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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	08/2022 – present
Associate Professor, University of Arkansas, Fayetteville, AR	08/2016 – 08/2022
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

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. Cuyx, H., Braham, A., Hernando, D., Blom, J. (2026). Comparative analysis of bitumen emulsion standards in Europe and the United States, doi: 10.2139/SSRN.6463918.
2. 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.
3. 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.
4. Braham, A., Casillas, S. (2021). Fundamentals of Sustainability in Civil Engineering, *CRC Press*, Second Edition, ISBN: 978-0367420253.
5. 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.
6. Braham, A. (2020). Introduction to Asphalt Emulsions (Certificate 1). Version 2.0 in *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
7. Braham, A. (2020). Achieving Quality of Asphalt Emulsion (Certificate 4). In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
8. Braham, A. (2020). A Review of Asphalt Emulsion Papers in the Journal of the Association of Asphalt Paving Technologists, 1929-1970. University of Arkansas, Fayetteville, AR, USA.

9. 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.
10. Braham, A. (2018). Manufacturing of Asphalt Emulsions (Certificate 3). In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
11. Braham, A. (2017). Fundamentals of Sustainability in Civil Engineering, *CRC Press*, First Edition, ISBN: 978-1498775120, doi: 10.1201/9781315152073.
12. Braham, A. (2017). Applications of Asphalt Emulsions (Certificate 2). In *Pavement Maintenance and Rehabilitation Professional Development Courses*, University of Arkansas, Fayetteville, AR, USA.
13. 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.
14. State of the Art and Practice in Fatigue Cracking Evaluation of Asphalt Concrete Pavements, *Association of Asphalt Paving Technologists*, Version 1.0. Editors: A. Braham and S. Underwood, October 2016.

Peer-Reviewed Publications

1. Tiwari, A., Ansari, T., Braham, A., Uddin, S. Laboratory versus plant production: impact of specimen preparation techniques on the performance of balanced mix design asphalt mixtures in Arkansas using the Arkansas choice of performance test, *International Journal of Pavement Engineering*, 27:1, 2674965, 2026, doi: 10.1080/10298436.2026.2674965.
2. Ogundipe, T., Vaddy, C., Casillas, S., Braham, A. A stress–strain-based analytical framework for evaluating full-depth reclamation mixtures, *Road Materials and Pavement Design*, published online Jul. 2026, doi: 10.1080/14680629.2026.2696980.
3. Tiwari, A., Hedden, J., Ogundipe, T., Simpson, A., Smith, T., Ramallo Jordan, S., Waters, C., Braham, A. Comparison of three flexible pavement structural design methodologies for four Arkansas roadways, *International Journal of Pavement Engineering*, 27:1, 2696964, 2026, doi: 10.1080/10298436.2026.2696964.
4. Roy, A., Hedden, J., Cox, B., Braham, A. Assessing Rheological Performance of Innovative Sealant Materials Using Traditional Superpave Binder Equipment, *Journal of Materials in Civil Engineering*, 38(8), 2026, doi: 10.1061/JMCEE7.MTENG-22513.
5. Fazeli, R., Turben, T., Elseifi, M., Braham, A. Sustainable asphalt with bio-binders: a review on materials, processing methods, performance, and practical applications, *Road Materials and Pavement Design*, published online Jan. 2026, doi: 10.1080/14680629.2025.2609675.
6. Ogundipe, T., Braham, A., Tingle, J. Assessing the Effect of Material Properties on Full-Depth Reclamation Mixtures via Compressive Strength Characterization, *Transportation Research Record*, Vol 2680(6), June 2026, pp. 338-357, doi: 10.1177/03611981251384956.
7. Turben, T., Ferdous, T., Braham, A., Zhang, W. Impact of Equipment Type on Measured Particle Size of Civil Engineering Materials*, International Journal of Pavement Research and Technology*, Dec 2025, doi: 10.1007/s42947-025-00682-6.
8. Roy, A., Chen, J., Braham, A., Casillas, S. Characterising asphalt emulsion: a study of thermal and chemical properties via Thermogravimetric Analysis (TGA) and Fourier Transform Infrared (FTIR) spectroscopy, *International Journal of Pavement Engineering*, 2025, 26:1, 2538778, doi: 10.1080/10298436.2025.2538778.

9. 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.
10. 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. *International Journal of Pavement Engineering*, 26(1), 2025, doi: 10.1080/10298436.2025.2489044.
11. 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*, 26:06, 2025, doi: 10.1080/14680629.2024.2409867.
12. Yang, S., Morales Vega, A., Braham, A. Development of Macrocracking Master Curves of Asphalt Mixtures, Journal of Transportation Engineering, Part B: Pavements, 150(2), 2024, doi: 10.1061/JPEODX.PVENG-1435.
13. 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
14. 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, doi.org/10.1061/JMCEE7.MTENG-15772.
15. 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, doi: 10.1520/JTE20220272
16. Diaz-Romero, P., Braham, A. Refining particle size specification for asphalt emulsion, *Construction and Building Materials*, Vol. 350, 2022, doi: 10.1016/j.conbuildmat.2022.128812
17. 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.
18. 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.
19. Casillas, S., Braham, A. Quantifying Pavement Preservation in Arkansas. *Journal of Transportation Engineering, Part B: Pavements*, 147(4), 2021, doi: 10.1061/JPEODX.0000297.
20. 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.
21. 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, doi: 10.1080/14680629.2020.1753101.
22. 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.
23. Liu, T., Yang, S., Braham, A., Huang, R. An alternative of crack length extension in R-curve analysis of asphalt concrete, *Construction and Building Materials*, Vol. 265, 2020, doi: 10.1016/j.conbuildmat.2020.120741.

