rehabilitation Treatment Choice, 2022 TRC Transportation Engineering Conference & Equipment Expo, Hot Spring, AR, May 25, 2022.
- 31. Braham, A. Sustainability and Asphalt Emulsions, guest seminar, Auburn University, Auburn, AL, May 18, 2022.
- 32. Braham, A. Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis, Université Gustave Eiffel, Nantes, France, April 26, 2022.
- 33. Braham, A. A Broad Overview of Asphalt Emulsions (a.k.a. Bituminous Emulsions), guest lecture, University of Antwerp, Antwerp, Belgium, April 22, 2022.
- 34. Braham, A. A Review of Cold In-place Recycling Research at University of Arkansas Fayetteville, University of Antwerp, Antwerp, Belgium, April 21, 2022.
- Braham, A. Asphalt Emulsion Activities at the University of Arkansas Fayetteville, Campus Scientifique et Technique COLAS, Magny-les-Hameaux, France, April 19, 2022.
- 36. Braham, A. A Review of Asphalt Emulsion Activities at the University of Arkansas Fayetteville, Routes de France and Section des Fabricants d'Émulsions Routières de Bitume, Paris, France, April 19, 2022.
- 37. Braham, A. Hot In-place Recycling (HIR): Overview and Case Studies, World of Asphalt 2022 Show and Conference, Nashville, TN, March 30, 2022.

- Braham, A. Quantifying the Benefits of Pavement Preservation in the Classroom, Southeast Pavement Preservation Partnership, Jekyll Island, GA, March 29, 2022.
- 39. Braham, A. Sustainable Aspects of ISSA Core Treatments, 2022 AEMA-ARRA-ISSA Annual Meeting, La Jolla, CA, February 24, 2022.
- 40. Braham, A. PPRA Sustainability Committee Update, 2022 AEMA-ARRA-ISSA Annual Meeting, La Jolla, CA, February 23, 2022.
- 41. Moriconi, E., Braham, A. Civil Engineering and Social Media, Don Tyson School of Innovation, Springdale, AR, February 15, 2022.
- Braham, A. Environmental Life Cycle Assessment of Asphalt Emulsion Treatments, Association of Modified Asphalt Producers 23rd Annual Conference, Houston, TX, February 3, 2022.
- 43. Braham, A., Houston, S. Asphalt Emulsion 102: Advanced Emulsions, PPRA/FHWA Pavement Preservation Webinar, January 27, 2022 (https://www.youtube.com/watch?v=J0a_n4LTDv4).
- 44. Braham, A. Sustainability and Environmental Impacts of Emulsions, 2022 Slurry Systems Workshop, Las Vegas, NV, January 20, 2022.
- 45. Braham, A. Preservation and Maintenance of Flexible Pavement, Transportation Research Board Annual Meeting, Workshop 1009, January 9, 2022.
- 46. Alford, K., Moriconi, E., Quinn, L., Braham, A. Civil Engineering + Social Media, Fayetteville High School, Fayetteville, AR, December 3, 2021.
- 47. Alford, K., Moriconi, E., Quinn, L., Braham, A. Civil Engineering + Social Media, virtual presentation to Helena–West Helena Central High School, November 15, 2021.
- 48. Braham, A. Pavement Preservation: The 30,000 Foot View, American Society of Civil Engineering, Northwest Branch, September 1, 2021.
- 49. Braham, A. Manufacturing of Asphalt Emulsion, 2021 National Pavement Preservation Conference, online, May 18, 2021 (<u>https://www.youtube.com/watch?v=nSv4obFJor4</u>).
- 50. Braham, A. The Need for Environmental Product Declarations (LCA, PCR, and EPD) with a Focus on Asphalt Emulsions, PPRA Webinar, March 4, 2021.
- 51. Braham, A. PPRA Sustainability Efforts Update, 2021 AEMA-ARRA-ISSA Annual Meeting, online, February 18, 2021.
- 52. Braham, A. The Need for Environmental Product Declarations (LCA, PCR, and EPD) with a Focus on Asphalt Emulsions, PPRA/FHWA Pavement Preservation Webinar, January 14, 2021 (<u>https://www.youtube.com/watch?v=BVFSUqBVBXg</u>).
- 53. Braham, A. Student's Look at Preservation Performance: Website RoadResource.org, Transportation Research Board Webinar, March 5, 2020.
- 54. Braham, A. Leveraging the Benefits of Pavement Preservation in Arkansas, National Cheng Kung University, Tainan, Taiwan, February 27, 2020.
- 55. Braham, A. Sustainability and Pavement Preservation, 2020 AEMA-ARRA-ISSA Annual Meeting, San Antonio, TX, February 17-21, 2020.
- 56. Braham, A. RoadResource.org in the University Classroom, Western Regional Association for Pavement Preservation, Sacramento, CA, January 29, 2020.
- 57. Casillas, S., Braham, A. Defining and Quantifying Pavement Preservation in Arkansas, AHD18/AKT20 Pavement Preservation Committee Meeting, 99th Transportation Research Board Annual Meeting, Washington, DC, January 14, 2020.
- 58. Braham, A. Pavement Preservation: The 30,000 ft View, University of Missouri, Columbia, MO, October 25, 2019.
- 59. Braham, A. Leveraging Pavement Preservation, Australian Road and Research Board, ARRB, Melbourne, Australia, August 22, 2019.