24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. Smith, S., Braham, A., Hernandez, S., Kent, J. Development of a cost estimation framework for potential transload facilities, *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2672 (9), December 2018, pp. 24-34, doi: 10.1177/0361198118774690.
31. 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, doi: 10.1061/JPEODX.0000054.
32. Smith, S, Braham, A. Comparing layer types for the use of PavementME for asphalt emulsion Full Depth Reclamation design, *Construction and Building Materials*, Vol. 158, 2018, pp. 481–489, doi: 10.1016/j.conbuildmat.2017.10.054.
33. Braham, A., Aschenbrener, T., Hossain, Z. Forensic Investigation of Ten Asphalt Interstate Pavements with Varying Performance in Arkansas, *Journal of Transportation Engineering, Part B: Pavements*, 144(2), 2018, doi: 10.1061/JPEODX.0000051.
34. Yang, S., Braham, A. R-Curves Characterisation Analysis for Asphalt Concrete, *International Journal of Pavement Engineering*, 19(2), 2018, pp. 99-108, doi: 10.1080/10298436.2016.1172467.
35. Wang, W., Zhang, A., Wang, K., Braham, A., Qiu, S. Pavement Crack Width Measurement Based on Laplace's Equation for Continuity and Unambiguity, *Computer-Aided Civil and Infrastructure Engineering*, Vol. 33, 2018, pp. 110-123, doi: 10.1111/mice.12319.
36. Hossain, Z., Chowdhury, N., Braham, A. Forensic Evaluation of Premature Pavement Failures in Arkansas, *Journal of Performance of Constructed Facilities*, 32(3), 2018, doi.org/10.1061/(ASCE)CF.1943-5509.0001141.
37. Messadi, T., Newman, W., Braham, A., Nutter, D. Immersive Learning for Sustainable Building Design and Construction Practices, *Journal of Civil Engineering and Architecture*, Vol. 11, 2017, pp. 841-852, doi: 10.17265/1934-7359/2017.09.003.
38. Yang, S., Braham, A. Influence of binder grade, gradation, temperature, and loading rate on R-curve of asphalt concrete, *Construction and Building Materials*, Vol. 154, November 2017, pp. 780-790, doi: 10.1016/j.conbuildmat.2017.08.019.

39. Smith, S., Henrichs, C., Braham, A. Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation, *Journal of Testing and Evaluation*, 45(2), March 2017, pp. 484-496, doi: 10.1520/JTE20150229.
40. 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, doi: 10.1080/14680629.2016.1267438.
41. Ryan, J., Braham, A. The Characterization of Foamed Asphalt Cement Using a Rotational Viscometer, *International Journal of Pavement Engineering*, 18(8), 2017, pp. 744-752, doi: 10.1080/10298436.2015.1122191.
42. 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, doi: 10.1061/(ASCE)MT.1943-5533.0001682.
43. Jackson, A., Braham, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, *Journal of Testing and Evaluation*, 44(4), July 2016, pp. 1698-1705, doi: 10.1520/JTE20140159.
44. 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, doi: 10.1016/j.conbuildmat.2016.04.063.
45. 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, doi: 10.3141/2573-07.
46. 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*, 44(1), January 2016, pp. 555-564, doi: 10.1520/JTE20130288.
47. Braham, A., Howard, I., Barham, J., and Cox, B. Characterising emulsion effects on aged asphalt concrete surfaces using Bending Beam Rheometer mixture beams, *International Journal of Pavement Engineering*, 16(7), 2015, pp. 620-631, doi: 10.1080/10298436.2014.943214.
48. Braham, A., Steger, R., Lynn, T., and Pyle, R. Characterizing Compactability of High RAP and Warm Mix Asphalt Mixtures in the Superpave Gyratory Compactor, *Journal of Testing and Evaluation*, 43(3), May 2015, pp. 535-543, doi: 10.1520/JTE20130319.
49. 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, doi: 10.28945/2071.
50. Gao, L., Ni, F., Braham, A., Luo, H. Mixed-Mode cracking behavior of cold recycled mixes with emulsion using Arcan configuration, *Construction and Building Materials*, Vol. 55, March 2014, pp. 415-422, doi: 10.1016/j.conbuildmat.2013.12.079.
51. Ni, F., Yang, S., Zhu, Y., and Braham, A. Capturing mixed-mode cracking of asphalt concrete using the Arcan test, *International Journal of Pavement Engineering*, 15(1), January 2014, pp. 43-50, doi: 10.1080/10298436.2013.790969.
52. 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, doi: 10.1061/(ASCE)MT.1943-5533.0000724.
53. Braham, A., Howard, I., and Barham, J. Exploration of a Performance Test for Emulsion Treated Asphalt Surfaces, J*ournal of Testing and Evaluation*, 41(2), March 2013, doi: 10.1520/JTE20120076.

54. Braham, A., Zofka, A., Li, X., Ni, F. Exploring the Reduction of Laboratory Testing for the Cohesive Zone Model for Asphalt Concrete. *International Journal of Pavement Engineering*, 13(4), August 2012, pp. 350-359, doi: 10.1080/10298436.2011.595792.
55. Dave, E.V., Braham, A.F., Buttlar, W.G., Paulino, G.H. Development of a Flattened Indirect Tension Test for Asphalt Concrete. *Journal of Testing and Evaluation*, 39(3), 2011, doi: 10.1520/JTE103084.
56. 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, doi: 10.1080/14680629.2010.9690314.
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58. 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, doi: 10.3141/2127-13.
59. 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, doi: 10.1080/14680629.2008.9690176.
60. Wagoner, M.P., Braham, A.F. Anisotropic Behavior of Hot Mix Asphalt At Low Temperatures. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2057, Transportation Research Board of the National Academies, Washington, D.C., 2008, pp. 83-88, doi: 10.3141/2057-10.
61. Braham, A.F., Buttlar, W.G., Marasteanu, M.O. Effect of Binder Type, Aggregate, and Mixture Composition on the Fracture Energy of Hot-Mix Asphalt in Cold Climates. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2001, Transportation Research Board of the National Academies, Washington, D.C., 2007, pp. 102-109, doi: 10.3141/2001-12.