- 60. Braham, A., Perpetual Pavements Plus (PP+) Improving Traditional Asphalt Concrete Perpetual Pavements, 18th AAPA International Flexible Pavement Conference, Australian Asphalt Pavement Association, Sydney, Australia, August 21, 2019.
- 61. Braham, A., Kadrmas, A., Ishee, M. Developing an Online, On-Demand Certificate Program for Asphalt Emulsions, 18th AAPA International Flexible Pavement Conference, Australian Asphalt Pavement Association, Sydney, Australia, August 20, 2019.
- 62. Braham, A. AAPA and Preventative Maintenance. Arkansas Asphalt Pavement Association, Little Rock, AR, June 20, 2019.
- 63. Braham, A. An Introduction to Micro Surfacing and Slurry Seals. TRB Webinar: Building Better Micro Surfacing and Slurry Seals, April 24, 2019.
- 64. Braham, A. In the Field: Pavement Preservation, Maintenance, and Rehabilitation for Flexible Pavements. Connecting the DOTs, Webinar, March 27, 2019 (<u>https://www.youtube.com/watch?v=Vt6reY3bwr8</u>).
- 65. Braham, A. Teaching Panel Discussion for Biological Engineering (BENG) 5801: Graduate Seminar, University of Arkansas, Fayetteville, AR, March 11, 2019.
- 66. Braham, A. Roadway Maintenance: A United States Perspective. Yutave Engineering, Veracruz, Mexico, February 22, 2019.
- 67. Smith, S., Braham, A. Quantifying Workability, Compactability, and Cohesion Gain of Asphalt Emulsion Cold In-Place Recycling, 2019 AEMA-ARRA-ISSA Annual Meeting, Cancun, Mexico, February 20, 2019.
- 68. Braham, A. Exploring pavement network treatments using RoadResource.org, Graduate Student Seminar, University of Arkansas, Fayetteville, AR, January 31, 2019.
- 69. Braham, A., Kadrmas, A., Ishee, M. Asphalt Emulsion Manufacturing Association (AEMA) Online Certificate, 98th Transportation Research Board, January 16, 2019.
- Braham, A. Asphalt Emulsion Manufacturing Association (AEMA) Online Certificate, AASHTO Committee on Maintenance, Pavement Technical Working Group, AASHTO TSP•2 - Emulsion Task Force, Indianapolis, IN, November 28, 2018.
- 71. Braham, A., Hossain, Z., Aschenbrener, T. Evaluating Performance of Asphalt Pavements in Arkansas, TRB Webinar: Moisture Damage in Asphalt Pavements: Forensic Analyses and Research Needs, October 31, 2018.
- 72. Braham, A. Cold In-place Recycling (CIR) and Full Depth Reclamation (FDR), Guest lecture for Civil Engineering (CVEG) 4413: Pavement Evaluation and Rehabilitation, University of Arkansas, Fayetteville, AR, October 24, 2018.
- Braham, A. Pervious Pavements, A Civil Engineering Perspective. Guest lecture for Biological Engineering (BENG) 4933: Sustainable Watershed Engineering, University of Arkansas, Fayetteville, AR, September 25, 2018.
- 74. Braham, A. RoadHogs Pavement Research at the University of Arkansas, Huanan University, Changsha, China, August 8, 2018.
- 75. Braham, A. Asphalt Emulsion Manufacturing Association (AEMA) Online Certificate, AASHTO Committee on Maintenance, Pavement Technical Working Group, Charlotte, NC, July 24, 2018.
- 76. Braham, A. Pavement Maintenance and Rehabilitation, Garver, Fayetteville, AR, May 31, 2018.
- 77. Braham, A., Hernandez, S., Kent, J. Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment, 2018 TRC Transportation Engineering Conference, Hot Springs, AR, May 17, 2018.
- 78. Braham, A. Roadway Maintenance: A United States Perspective, Universitat Politècnica de Catalunya, Barcelona, Spain, May 7, 2018.

- 79. Braham, A. Asphalt Emulsion Manufacturing Association Online Certificate, International Bitumen Emulsion Foundation (IBEF) Symposium, Pavement Preservation and Recycling Summit (PPRS), Nice, France, March 26-28, 2018.
- 80. Braham, A. AMEA online certificate development update, 2018 AEMA-ARRA-ISSA Annual Meeting, Indian Wells, CA, February 20-23, 2018.
- 81. Braham, A., Williams, B. Maintenance and Rehabilitation, Back 2 Basics: NAPA webinar series, December 6, 2017.
- 82. Smith, S., Braham, A., Hernandez, S. Transportation to Opportunity: Increasing access to transportation for women and children in rural Arkansas, poster presentation at Women's Giving Circle, Fayetteville, AR, October 20, 2017.
- Braham, A. Pervious Pavements, A Civil Engineering Perspective. Guest lecture for Biological Engineering (BENG) 4933: Sustainable Watershed Engineering, University of Arkansas, Fayetteville, AR, October 5, 2017.
- Braham, A. Pavements and asphalt binders. Guest lecture for Civil Engineering (CVEG) 3413: Transportation Engineering, University of Arkansas, Fayetteville, AR, October 2, 2017.
- 85. Braham, A., Hernandez, S., Kent, J. Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment, TRC1608 final meeting, Fayetteville, AR, September 1, 2017.
- 86. Hall, K., Braham, A. Performance-Based Mixture Design (PDB) for Arkansas, TRC1802 kick-off meeting, Little Rock, AR, August 30, 2017.
- 87. Hossain, Z., Braham, A., Baumgardner, G., Mahmud, I., Alam, S., Morales, A. Performance of Asphalts Modified with Polyphosphoric Acid (PPA), TRC1501 final meeting, Little Rock, AR, June 28, 2017.
- 88. Smith, S., Asborno, M., Vines, J., Braham, A., Hernandez, S., Kent, J. Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment, poster presentation at Arkansas State Highway and Transportation Department, 104th Transportation Research Committee Meeting and Engineering Conference, Hot Springs, AR, May 16-17, 2017.
- Braham, A. Exploring Alternative Methods of Environmental Analysis, poster presentation at Pavement Life-Cycle Assessment Symposium, Champaign, IL, April 11-13, 2017.
- 90. Braham, A. Overview of Research: Andrew Braham, Arkansas Asphalt Pavement Association Young Leaders Meeting, Fayetteville, AR, April 5, 2017.
- Braham, A. Quantification and Characterization of Fracture Resistance in Asphalt Concrete Based on R-Curve Method, Universitat Politècnica de Catalunya, Barcelona, Spain, March 30, 2017.
- 92. Braham, A. Roadway Maintenance: A United States Perspective, Universitat Politècnica de Catalunya, Barcelona, Spain, March 28, 2017.
- 93. Braham, A. Pavement Maintenance and Rehabilitation: Assessing a Life Cycle Cost Analysis, Texas A&M University, Doha, Qatar, March 26, 2017.
- 94. Braham, A. AMEA online certificate development update, AEMA/ARRA/ISSA Annual Meeting, Tucson, AZ, February 17, 2017.
- 95. Braham, A. Warm Mix Asphalt versus Hot Mix Asphalt: A Reflection on Compaction Behavior, Arizona State University, Tempe, AZ, February 14, 2017.
- 96. Smith, S., Braham, A. FDR as a Bound and Unbound Layer: Academic Research, Incorporating Structural Rehabilitation Techniques into PavementME, Workshop 897, Transportation Research Board, Washington, DC, January 12, 2017.