Other Publications

1. Casillas, S., Braham, A. Sensitivity to Laboratory Specimen Fabrication Procedures for Asphalt Emulsion Cold In-Place Recycling Mixtures, ASCE Airfield and Highway Pavements Conference 2025, Glendale, Arizona, June 8–11, 2025, pp. 100-113, doi: 10.1061/9780784486221.010.
2. Braham, A. A Brief Synthesis of Flexible Full Depth Reclamation Performance Testing, Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements, MAIREPAV 2024, Guimarães, Portugal, July 2024, pp. 553-564, doi: 10.1007/978-3-031-63584-7_53.
3. Casillas, S., Turben, T., Braham, A. Validation of the Stiffness Raveling Mechanism Test for Cold In-Place Recycling, Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements, MAIREPAV 2024, Guimarães, Portugal, July 2024, pp. 529-540, doi: 10.1007/978-3-031-63584-7_51.
4. Murphy, D., Braham, A., Hossain, Z. Effect of varying amounts of sandstone on the performance of asphalt mixtures in Arkansas, 14th International Conference on Asphalt Pavement, ISAP 2024, Montreal, Canada, June 2024, pp. 85-89, doi: 10.1007/978-3-031-67252-1_14.
5. Braham, A. Clarification Provided for Spring 2023 Article on LCAs, PCRs, EPDs, Pavement Preservation Journal, Summer 2023, p. 31.

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7. Braham, A. Essential Specifications for Pavement Preservation, Maintenance, and Rehabilitation, TR News 339, May-June 2022, pp. 25-26.
8. Braham, A. Pavement Maintenance and Rehabilitation: Teaching the Next Generation, TR News 339, May-June 2022, pp. 10-11.
9. Braham, A., Cheng, D., Smith, K., Myers, L., Peshkin, D. Pavement Preservation, Maintenance, and Rehabilitation, TR News 339, May-June 2022, pp. 3-5.
10. O'Brien, T., Braham, A. Diversity and Inclusion in Higher Education: Two Case Examples, TR News 333, May-June 2021, pp. 22-25.
11. Braham, A. How to Excite and Educate College Students in Preservation, Pavement Preservation Journal, Winter 2020, pp. 37-39.
12. 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 Pavement. Roadway, and Bridge Life Cycle Assessment 2020*, LCA 2020, Sacramento, CA, 3-6 June 2020.
13. Braham, A. Interview: Transportation Infrastructure Course Focuses on Preservation, Civil Engineering, American Society of Civil Engineering, November 2019, pp. 20-21.
14. Braham, A., Kadrmas, A., Ishee, M. Developing an Online, On-Demand Certificate Program for Asphalt Emulsions, *18th AAPA International Flexible Pavement Conference and Exhibition*, Australian Asphalt Pavement Association, Sydney, Australia, August 18-21, 2019.
15. Hill, R., Braham, A. Investigating the raveling test for full-depth reclamation, Front. Struct. Civ. Eng. 2018, 12(2): 222–226, doi: 10.1007/s11709-017-0423-9.
16. 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.
17. 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.
18. Braham, A. Program Draws Students to Preservation, *Pavement Preservation Journal*, Summer 2016, pp. 40-41.
19. 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.
20. 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.
21. Braham, A., Bennett, A., McClinton, J. Using LinkedIn in the Classroom, *ASEE Midwest Section 2013 Annual Conference*, Salina, KS, September 18-20, 2013.
22. 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.
23. 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.

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25. 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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33. Braham, A.F., Peterson, C.V., Buttlar, W.G. Mixed-Mode Cracking in Asphalt Concrete. *Advanced Testing and Characterization of Bituminous Materials*, Rhodes, Greece, Eds. Loizos, Patrl, Scarpas, and Al-Qadi, CRC Press Taylor and Francis Group, New York, ISBN: 978-0-415-55854-9, Vol. 2, 2009, pp.785-794.
34. Braham, A.F., Dave, E.V., Buttlar, W.G., Paulino, G.H. Analysis of Creep Properties using a Flattened Indirect Tension Test for Asphalt Concrete. *Proceedings of the Eighth International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures*, CRC Press Taylor and Francis Group, London, ISBN: 978-0-415-48508-1, 2008, pp 787-792.
35. Dave, E.V., Braham, A.F., Buttlar, W.G., Paulino, G.H., Zofka, A. Integration of Laboratory Testing, Field Performance Data, and Numerical Simulations for the Study of Low-Temperature Cracking. *Proceedings of the 6th RILEM International Conference on Cracking in Pavements*, Chicago, USA, Eds. Al-Qadi, Scarpas, and Loizos, CRC Press Taylor and Francis Group, New York, ISBN: 978-0-415-4757-54, 2008, pp.369-378.
36. Braham, A.F., Wagoner, M.P., Buttlar, W.G. Effect of Hot Mix Asphalt Pavement Depth on Fracture Energy. *Proceedings of the 8th International Symposium on Cold Region Development*, Tampere, Finland, September 25-27, 2007.
37. Dave, E.V., Braham, A.F., Buttlar, W.G., Paulino, G.H. Development of a Flattened Indirect Tension Test for Asphalt Concrete. *Proceedings of the SEM Annual Conference and Exposition on Experimental and Applied Mechanics*, Springfield, MA, Vol. 2, 2007, pp. 1088-1097.