- 97. Smith, S., Hernandez, S., Braham, A., Kent, J. Developing a Statewide Transload Facility Inventory: Challenges and Lessons Learned, Transportation Research Board, Washington, DC, January 9, 2017.
- Braham, A. Pervious Pavements, A Civil Engineering Perspective. Guest lecture for Biological Engineering (BENG) 4933: Sustainable Watershed Engineering, University of Arkansas, Fayetteville, AR, November 22, 2016.
- 99. Braham, A. Cost benefit analysis. Guest lecture for Architecture (ARCH) 303V-H: Sustainable Design and Construction through Multidisciplinary Learning, University of Arkansas, Fayetteville, AR, November 15, 2016.
- 100.Braham, A. Life cycle analysis. Guest lecture for Architecture (ARCH) 303V-H: Sustainable Design and Construction through Multidisciplinary Learning, University of Arkansas, Fayetteville, AR, November 8, 2016.
- 101. Underwood, S., Braham, A. State of the Art and Practice in Fatigue Cracking Evaluation of Asphalt Concrete Pavements Part 3, Association of Asphalt Paving Technologists webinar series, November 3, 2016.
- 102.Braham, A. Characterizing Emulsion Effects on Aged Asphalt Concrete Surfaces using Bending Beam Rheometer Mixture Beams, International Symposium on Asphalt Emulsion Technology, Crystal City, VA, November 2, 2016.
- 103. Braham, A., Underwood, S. State of the Art and Practice in Fatigue Cracking Evaluation of Asphalt Concrete Pavements Part 2, Association of Asphalt Paving Technologists webinar series, October 27, 2016.
- 104. Underwood, S., Braham, A. State of the Art and Practice in Fatigue Cracking Evaluation of Asphalt Concrete Pavements Part 1, Association of Asphalt Paving Technologists webinar series, October 20, 2016.
- 105. Smith, S., Hernandez, S., Braham, A. Transportation to Opportunity: Increasing access to transportation for women and children in rural Arkansas, Women's Giving Circle, Fayetteville, AR, October 7, 2016.
- 106.Braham, A. Green and cutting edge materials. Guest lecture for Architecture (ARCH) 303V-H: Sustainable Design and Construction through Multidisciplinary Learning, University of Arkansas, Fayetteville, AR, September 15, 2016.
- 107. Smith, S., Hernandez, S., Braham, A. Developing a Statewide Transload Facility Inventory: Challenges and Lessons Learned, Southern Plains Transportation Center Summer Symposium, Oklahoma City, OK, August 10, 2016.
- 108. Yang, S., Braham, A. Quantification and Characterization of Fracture Resistance in Asphalt Concrete Based on R-Curve Method, Southeast University, Nanjing, Jiangsu, China, June 13, 2016.
- 109. Braham, A. Tribology: Looking Beyond Laboratory Compaction Metrics for the Superpave Gyratory Compactor. An International Workshop on the Genome of Stonebased Civil Infrastructure Materials, Beijing, China, June 9, 2016.
- 110.Braham, A. Past Hebei Research and Present Compaction Research. Shijiazhuang, Hebei, China, June 8, 2016.
- 111. Braham, A. A Synthesis of Laboratory Compaction Metrics for the Superpave Gyratory Compactor, Transportation Research Congress, Beijing, China, June 7, 2016.
- 112. Morales, A., Castillo, E., Braham, A. Exploring Laboratory Performance of Polyphosphoric Acid, Hong Kong Polytechnic University, Hong Kong, China, June 1, 2016.
- 113.Braham, A., Hernandez, S., Kent, J. Locating Transload Facilities to Ease Highway Congestion & Safeguard the Environment, TRC1608 kickoff meeting, Little Rock, AR, May 12, 2016.

- 114. Aschenbrener, T., Braham, A., Hossain, Z. Evaluating Performance of Asphalt Pavement Based on Data Collected During IRP: Follow-up Analysis, TRC1404, Little Rock, AR, May 11, 2016.
- 115. Braham, A., Hernandez, S., Kent, J. Cottam, B., Richey, A., Sutherland, C. Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment, Arkansas State Highway and Transportation Department, Poster presentation at 102nd Transportation Research Committee Meeting and Engineering Conference, Little Rock, AR, April 5-6, 2016
- 116. Yang, S., Braham, A., Underwood, S., Hanz, A., Reinke, G. Correlating Field Performance to Laboratory Dynamic Modulus from Indirect Tension and Torsion Bar. 91st Association of Asphalt Paving Technologists Annual Meeting, Indianapolis, IN, March 14, 2016.
- 117. Braham, A. AAPT Newer Member Committee (NMC) update. 91st Association of Asphalt Paving Technologists Annual Meeting, Indianapolis, IN, March 14, 2016.
- 118.Braham, A. Asphalt Emulsion Residue Recovery: State of the State. AEMA/ARRA/ISSA Annual Meeting, Bonita Springs, FL, February 24, 2016.
- 119. Braham, A. Comparing Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Pavement Maintenance and Rehabilitation Strategies, Transportation Research Board, Washington, DC, January 12, 2016.
- 120. Braham, A. Pervious Pavements, A Civil Engineering Perspective. Guest lecture for Biological Engineering (BENG) 4933: Sustainable Watershed Engineering, University of Arkansas, Fayetteville, AR, September 29, 2015.
- 121. Yang, S., Braham, A, Chowdhury, N., Hossain, Z. Linking Field and Lab Performance of Interstate Pavements, International Symposium on Systematic Approaches to Environmental Sustainability in Transportation, Fairbanks, AK, August 3, 2015.
- 122. Yang, S., Braham, A., Hanz, A., Underwood, S. Correlating Field Performance to Laboratory Dynamic Modulus from Torsion Bar and Indirect Tension, TRC1404 update, Arkansas State University, Jonesboro, AR, June 25, 2015.
- 123. Yang, S., Braham, A, Chowdhury, N., Hossain, Z. TRC1404 Evaluating Performance of Asphalt Pavement Based on Data Collected During IRP, 100th Transportation Research Committee Meeting and Engineering Conference, North Little Rock, AR, May 21, 2015.
- 124. Henrichs, C., Braham, A. TRC1405 Examination of Full-Depth Reclamation Techniques for Shale Areas Across Arkansas, 100th Transportation Research Committee Meeting and Engineering Conference, North Little Rock, AR, May 21, 2015.
- 125. Yang, S., Braham, A., Chowdhury, N., Hossain, Z. TRC1404 Evaluating Performance of Asphalt Pavement Based on Data Collected During IRP, Poster Presentation, 100th Transportation Research Committee Meeting and Engineering Conference, North Little Rock, AR, May 20-21, 2015.
- 126. Henrichs, C., Braham, A. TRC1405 Examination of Full-Depth Reclamation Techniques for Shale Areas Across Arkansas, Poster Presentation, 100th Transportation Research Committee Meeting and Engineering Conference, North Little Rock, AR, May 20-21, 2015.
- 127. Henrichs, C., Braham, A. Laboratory Comparison of Full Depth Reclamation Stabilization Techniques Using Arkansas Field Materials, Graduate Student Seminar, University of Arkansas, Fayetteville, AR, April 30, 2015.
- 128. Smith, S., Braham, A. Comparing Layer Types for the Use of MEPDG for FDR Design, Graduate Student Seminar, University of Arkansas, Fayetteville, AR, March 12, 2015.

- 129. Henrichs, C., Braham, A. Laboratory Comparison of Full Depth Reclamation Stabilization Techniques Using Arkansas Field Materials, Poster Presentation, Association of Asphalt Paving Technologists, Portland, OR, March 7-11, 2015.
- 130. Smith, S., Braham, A. Comparing Layer Types for the Use of MEPDG for FDR Design, Poster Presentation, Association of Asphalt Paving Technologists, Portland, OR, March 7-11, 2015.
- 131. Yang, S., Braham, A. Dynamic Modulus, Fracture Toughness, and R-Curve of Asphalt Concrete, Poster Presentation, Association of Asphalt Paving Technologists, Portland, OR, March 7-11, 2015.
- 132.Braham, A. Sustainability in Civil Engineering, ASCE Day of Training, Fayetteville, AR, March 4, 2015.
- 133. Porter, R., Braham, A. Exploring Effects of Notch Geometries on Asphalt Fracture Testing, Poster Presentation, STEM Posters at the Capitol, Little Rock, AR, February 11, 2015.
- 134.Braham, A. Jackson, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, Fayetteville, AR, August 29, 2014.
- 135. Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province, Final Report Presentation, Hebei, Shijiazhuang, China, March 27, 2014.
- 136. Smith, S., Henrichs, C., Braham, A. Comparison of Lab Compaction Methods on Full Depth Reclamation, Poster Presentation, Association of Asphalt Paving Technologists, Atlanta, GA, March 16-19, 2014.
- 137. Smith, S., Braham, A. The Effect of Lab Compaction Method on the Strength of FDR Mixtures, AEMA-ARRA-ISSA Annual Meeting, Aventura, FL, February 27, 2014.
- 138. Smith, S., Braham, A. Full Depth Reclamation: A Pavement Maintenance & Rehabilitation Technique, County Judges Association of Arkansas 2014 Annual Winter Meeting, Little Rock, AR, February 14, 2014.
- 139. Braham, A. Sustainability and Pavements, INGETEC, Ingenieros Consultores, Bogota, Colombia, February 13, 2014.
- 140.Braham, A. Pavement Research at the University of Arkansas and Exploring Full Depth Reclamation (FDR), Universidad Distrital Francisco José de Caldas, Bogota, Colombia, February 13, 2014.
- 141. Braham, A. Sustainability and Pavements, Pontificia Universidad Javeriana, Bogota, Colombia, February 12, 2014.
- 142. Braham, A. The Importance of Pavement Maintenance and Rehabilitation of Pavements, Universidad de los Andes, Bogota, Colombia, February 12, 2014.
- 143.Braham, A. Sustainability and Pavements, Universidad de los Andes, Bogota, Colombia, February 10, 2014.
- 144.Braham, A. Pavement Research at the University of Arkansas and Exploring Full Depth Reclamation (FDR), Universidad de los Andes, Bogota, Colombia, February 7, 2014.
- 145. Braham, A., Steger, R., Lynn, T., and Pyle, R. Characterizing Compactability of High RAP and Warm Mix Asphalt Mixtures in the Superpave Gyratory Compactor, Poster Presentation, Transportation Research Board, Washington, DC, January 15, 2014.
- 146. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 12, 2014.
- 147. Ryan, J., Braham, A. Foamed Asphalt Viscosity, Presentation at Texas A&M University for Texas Transportation Institute, College Station, TX, August 5, 2013.
- 148. Yang, S., Braham, A. The Investigation of R-Curves of Asphalt Concrete, Presentation at ASCE Airfield and Highway Pavement Conference, Los Angeles, CA, June 11, 2013.