38. Braham, A. Safely Cycling on Campus. *Technograph*, Illini Media, Vol. 122, Fall, 2006, pp. 17-18.
39. Braham, A. How Do Traffic Lights Know You Are There? *Technograph*, Illini Media, Vol. 121, Summer, 2006, p. 10.
40. Braham, A. Building Towards a Greener Campus. *Technograph*, Illini Media, Vol. 121, Spring, 2006, pp. 16-17.
41. Braham, A. Illinois Center for Transportation: A New Beginning. *Technograph*, Illini Media, Vol. 121, Winter, 2005, pp. 12-15.
42. Braham, A. State of the Art. *Technograph*, Illini Media, Vol. 121, Fall, 2005, pp. 5-6.
43. Snyder, T., Braham, A., Bahia, H., Tikalsky, P. The Use of Blended Recycled Foundry Sand in Hot Mix Asphalt. *American Foundrymen's Society Transactions*, Vol. 111, 2003, pp. 473-488.
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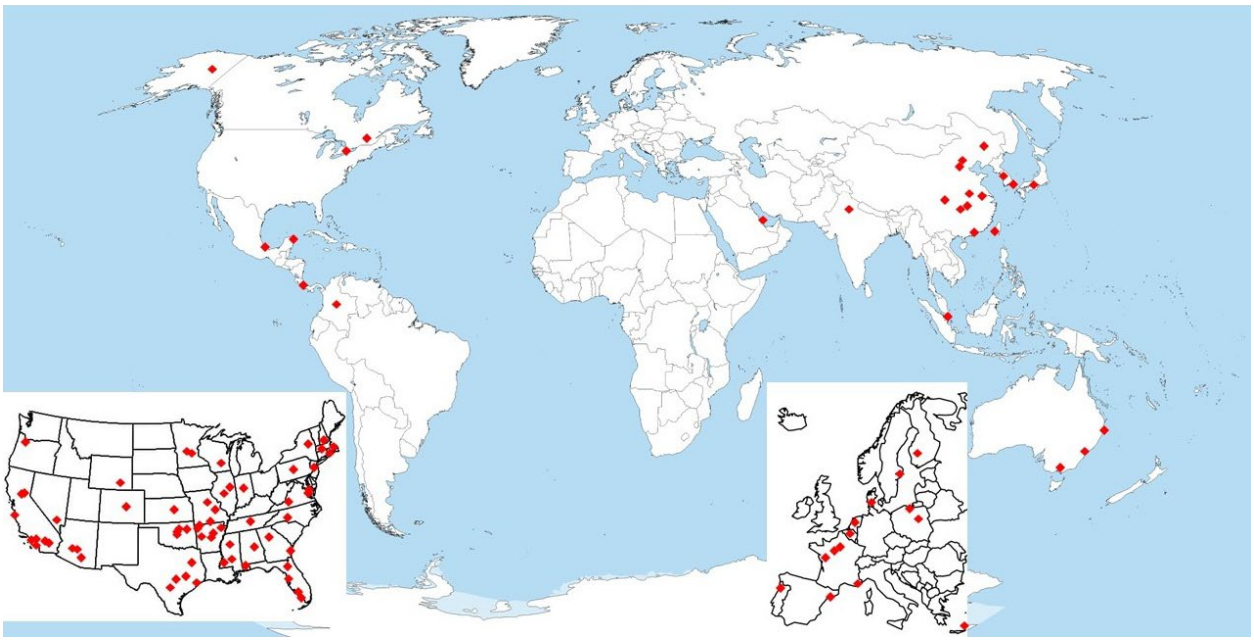
Final Reports

1. Elseifi, M., Braham, A., Jamil, M., Fazeli, R. Development of Sustainable Asphalt Emulsion for Chip Seal Applications, Southern Plains Transportation Center (SPTC), United States Department of Transportation, CY2-LSU-UARK-03, January 2026.
2. Ansari, M.T., Tiwari, A., Braham, A., Hall, K. Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability, Final report for *Arkansas Department of Transportation*, TRC 2201, June 2025.
3. Thompson, S., Schussler, J., Delatte, N., Braham, A. Nature-Based Solutions (NBS) for Climate Resilient Culverts, Southern Plains Transportation Center (SPTC), United States Department of Transportation, CY1-OSU-UARK-01, January 2025.
4. Braham, A., Coffman, R., Barry, M., Hedden, J., Loshelder, J., Ogundipe, T., Roy, A. Pavement Enhancement and Structure Evaluation, Final report for *U.S. Army Engineer Research and Development Center, Geotechnical and Structures Laboratory*, ERDC RIDE Phase I, October 2024.
5. Braham, A., Cheng, D., Blankenship, P. Guidance for the Construction of Sand Seals and Ultra-thin Bonded Wearing Courses, *National Cooperative Highway Research Program*, NCHRP 14-48, April 2024.
6. Hossain, Z., Braham, A. Effect of Aggregate-Binder Compatibility on Performance of Asphalt Mixtures in Arkansas, Final report for *Arkansas Department of Transportation*, TRC 2102, August 2023.
7. Hall, K., Castillo-Camarena, E., Braham, A., Parnell, N., Richey, A. Performance-Based Asphalt Mixture Design (PBD) for Arkansas, Final report for *Arkansas Department of Transportation*, TRC 1802, December 2022.
8. Braham, A., Hicks, R.G., Cheng, D. Proposed Guidance for the Construction of Slurry Seals, Scrub Seals, and Tack Coats, *National Cooperative Highway Research Program*, NCHRP 14-44, March 2022.
9. Casillas, S., Braham, A. Quantifying Effects of Laboratory Curing Conditions on Workability, Compactability, and Cohesion Gain of Cold In-Place Recycling, *Dwight David Eisenhower Transportation, Federal Highway Administration*, FHWA grant number 693JJ31845006, May 2020.
10. 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.

11. Hossain, Z., Braham, A., Baumgardner, G. Performance of Asphalts Modified with Polyphosphoric Acid, Final report for *Arkansas Department of Transportation*, TRC 1501, November 2017.
12. Braham, A., Hernandez, S., Kent, J., Asborno, M., Smith, S. Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment, Final report for *Arkansas Department of Transportation*, TRC 1608, September 2017.
13. Braham, A., Hossain, Z., Yang, S., Chowdhury, N. Evaluating Performance of Asphalt Pavement Based on Data Collected During IRP, Final report for *Arkansas State Highway and Transportation Department*, TRC 1404, June 2015.
14. Braham, A., Henrichs, C. Examination of Full-Depth Reclamation Techniques for Shale Areas Across Arkansas, Final report for *Arkansas State Highway and Transportation Department*, TRC 1405, June 2015.
15. Williams, S., Braham, A. Foamed Warm Mix Asphalt Design Issues, Final report for *Arkansas Department of Transportation*, TRC 1304, January 2015.
16. Braham, A., Caro, S. Application of Stochastically Generated Material Properties in Numerical Simulations of Advanced Performance Testing. Final report for *National Science Foundation, OISE - Catalyzing New Intl Collab*, proposal number 1321235, September 2014.
17. 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).
18. Braham, A. Visit to University of Florida. Final report for *2013 SEC Travel Grant Program*, March 2013.
19. 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.
20. 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.
21. Braham, A. Development of the Arcan Test Configuration to Test Mixed-Mode Characteristics of Asphalt Concrete. *Postdoctoral Research Dissertation*, Southeast University, Nanjing, China, 2010.
22. 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.
23. 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.
24. 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.
25. Braham, A. The Use of Blended Recycled Foundry Sand in Hot Mix Asphalt. *M.S. Thesis*, University of Wisconsin, Madison, WI, 2002.