- 149. Yang, S., Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province, Presentation to Hebei Province research team, Shijiazhuang, Hebei, China, May 30, 2013.
- 150. Ryan, J., Braham, A. Workability of Foamed Warm Mix Asphalt, Association of Asphalt Paving Technologists, Poster Presentation, Denver, CO, April 7 10, 2013.
- 151. Yang, S., Braham, A. The Investigation of R-Curve and Crack Propagation in Asphalt Concrete, AAPT, Poster Presentation, Denver, CO, April 7 – 10, 2013.
- 152. Jackson, A., Braham, A. Sample Size Reduction of Cold In-Place Recycled Roadway Testing Specimens, Association of Asphalt Paving Technologists, Poster Presentation, Denver, CO, April 7 – 10, 2013.
- 153. SEC Travel Grant Presentation. Presented "Pavement Research at the University of Arkansas," Gainesville, FL, March 19, 2013.
- 154. Jackson, A., Braham, A. Sample Size Reduction of Cold In-Place Recycled Roadway Testing Specimens, Abstract to Contract competition, Poster Presentation, University of Arkansas, Fayetteville, AR, February 8, 2013.
- 155. Charmot, S., Braham, A., Zhang, K. Effect of Emulsion Content and Cement Loading on Cold Recycling Mixture Fracture Energy Measured Using the Semi Circular Bending Fracture Test, Poster Presentation, TRB, Washington, DC, January 16, 2013.
- 156. Braham, A., Howard, I., Barham, J. Effects of Emulsion Type on Bending-Beam Rheometer Field-Aged Asphalt Concrete Beams, Poster Presentation, Transportation Research Board, Washington, DC, January 16, 2013.
- 157. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 14, 2013.
- 158. Arkansas Portland Cement Concrete Pavement Conference. Presented "Concrete Pavement Research Overview," Little Rock, AR, August 7, 2012.
- 159. RILEM: 7th International Conference on Cracking in Pavements. Presented "Comparing the Slope of Load/Displacement Fracture Curves of Asphalt Concrete," Delft, Netherlands, June 20, 2012.
- 160. Royal Institute of Technology (KTH). Presented "An Overview of Pavement Research at the University of Arkansas," Stockholm, Sweden, June 15, 2012.
- 161. Harbin Institute of Technology. Presented "Asphalt Concrete Master Resistance Curves," Harbin, Heilongjiang, China, June 8, 2012.
- 162. Harbin Institute of Technology. Presented "Writing a Successful Journal Publication," Harbin, Heilongjiang, China, June 8, 2012.
- 163. Harbin Institute of Technology. Presented "Research at the University of Arkansas," Harbin, Heilongjiang, China, June 8, 2012.
- 164.2012 China-USA New Technology to Build and to Maintain Highway Technology Conference. Presented "Introduction to High Performance Asphalt Concrete Mixtures," Fengxin, Jiangxi, China, May 31, 2012.
- 165. Southeast University. Presented "Writing a Successful Journal Publication," Nanjing, Jiangsu, China, May 24, 2012.
- 166. Southeast University. Presented "Master Resistance Curves for Asphalt Concrete," Nanjing, Jiangsu, China, May 24, 2012.
- 167.94th Transportation Research Committee Meeting, Arkansas State Highway Transportation Department. Presented "New Pavement Materials Testing Equipment at the University of Arkansas at Fayetteville," Little Rock, AR, May 9, 2012.
- 168. Invited guest for 10th KXUA radio (University of Arkansas student radio) Sustainability Show, hosted by Gavin Smith, Fayetteville, AR, April 14, 2012.

- 169. Association of Asphalt Paving Technologists Board Meeting. Presented "Newer Member Committee (NMC) Update," Austin, TX, March 31, 2012.
- 170. TEAM Conference. Presented "An Overview of Hot In-place and Cold In-place Recycling," Branson, MO, March 16, 2012.
- 171. InVia Pavement Technologies and Sinopec. Presented "Pavement Research at the University of Arkansas," Tulsa, OK, March 14, 2012.
- 172. Missouri S&T and Arkansas Collaboration meeting. Presented "Transportation Capabilities and Projects." Rolla, MO, March 2, 2012.
- 173. Quality Asphalt Paving Conference. Presented "Pavinars Webinars for the Pavement Community." Little Rock, AR, January 5, 2012.
- 174. Arkansas Portland Cement Concrete Pavement Conference. Presented "Life Cycle Cost Analysis Versus Life Cycle Analysis." Little Rock, AR, August 30, 2011.
- 175. Seoul National University of Science & Technology. Presented "Warm Mix Asphalt in the United States." Seoul, South Korea, June 14, 2011.
- 176.Korean Society of Road Engineers. Presented "Asphalt Concrete and Fracture." Seoul, South Korea, June 13, 2011.
- 177. Engineering Mechanics Institute 2011, Dallas Little Honorary Symposium. Presented "Innovative Methods of Analyzing Fracture Data from Asphalt Concrete." Boston, MA, June 3, 2011.
- 178. Arkansas Asphalt Pavement Association Annual Meeting. Presented "Pavinars: Webinars for the Pavement Community." Hot Springs, AR, March 30, 2011.
- 179. Paragon Technical Services, Inc. Presented "Pavement Maintenance Products Research." Jackson, MS, March 21, 2011.
- 180. Preservation and Rehabilitation 2011 AEMA/ARRA/ISSA Annual Meeting. Presented "Current & Future Laboratory Research on Pavement Maintenance Products." Tucson, AZ, January 25, 2011.
- 181.11th International Conference on Asphalt Pavements (ISAP). Presented "An Introduction of the Arcan Testing Configuration for Mixed-Mode Cracking in Asphalt Concrete." Nagoya, Japan, August 4, 2010.
- 182.11th International Conference on Asphalt Pavements (ISAP). Presented "Thermal Cracking Simulations of Aged Asphalt Pavements using Viscoelastic Functionally Graded Finite Elements." Nagoya, Japan, August 3, 2010.
- 183. University of Arkansas. Presented "A Brief Look at the Past, plus Five to Ten Years in the Future." Fayetteville, AR, April 20, 2010.
- 184. Airport Pavement Design and Management Summit 2010. Presented "New Research within the Area of Warm Mix Asphalt." Singapore, January 27, 2010.
- 185. Airport Pavement Design and Management Summit 2010. Panel Participant "The Future of Pavement Technology: What Should We Expect in the Next 5-10 Years?" Singapore, January 26, 2010.
- 186. Virginia Tech University. Presented "Dr. Fujian Ni's Research Group at Southeast University." Blacksburg, VA, January 16, 2010.
- 187. Transportation Research Board AFK20 committee meeting. Presented "Asphalt Cement in China: Today and Tomorrow." Washington, D.C., January 11, 2010.
- 188. New Technology Promotion of Road Pavement Engineering Materials Summit. Presented "Warm Mix Asphalt in the United States." Changzhou, Jiangsu, China, December 25, 2009.
- 189. Sejong University. Presented "Fracture Characteristics of Asphalt Concrete." Seoul, South Korea, November 7, 2009.
- 190.11th Korean Society of Road Engineers Conference. Presented "Fracture Characteristics of Asphalt Concrete." Busan, South Korea, November 6, 2009.