Presentation Locations



Invited Talks

1. Invited presentation for the New York Pavement Preservation Association. Presented "How Maintenance and Rehabilitation can Contribute to Lower Cost Pavement Networks," Saratoga Springs, NY, November 10, 2025.
2. Keynote presentation at the 38th Rhode Island Transportation Forum. Presented "How Pavement Maintenance and Rehabilitation Can Contribute to Sustainable Infrastructure and Systems," Kingston, RI, October 24, 2025.
3. Invited presentation for the International Conference on Bitumen Emulsion. Presented "The Critical Role of Emulsion Particle Size in Enhancing Bitumen Emulsion Performance," New Delhi, India, June 18, 2025.
4. Invited presentation for the Pennsylvania Association of Asphalt Material Applicators. Presented "Putting Sustainability into Practice," Boalsburg, PA, October 26, 2023.
5. 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.
6. Invited presentation for Nouryon Asphalt Applications School. Presented "Cold Recycling of Asphalt," Bridgewater, NJ, December 14, 2022.
7. Invited presentation for Liquid Asphalt Distributors Association of New York. Presented "Surface Treatments for Flexible Pavement." Online, November 16, 2020.
8. Invited presentation for Michigan State University CEE Seminar. Presented "Perpetual Pavements Plus (PP+) – Improving Traditional Perpetual Pavements." Online, October 16, 2020.
9. Invited presentation at ARRA Semi-Annual Meeting. Presented "RoadResource.org: Let's Scratch Below the Surface." Monterey, CA, October 22, 2019.
10. 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).

11. 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 (https://www.youtube.com/watch?v=QIWRGuGp3J4).
12. 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.
13. Invited presentation at Transportation Research Congress Young Investigator Forum. Presented “Transportation Materials and Sustainability.” Beijing, China, June 7, 2016.
14. 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.
15. 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.
16. Invited presentation at the Low-Carbon, Green Asphalt Pavement Technology Conference. Presented "Warm Mix Asphalt in the United States." Nanjing, China, October 21, 2010.
17. Invited presentation at Chongqing Jiaotong University. Presented "Innovative Methods of Researching Cracking of Asphalt Concrete." Chongqing, China, May 20, 2010.
18. Invited presentation at University of Wisconsin - Madison. Presented "Capturing Mixed-Mode Cracking in Asphalt Concrete Using the Arcan Specimen." Madison, WI, January 19, 2010.
19. Invited presentation at Southeast University. Presented "Cracking in Asphalt Concrete Pavements." Nanjing, China, March 19, 2008.

Presentations

1. Braham, A., Vaddy, C. A brief perspective on top-down cracking in Pavement ME, Arkansas Department of Transportation, Little Rock, AR, June 10, 2026.
2. Braham, A., CEREC Phase II: Building the Future Asphalt Engineers, Arkansas Asphalt Pavement Association Annual Convention, Hot Springs, AR, April 29, 2026.
3. Braham, A. From Pavement Preservation to Bio-Emulsions: Connected by Asphalt Emulsions, University of Antwerp, Antwerp, Belgium, April 16, 2026.
4. Braham, A. Pavement Preservation, Pavement Maintenance, Asphalt Emulsions and Bio-Emulsions, Denmark Technical University, Copenhagen, Denmark, April 10, 2026.
5. Vargas, A., Braham, A., Williamson, M., Payne, A., Shuler, S. Development of a Field Test to Determine Chip Seal Aggregate Embedment, NCHRP 10-124 update, AASHTO Preservation Management Emulsion Task Force (ETF) Meeting, Indianapolis, IN, March 31, 2026.
6. Braham, A. Comparison of Lab-Produced Asphalt Emulsions by Manufacturing Equipment Type, Arkansas State University, Jonesboro, AR, March 11, 2026.
7. Braham, A. Sustainability in Civil Engineering (CVEG), Society of Sustainable Engineers, University of Arkansas, Fayetteville, AR, February 24, 2026.
8. Braham, A. TREAT Mobile Lab: The First Few Years, 2026 AEMA-ARRA-ISSA Annual Meeting, Austin, TX, February 20, 2026. Click here to watch on YouTube
9. Braham, A. Pavement Preservation Overview, 2026 Slurry Systems Workshop, Las Vegas, NV, January 20, 2026.
10. Braham, A., Linking Lab Compaction to the Field, Quality Asphalt Conference, Arkansas Asphalt Pavement Association, Little Rock, AR, January 9, 2026.

11. Braham, A., Hall, K. TRC2201 Update: Balanced Mix Design in Arkansas, Quality Asphalt Conference, Arkansas Asphalt Pavement Association, Little Rock, AR, January 9, 2026.
12. Braham, A. Standard Guide for Determining the Particle Size of Emulsified Asphalt, ASTM Committee Week: D04.41 and D04.42, Atlanta, GA, December 11, 2025.
13. Braham, A. Research Group Vision, given to the Asphalt Emulsion Manufacturing Association's Leadership Education for Asphalt Preservation (LEAP) Program, University of Arkansas – Fayetteville, Fayetteville, AR, November 5, 2025.
14. Braham, A. Pavement Preservation and Pavement Maintenance with Asphalt Emulsions, University of California – Davis, Davis, CA, July 23, 2025.
15. Braham, A. Asphalt Emulsions in Pavement Preservation and Pavement Maintenance, Indian Institute of Technology Delhi, New Delhi, India, June 19, 2025.
16. Braham, A. Advancements in Trackless Tack Coat Technology for Improved Pavement Bonding, International Conference on Bitumen Emulsion, New Delhi, India, June 18, 2025.
17. Braham, A. Standard Method of Test for Determining the Particle Size of Emulsified Asphalt, Emulsion Task Force, Indianapolis, IN, June 5, 2025.
18. Braham, A. Pavement Preservation, Pavement Maintenance, and Asphalt Emulsions: How are they Connected?, University of New Hampshire, May 23, 2025.
19. Braham, A. Introducing the Master of Science in Pavement Technology (MSPT) at the University of Arkansas. Arkansas Asphalt Pavement Association, Branson, MO, May 1, 2025.
20. Braham, A. Taking Care of Our Roads, ECAP Dinner, Southern Plains Transportation Center, April 1, 2025.
21. Braham, A. Comparison of Lab-Produced Asphalt Emulsions by Manufacturing Equipment Type, 2025 AEMA-ARRA-ISSA Annual Meeting, Rancho Mirage, CA., March 6, 2025.
22. Braham, A. Introducing the TREAT Mobile Lab, 2025 AEMA-ARRA-ISSA Annual Meeting, Rancho Mirage, CA., March 6, 2025.
23. Blaida, A., Jenkins, N., Baker, A., Braham, A., Brewster, S., Rathbun, J. The Green Path: Sustainable Practices in Asphalt Emulsion Manufacturing, Recycling and Application: ISSA, AEMA, and ARRA, 2025 AEMA-ARRA-ISSA Annual Meeting, Rancho Mirage, CA., March 6, 2025.
24. Braham, A. TREAT: Teaching and Researching Emulsified Asphalt Treatments, Western Regional Association for Pavement Preservation, Ontario, CA, February 6, 2025.
25. Braham, A. Pavement Preservation: EPD/LCA Update, Western Regional Association for Pavement Preservation, Ontario, CA, February 6, 2025.
26. Braham, A. Pavement Preservation Overview, 2025 Slurry Systems Workshop, Las Vegas, NV, January 21, 2025.
27. Braham, A., Kiihnl, L., Diaz-Romero, P., Turben, T. Refining Particle Size Specifications for Asphalt Emulsions, 8th International Symposium on Asphalt Emulsion Technology, ISAET '24, Washington, DC., November 5, 2024.
28. Braham, A. TREAT: Teaching and Researching Emulsified Asphalt Treatments, 8th International Symposium on Asphalt Emulsion Technology, ISAET '24, Washington, DC., November 4, 2024.
29. Braham, A., Hicks. R.G., Cheng, D.X., Blankenship, D. Guidance for the Construction of Preservation Treatments, Presentation to AASHTO Committee on Maintenance for Products of NCHRP Projects 14-44 and 14-48, Mobile, AL, August 14, 2024.