- 191.Keynote Presentation at the 11th Korean Society of Road Engineers Conference. Presented "Twenty Years of Highway Construction in China: 1988-2008." Busan, South Korea, November 5, 2009.
- 192.13th International Flexible Pavements Conference. Presented "Prediction of Rutting in China." Surfers Paradise, Australia, October 14, 2009.
- 193. GeoHunan International Conference on Challenges and Recent Advances in Pavement Technologies and Transportation Geotechnics. Presented "China's Warm Mix Asphalt Experience." Changsha, Hunan, China, August 3, 2009.
- 194.7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mode II Cracking in Asphalt Concrete." Rhodes, Greece, May 27, 2009.
- 195.7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mixed-Mode Cracking in Asphalt Concrete." Rhodes, Greece, May 28, 2009.
- 196. Transportation Research Board. Poster presentation "Comparison of Low-Temperature Field Performance and Laboratory Testing Using Ten Test Sections in Midwest." No. 09-3207, Washington, D.C., January 13, 2009.
- 197. Transportation Research Board. Poster presentation "Anisotropic Behavior of Hot Mix Asphalt at Low Temperatures." No. 08-0885, Washington, D.C., January 15, 2008.
- 198.8th International Symposium on Cold Region Development. Presented "Effect of Hot Mix Asphalt Pavement Depth on Fracture Energy." Tampere, Finland, September 25, 2007.
- 199. National Center for Asphalt Technology, Professor Training Course in Asphalt Technology. Presented "Development of a Flattened Indirect Tension Test for Asphalt Concrete." Auburn, AL, June 28, 2007.
- 200. Society for Experimental Mechanics Annual Conference and Exposition. Presented "Development of a Flattened Indirect Tension Test for Asphalt Concrete." Springfield, MA, June 5, 2007.
- 201. Illinois Asphalt Pavement Association 70th Annual Meeting. Presented the idea of a Hot Mix Asphalt Design competition between universities in Illinois and Indiana. Generated idea based on experience in Wisconsin's competition. Springfield, IL, March 13, 2007.
- 202. Transportation Research Board. Poster presentation "Effect of Binder Type, Aggregate, and Mixture Composition on the Fracture Energy of Hot-Mix Asphalt in Cold Climates." No. 07-1280, Washington, D.C., January 23, 2007.
- 203. Transportation Research Board AFK20 and AFK50 committee meetings. Presented the idea of a Doctoral Student Workshop in asphalt materials, a forum where graduate students can meet to discuss their research. The first workshop took place at TRB in January 2008, and was cosponsored by AFK20 and AFK50. Washington, D.C., January 22 (AFK20) and January 24 (AFK50), 2007.

Pavinars (YouTube Channel click here)

- 1. Pavinar Shorts playlist <u>click here</u>
- 2. October 1, 2023: Fatigue or Not Fatigue That is the Question
- 3. June 17, 2023: Tack Coats for Flexible Pavements
- 4. June 10, 2023: Graduate School: Proposal Defense
- 5. May 21, 2023: Quantifying Pavement Preservation in Arkansas
- 6. May 4, 2023: Balanced Mix Design for Asphalt Mixtures
- 7. April 16, 2023: Pavement Preservation
- 8. November 13, 2022: Pervious Pavements
- 9. September 20, 2022: Project Management

- 10. September 4, 2022: Quantifying effects of laboratory curing conditions on workability, compactability, and cohesion gain of Cold In-place Recycling
- 11. July 31, 2022: Exploring the Influence of Pavement Preservation, Maintenance, and Rehabilitation on Arkansas' Highway Network: An Education Case Study
- 12. June 19. 2022: Longitudinal Joints in Asphalt Pavements
- 13. April 9, 2022: Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis
- 14. March 19, 2022: Reclaimed Asphalt Pavement (RAP) 2022 Update
- 15. December 18, 2021: Overview of Warm Mix Asphalt 2021 Update
- 16. December 5, 2021: SAMI (Stress Absorbing Membrane Interface) & other stress relief asphalt layers–2021 Update
- 17. October 17, 2021: Influence of Time After Crushing for Cold In-place Recycling on Compaction and Raveling
- 18. September 26, 2021: Introduction to Hot Mix Asphalt (HMA) Mix Design 2021 Update
- 19. September 6, 2021: Rheological Parameters of Asphalt Binder
- 20. August 22, 2021: Transitioning your Mindset to Graduate School: Bloom's Taxonomy
- 21. June 27, 2021: Comprehensive evaluation of in service pavements
- 22. June 20, 2021: Performing a Literature Review
- 23. May 23, 2021: Evaluation and Compaction of Laboratory-Produced Recycled Asphalt Pavement in Cold In-place Recycling
- 24. May 16, 2021: Writing a Journal Article
- 25. May 9, 2021: Aging of Asphalt Binder
- 26. April 18, 2021: Giving a Presentation
- 27. April 11, 2021: Asphalt emulsion stabilized unbound material (base and subbase)
- 28. April 4, 2021: Writing an Abstract
- 29. March 28, 2021: Innovative pavement techniques and products
- 30. March 21, 2021: Reading a Journal Article
- 31. March 7, 2021: Comparing layer types for the use of PavementME for asphalt emulsion Full Depth Reclamation design
- 32. February 16, 2021: Pavement Management Systems 2021 Update
- 33. January 31, 2021: R-curves characterisation analysis for asphalt concrete
- 34. January 17, 2021: Life Cycle Cost Analysis 2021 Update
- 35. December 27, 2020: Influence of binder grade, gradation, temperature, and loading rate on R-curve of asphalt concrete
- 36. December 13, 2020: What is Mechanistic Empirical? 2020 Update
- 37. November 25, 2020: The Characterisation of Foamed Asphalt Cement Using a Rotational Viscometer
- 38. September 27, 2020: Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation
- 39. August 13, 2020: Hot In-place Recycling (HIR): 2020 Update
- 40. August 2, 2020: Correlating field performance to laboratory dynamic modulus from indirect tension and torsion bar
- 41. July 19, 2020: Stone Matrix Asphalt (SMA): 2020 Update
- 42. July 5, 2020 : Exploring the Effect of Asphalt-Concrete Fabrication and Compaction Location on Six Compaction Metrics
- 43. June 14, 2020: Reducing Sample Size for Cold In-place Recycling Design and Testing
- 44. April 29, 2020: Influence of Aging and Moisture on Laboratory Performance of Asphalt Concrete
- 45. February 19, 2020: The Development of Master Fracture Curves for Asphalt Concrete