30. Braham, A. Flexible Pavement Maintenance in the United States: Lessons Learned, Generalna Dyrekcja Dróg Krajowych i Autostrad (GDDKiA), Warsaw, Poland, July 30, 2024.
31. Braham, A. Flexible Pavement Maintenance and Rehabilitation in the United States, Gdańsk University of Technology, Gdańsk, Poland, July 29, 2024.
32. Braham, A. A Brief Synthesis of Flexible Full Depth Reclamation Performance Testing, 10th International Conference on Maintenance and Rehabilitation of Pavements, Guimarães, Portugal, July 25, 2024.
33. Braham, A. Validation of the Stiffness Raveling Mechanism Test for Cold In-Place Recycling, 10th International Conference on Maintenance and Rehabilitation of Pavements, Guimarães, Portugal, July 25, 2024.
34. Braham, A., Murphy, D., Hossain, Z. Effect of varying amounts of sandstone on the performance of asphalt mixtures in Arkansas, International Conference on Asphalt Pavement, ISAP 2024, Montreal, Canada, June 5, 2024.
35. Braham, A., Asphalt Emulsions in Flexible Pavement Preservation: Part 2, Southern Plains Transportation Center Workshop Series, STPC Webinar, April 17, 2024. Click here to watch on YouTube.
36. Braham, A., Asphalt Emulsions in Flexible Pavement Preservation: Part 1, Southern Plains Transportation Center Workshop Series, STPC Webinar, April 10, 2024. Click here to watch on YouTube.
37. Braham, A. Pavement Preservation 101 Training, Southeast Pavement Preservation Partnership, Hot Springs, AR, March 19, 2024.
38. Braham, A. Pavement Preservation: Just one part of Civil Engineering (CVEG), ECAP Dinner, Southern Plains Transportation Center, February 26, 2024.
39. Braham, A. Sustainability and Education Update, 2024 AEMA-ARRA-ISSA Annual Meeting, Palm Harbor, FL, February 21, 2024.
40. Braham, A. Pavement Preservation Overview, 2024 Slurry Systems Workshop, Las Vegas, NV, January 16, 2024.
41. Braham, A. Environmental Product Declarations for Flexible Pavement Treatments, 103rd Transportation Research Board Annual Meeting, Washington, DC, January 8, 2024.
42. Braham, A., Hall, K. TRC2201 Update (Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability), Quality Asphalt Conference, Arkansas Asphalt Pavement Association, Little Rock, AR, January 4, 2024.
43. Braham, A. Advancing Environmental Product Declarations (EPDs) for Asphalt Emulsions, FHWA and PPRA Webinar, November 1, 2023.
44. Braham, A. Balanced Mix Design: Comparing Texas, Arkansas, and Oklahoma, Oklahoma Transportation Research Day, Oklahoma City, OK, October 17, 2023. Click here to watch on YouTube.
45. Braham, A. Environmental Product Declarations: HMA Treatments (a.k.a. Flexible Pavement Treatments), National Pavement Preservation Conference, NPPC23, Indianapolis, IN, September 19, 2023.
46. Braham, A. Pavement Preservation College Curriculum, National Pavement Preservation Conference, NPPC23, Indianapolis, IN, September 19, 2023.
47. 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.

48. 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.
49. Braham, A. Collaborating Beyond Civil Engineering, Theta Tau Engineering Banquet, Fayetteville, AR, April 25, 2023.
50. 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.
51. Braham, A. Asphalt Emulsions and the Environmental Pillar of Sustainability, Oklahoma State University, Stillwater, OK, March 23, 2023.
52. Braham, A. ISSA Classroom Modules, 2023 AEMA-ARRA-ISSA Annual Meeting, Litchfield Park, AZ, March 2, 2023. Click here to watch on YouTube.
53. Braham, A. Student Research & Specifications for the Future, 2023 AEMA-ARRA-ISSA Annual Meeting, Litchfield Park, AZ, March 1, 2023. Click here to watch on YouTube.
54. 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.
55. 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.
56. Braham, A. Pavement Preservation: EPD/LCA Updates, Western Regional Association for Pavement Preservation, Long Beach, CA, February 2, 2023.
57. Braham, A. Pavement Preservation Overview, 2023 Slurry Systems Workshop, Las Vegas, NV, January 17, 2023.
58. 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.
59. Braham, A., Hall, K. Contractor participation in TRC 2201, ARDOT and Arkansas Asphalt Pavement Association virtual session, December 7, 2022.
60. Braham, A. Update on NCHRP 14-44 and 14-48, Emulsion Task Force, Indianapolis, IN, November 30, 2022.
61. 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.
62. Braham, A. Quantifying Pavement Preservation in Arkansas, 2022 Trans-SET Summit on Transportation Materials – Innovation and Durability, virtual session, November 1, 2022. Click here to watch on YouTube.
63. 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.
64. 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.
65. 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.