- 46. February 5, 2020: Development of a Field Measuring Device for Return to Traffic for Full-Depth Reclamation Pavements
- 47. May 6, 2014: Portland Cement Concrete Overlays
- 48. April 1, 2014: Wide Base Tires, a.k.a. Super Singles
- 49. March 4, 2014: High Levels of Recycled Asphalt Pavement (RAP) in Asphalt Concrete
- 50. February 4, 2014: An Overview of Biobinders
- 51. December 3, 2013: New Developments in Airfield Pavements
- 52. November 5, 2013: Deicers and Concrete Pavements
- 53. October 1, 2013: SAMI (Stress Absorbing Membrane Interface) and Other Stress Relief Asphalt Layers
- 54. September 3, 2013: Use of Recycled Asphalt Shingles from Processing Through Plant Production
- 55. May 7, 2013: Foamed Asphalt and Laboratory Testing (specifically M_R)
- 56. April 2, 2013: Sustainability and Pavements
- 57. March 5, 2013: Pavement Management Systems
- 58. February 5, 2013: Different Methods of Asphalt Pavement Crack Repair
- 59. December 4, 2012: Stone Matrix Asphalt
- 60. November 6, 2012: An Introduction to Roller Compacted Concrete
- 61. October 2, 2012: Stringless Paving: Advantages & Disadvantages
- 62. September 4, 2012: Life Cycle Cost Analysis
- 63. May 1, 2012: Hot In-place Recycling 101
- 64. April 10, 2012: Whitetopping Is it for you?
- 65. March 6, 2012: Introduction to HMA Mix Design
- 66. February 7, 2012: Introduction to PCC Mix Design
- 67. December 6, 2011: What Is Mechanistic-Empirical?
- 68. November 1, 2011: Overview of Warm Mix Asphalt
- 69. October 4, 2011: Basic Portland Cement Concrete Maintenance Principles
- 70. September 2, 2011: Basic Asphalt Concrete Maintenance Principles
- 71. August 2, 2011: Differences between Portland Cement Concrete and Asphalt Concrete

Awards and Recognitions

- 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
- 2018 "Private Sector Applicability" Paper Award TRB Intermodal Freight Transport Committee (AT045) for "Development of a Cost Estimation Framework for Potential Transload Facilities."
- 2016 Outstanding Faculty Award (nomination) University of Arkansas
- 2016 Award of Recognition Association of Asphalt Paving Technologist
- 2012 New Faculty Teaching Commendation University of Arkansas

Synergistic Activities

- Developed and provided on-demand online certificate program with Asphalt Emulsion Manufacturing Association and University of Arkansas Global Campus
 - "Introduction to Asphalt Emulsion" (2017-current)
 - "Applications of Asphalt Emulsion" (2017-current)
 - "Manufacturing of Asphalt Emulsions" (2018-current)
 - "Achieving Quality of Asphalt Emulsion" (2020-current)
 - Go to <u>https://training.uark.edu/</u> and search "asphalt emulsion")

- Developed with three colleagues "LeadershipWWEB" leadership podcast series (<u>https://soundcloud.com/user-561194034</u>)
- Developed and provided "Pavinar" webinar series (YouTube Channel: <u>https://www.youtube.com/channel/UCbo-D_tfDFDzzn9NUPw008g</u>)
- 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, Journal of Transportation Engineering, Part B: Pavements, Road Materials and Pavement Design, Transportation Research Record
- Associate Director of Southern Plains Transportation Center (SPTC, 2023-current)
- Member of Transportation Research Board (TRB) committees: Committee on Pavement Maintenance, AKT30 (2023-current); Committee on Pavement Preservation, AKT20 (2012-2023); Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements, AFK50 (2012-2018); Characteristics of Bituminous Materials, AFK20 (2011-2017)
 - AKT30: Chair of committee "Pavement Maintenance"
 - AKT20: Chair of subcommittee "Integrating the Flexible Pavement Life Cycle" (2022-2023)
 - AKT20: Integrating the Flexible Pavement Lifecycle, Workshop 1009 at Transportation Research Board, January 9, 2022.
 - AFK50: Workshop organizer for: Incorporating Structural Rehabilitation Techniques into Pavement-ME, Workshop 897 at Transportation Research Board, January 12, 2017.
 - AKT20: Research Needs Coordinator (2013-2016)
- Chair of Pavement Preservation and Recycling Alliance (PPRA) Sustainability Committee (2020-current)
 - o Developed and led PPRA Sustainability Committee Workshop, April 13-14, 2020.
- Co-chair of AASHTO TSP-2 Emulsion Task Force Research Subcommittee (2023current)
- Editorial Board Member for Road Materials and Pavement Design (2021-2024)
- Member of Imhoff Award Selection Committee, University of Arkansas Teaching Academy, Fall 2023, Fall 2022.
- Associate Member of TRB Special Committee on Inclusion and Diversity (2018-2022)
- Director-At-Large for the Association of Asphalt Paving Technologists (2017-2018), member of Membership Committee (2015-2017, 2024-current), chair of Newer Members Committee (2012-2016), member of Publications Committee (2013-2014)
- Member of Young Members Committee (now Leadership Development Team) for the Asphalt Emulsion Manufacturing Association (2017-2021), chair (2017-2020)
- Conference committees: 2022 Tran-SET Conference, San Antonio, August 31 September 2, 2023 (scientific committee: Asphalt Materials & Pavements); 2021 Tran-SET Conference, Jonesboro, AR, June 3-4, 2021 (scientific committee: Asphalt Materials & Pavements); 10th International Conference on Road and Airfield Pavement Technology, Hong Kong, China, August 8-10, 2017 (academic committee); International Conference on Transportation Infrastructure and Materials, Qingdao, China, June 9-12, 2017 (technical committee); Transportation Research Congress, Beijing, China, June 6-8, 2016 (scientific committee)
- Mentoring Graduate Students and Postdocs Workshop Series: University of Arkansas (completed fall 2021)
- Mentor: University of Arkansas Peer Mentoring Program (2020-2021)