66. Braham, A. RoadResource.org – Beyond the Basics, 2022 Pavement Recycling Summit, Asphalt Reclaiming and Recycling Association, Niagara Falls, ON, Canada, September 26-29. Click here to watch on YouTube.
67. 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.
68. Braham, A. Safety in graduate school, Graduate Student Training, University of Arkansas – Fayetteville, Fayetteville, AR, August 19, 2022.
69. Braham, A. Use of Sustainability Concepts in the World of Modified Asphalt, Association of Modified Asphalt Producers Webinar (https://youtu.be/6edX1SJDFE4), July 13, 2022.
70. Braham, A. TRC2201: Update to ARDOT Superpave Gyratory Compaction (SGC) Specification to Increase Pavement Durability, 2022 TRC Transportation Engineering Conference & Equipment Expo, Hot Springs, AR, May 26, 2022.
71. 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 Springs, AR, May 26, 2022.
72. Braham, A. Examining the Impact of Maintenance and Rehabilitation Treatment Choice, 2022 TRC Transportation Engineering Conference & Equipment Expo, Hot Springs, AR, May 25, 2022.
73. Braham, A. Sustainability and Asphalt Emulsions, guest seminar, Auburn University, Auburn, AL, May 18, 2022.
74. Braham, A. Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis, Université Gustave Eiffel, Nantes, France, April 26, 2022.
75. Braham, A. A Broad Overview of Asphalt Emulsions (a.k.a. Bituminous Emulsions), guest lecture, University of Antwerp, Antwerp, Belgium, April 22, 2022.
76. Braham, A. A Review of Cold In-place Recycling Research at University of Arkansas – Fayetteville, University of Antwerp, Antwerp, Belgium, April 21, 2022.
77. Braham, A. Asphalt Emulsion Activities at the University of Arkansas – Fayetteville, Campus Scientifique et Technique COLAS, Magny-les-Hameaux, France, April 19, 2022.
78. 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.
79. Braham, A. Hot In-place Recycling (HIR): Overview and Case Studies, World of Asphalt 2022 Show and Conference, Nashville, TN, March 30, 2022.
80. Braham, A. Quantifying the Benefits of Pavement Preservation in the Classroom, Southeast Pavement Preservation Partnership, Jekyll Island, GA, March 29, 2022.
81. Braham, A. Sustainable Aspects of ISSA Core Treatments, 2022 AEMA-ARRA-ISSA Annual Meeting, La Jolla, CA, February 24, 2022.
82. Braham, A. PPRA Sustainability Committee Update, 2022 AEMA-ARRA-ISSA Annual Meeting, La Jolla, CA, February 23, 2022.
83. Moriconi, E., Braham, A. Civil Engineering and Social Media, Don Tyson School of Innovation, Springdale, AR, February 15, 2022.
84. Braham, A. Environmental Life Cycle Assessment of Asphalt Emulsion Treatments, Association of Modified Asphalt Producers 23rd Annual Conference, Houston, TX, February 3, 2022.
85. 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).

86. Braham, A. Sustainability and Environmental Impacts of Emulsions, 2022 Slurry Systems Workshop, Las Vegas, NV, January 20, 2022.
87. Braham, A. Preservation and Maintenance of Flexible Pavement, Transportation Research Board Annual Meeting, Workshop 1009, January 9, 2022.
88. Alford, K., Moriconi, E., Quinn, L., Braham, A. Civil Engineering + Social Media, Fayetteville High School, Fayetteville, AR, December 3, 2021.
89. Alford, K., Moriconi, E., Quinn, L., Braham, A. Civil Engineering + Social Media, virtual presentation to Helena–West Helena Central High School, November 15, 2021.
90. Braham, A. Pavement Preservation: The 30,000 Foot View, American Society of Civil Engineering, Northwest Branch, September 1, 2021.
91. Braham, A. Manufacturing of Asphalt Emulsion, 2021 National Pavement Preservation Conference, online, May 18, 2021 (https://www.youtube.com/watch?v=nSv4obFJor4).
92. Braham, A. The Need for Environmental Product Declarations (LCA, PCR, and EPD) with a Focus on Asphalt Emulsions, PPRA Webinar, March 4, 2021.
93. Braham, A. PPRA Sustainability Efforts Update, 2021 AEMA-ARRA-ISSA Annual Meeting, online, February 18, 2021.
94. 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 (https://www.youtube.com/watch?v=BVFSUqBVBXg).
95. Braham, A. Student's Look at Preservation Performance: Website RoadResource.org, Transportation Research Board Webinar, March 5, 2020.
96. Braham, A. Leveraging the Benefits of Pavement Preservation in Arkansas, National Cheng Kung University, Tainan, Taiwan, February 27, 2020.
97. Braham, A. Sustainability and Pavement Preservation, 2020 AEMA-ARRA-ISSA Annual Meeting, San Antonio, TX, February 17-21, 2020.
98. Braham, A. RoadResource.org in the University Classroom, Western Regional Association for Pavement Preservation, Sacramento, CA, January 29, 2020.
99. 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.
100. Braham, A. Pavement Preservation: The 30,000 ft View, University of Missouri, Columbia, MO, October 25, 2019.
101. Braham, A. Leveraging Pavement Preservation, Australian Road and Research Board, ARRB, Melbourne, Australia, August 22, 2019.
102. 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.
103. 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.
104. Braham, A. AAPA and Preventative Maintenance. Arkansas Asphalt Pavement Association, Little Rock, AR, June 20, 2019.
105. Braham, A. An Introduction to Micro Surfacing and Slurry Seals. TRB Webinar: Building Better Micro Surfacing and Slurry Seals, April 24, 2019.
106. Braham, A. In the Field: Pavement Preservation, Maintenance, and Rehabilitation for Flexible Pavements. Connecting the DOTs, Webinar, March 27, 2019 (https://www.youtube.com/watch?v=Vt6reY3bwr8).
107. Braham, A. Teaching Panel Discussion for Biological Engineering (BENG) 5801: Graduate Seminar, University of Arkansas, Fayetteville, AR, March 11, 2019.