- SURF review panel: Student Undergraduate Research Fellowship, Arkansas Department of Higher Education (2020)
- Member of University of Arkansas committees: College of Engineering Promotion and Tenure Committee (2023-current); College of Engineering Distance Education Committee (2021-current); College of Engineering Technology Committee (2013current); chair of Civil Engineering Department Unit Committee (2023-current); chair of Civil Engineering Department Sustainability Minor task group (2012-current); University Diversity and Inclusion Champion (2018 – current), University Faculty Athletics Committee (2017 – 2020; chair 2018 – 2020); University Transit, Parking, and Traffic Committee (2011-2014); Civil Engineering Department Transportation Faculty Search Committee (2012, 2013, 2014; chair 2021); Civil Engineering Department Graduate Studies Committee (2011-2014)
- Faculty advisor in Department of Civil Engineering at University of Arkansas for student groups: Chi Epsilon (2015-2017); Transportation Leaders in the 21st Century (TL21, 2015-2016)
- Participated in Annual Major Greeks at University of Arkansas (2013, 2014)
- Attended INEG5253, "Leadership Principles," taught by Dr. John White, Distinguished Professor of Industrial Engineering and Chancellor Emeritus, University of Arkansas, Fall, 2013
- Graduated from ExCEEd, *American Society of Civil Engineers ExCEEd Teaching Workshop*, Fort Myers, FL, July 21-26, 2013
- Chairman at the Airport Pavement Design and Management Summit 2010, Singapore
- Exhibitor at the 2005-08 College of Engineering Open House exhibits on pavements
- Program Facilitator for 2005-08 University of Illinois Leadership Center I-Programs at University of Illinois Urbana-Champaign
- Organizing Committee of the 2007 and 2008 Transportation Highway and Engineering Conference, University of Illinois
- Assistant Conference Director of the 2006 Transportation Highway and Engineering Conference, University of Illinois
- Staff Writer for 2005-06 Technograph, University of Illinois Engineering Magazine

Courses Taught

- Developed and taught *Transportation Infrastructure* (six semesters at University of Arkansas; senior)
- Developed and taught *Sustainability in Civil Engineering* (nine semesters at University of Arkansas; senior/grad)
- Enhanced and taught *Structural Design of Pavement Systems* (four semesters at University of Arkansas; grad/senior)
- Developed and taught *Production and Construction of Pavement* (two semesters at University of Arkansas; grad/senior)
- Developed and taught *Pavement Maintenance and Rehabilitation* (one semester at University of Arkansas; grad/senior)
- Developed and taught *Sustainability in Construction Management* (six semesters at University of Arkansas; online graduate)
- Developed and taught *Sustainability in Civil Engineering* (eleven semesters at University of Arkansas; online graduate)
- Enhanced and taught *Transportation Engineering* (eight semesters at University of Arkansas; junior)

- Enhanced and taught *Geometric Design of Roads* (one semester at University of Arkansas; senior)
- Co-developed and co-taught *Think Big Perspectives from Pavement Research* (one semester at University of Arkansas; grad). Collaborators:
 - Dr. Amit Bhasin, University of Texas Austin
 - Dr. Shane Underwood, North Carolina State University
- Developed and taught *Perpetual Pavements Plus* (two semesters at University of Arkansas; grad/senior)
- Developed and taught *Advanced Materials Characterization* (two semesters at University of Arkansas; grad/senior)
- Enhanced and taught *Transportation Pavement and Materials* (one semester at University of Arkansas; senior/grad)
- Enhanced and taught laboratory section of *Asphalt Materials I* (two semesters at University of Illinois; senior)
- Taught laboratory section of *Construction Materials* (two semesters at University of Wisconsin; junior)

Graduate Advisors and Postdoctoral Sponsors

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

Thesis Advisor, Postgraduate-Scholar Sponsor, and External Committee Member

- Ph.D. (3) Sadie Casillas (2020, currently at US Army Corps of Engineers); Airam Morales (2019, currently at Technological University of Panama); Shu Yang (2016, currently at Hunan University)
- M.S. (19) Amarjeet Tiwari (2024 current); Jackson Hedden (2023 current); Toluwanimi Oluwadara Ogundipe (2023 – current); Mohammad Tahir Ansari (2022 – current); Anik Roy (2022 – current); Tanner Turben (2022 – current); Jonathan Stonestreet (2022 – current); David Murphy (2022); Pedro Diaz Romero (2022); 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)
- Undergraduate Honors Thesis (10) Tanner Turben (2022); Gus Williams (2021); David Olatunji (2020); Bette Poblete (2019); Aleinys Villarreal Rojas (2019); Farida Mahmud (2017); Rebekah Porter (2016); Karangwa Ken Rutabana (2015); Sadie Smith (2013); Alex Jackson (2012)
- FEP Honors Program (3 pairs) Eli LaSalle/Emma Presley (2016); Zachary Lemmon/Reihle Saldana (2015); Abby Terlouw/Becca McCann (2014)
- External Committee Member (3) Nemati, Rasool (University of New Hampshire, Ph.D. Civil Engineering, 2019); Lopez Montero, Teresa (UPC Barcelona, Ph.D. Engineering); Chowdhury, Nazmul (Arkansas State University, M.S. Engineering, 2015)

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), Southern Plains Transportation Center (SPTC), United States Army Corps of Engineers Engineer Research and Development Center (ERDC), University of Arkansas, Women's Giving Circle