108. Braham, A. Roadway Maintenance: A United States Perspective. Yutave Engineering, Veracruz, Mexico, February 22, 2019.
109. 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.
110. Braham, A. Exploring pavement network treatments using RoadResource.org, Graduate Student Seminar, University of Arkansas, Fayetteville, AR, January 31, 2019.
111. Braham, A., Kadrmas, A., Ishee, M. Asphalt Emulsion Manufacturing Association (AEMA) Online Certificate, 98th Transportation Research Board, January 16, 2019.
112. 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.
113. 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.
114. 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.
115. 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.
116. Braham, A. RoadHogs Pavement Research at the University of Arkansas, Huanan University, Changsha, China, August 8, 2018.
117. Braham, A. Asphalt Emulsion Manufacturing Association (AEMA) Online Certificate, AASHTO Committee on Maintenance, Pavement Technical Working Group, Charlotte, NC, July 24, 2018.
118. Braham, A. Pavement Maintenance and Rehabilitation, Garver, Fayetteville, AR, May 31, 2018.
119. 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.
120. Braham, A. Roadway Maintenance: A United States Perspective, Universitat Politècnica de Catalunya, Barcelona, Spain, May 7, 2018.
121. 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.
122. Braham, A. AMEA online certificate development update, 2018 AEMA-ARRA-ISSA Annual Meeting, Indian Wells, CA, February 20-23, 2018.
123. Braham, A., Williams, B. Maintenance and Rehabilitation, Back 2 Basics: NAPA webinar series, December 6, 2017.
124. 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.
125. 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.
126. Braham, A. Pavements and asphalt binders. Guest lecture for Civil Engineering (CVEG) 3413: Transportation Engineering, University of Arkansas, Fayetteville, AR, October 2, 2017.

127. 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.
128. Hall, K., Braham, A. Performance-Based Mixture Design (PDB) for Arkansas, TRC1802 kick-off meeting, Little Rock, AR, August 30, 2017.
129. 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.
130. 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.
131. Braham, A. Exploring Alternative Methods of Environmental Analysis, poster presentation at Pavement Life-Cycle Assessment Symposium, Champaign, IL, April 11-13, 2017.
132. Braham, A. Overview of Research: Andrew Braham, Arkansas Asphalt Pavement Association Young Leaders Meeting, Fayetteville, AR, April 5, 2017.
133. 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.
134. Braham, A. Roadway Maintenance: A United States Perspective, Universitat Politècnica de Catalunya, Barcelona, Spain, March 28, 2017.
135. Braham, A. Pavement Maintenance and Rehabilitation: Assessing a Life Cycle Cost Analysis, Texas A&M University, Doha, Qatar, March 26, 2017.
136. Braham, A. AMEA online certificate development update, AEMA/ARRA/ISSA Annual Meeting, Tucson, AZ, February 17, 2017.
137. Braham, A. Warm Mix Asphalt versus Hot Mix Asphalt: A Reflection on Compaction Behavior, Arizona State University, Tempe, AZ, February 14, 2017.
138. 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.
139. 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.
140. 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.
141. 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.
142. 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.
143. 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.
144. 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.

145. 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.
146. 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.
147. 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.
148. 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.
149. 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.
150. 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.
151. Braham, A. Tribology: Looking Beyond Laboratory Compaction Metrics for the Superpave Gyratory Compactor. An International Workshop on the Genome of Stone-based Civil Infrastructure Materials, Beijing, China, June 9, 2016.
152. Braham, A. Past Hebei Research and Present Compaction Research. Shijiazhuang, Hebei, China, June 8, 2016.
153. Braham, A. A Synthesis of Laboratory Compaction Metrics for the Superpave Gyratory Compactor, Transportation Research Congress, Beijing, China, June 7, 2016.
154. Morales, A., Castillo, E., Braham, A. Exploring Laboratory Performance of Polyphosphoric Acid, Hong Kong Polytechnic University, Hong Kong, China, June 1, 2016.
155. 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.
156. 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.
157. 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
158. 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.
159. Braham, A. AAPT Newer Member Committee (NMC) update. 91st Association of Asphalt Paving Technologists Annual Meeting, Indianapolis, IN, March 14, 2016.
160. Braham, A. Asphalt Emulsion Residue Recovery: State of the State. AEMA/ARRA/ISSA Annual Meeting, Bonita Springs, FL, February 24, 2016.
161. 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.

162. 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.
163. 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.
164. 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.
165. 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.
166. 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.
167. 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.
168. 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.
169. 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.
170. 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.
171. 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.
172. 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.
173. 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.
174. Braham, A. Sustainability in Civil Engineering, ASCE Day of Training, Fayetteville, AR, March 4, 2015.
175. 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.
176. Braham, A. Jackson, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, Fayetteville, AR, August 29, 2014.
177. Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province, Final Report Presentation, Hebei, Shijiazhuang, China, March 27, 2014.
178. 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.

179. 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.
180. 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.
181. Braham, A. Sustainability and Pavements, INGETEC, Ingenieros Consultores, Bogota, Colombia, February 13, 2014.
182. 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.
183. Braham, A. Sustainability and Pavements, Pontificia Universidad Javeriana, Bogota, Colombia, February 12, 2014.
184. Braham, A. The Importance of Pavement Maintenance and Rehabilitation of Pavements, Universidad de los Andes, Bogota, Colombia, February 12, 2014.
185. Braham, A. Sustainability and Pavements, Universidad de los Andes, Bogota, Colombia, February 10, 2014.
186. Braham, A. Pavement Research at the University of Arkansas and Exploring Full Depth Reclamation (FDR), Universidad de los Andes, Bogota, Colombia, February 7, 2014.
187. 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.
188. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 12, 2014.
189. Ryan, J., Braham, A. Foamed Asphalt Viscosity, Presentation at Texas A&M University for Texas Transportation Institute, College Station, TX, August 5, 2013.
190. 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.
191. 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.
192. Ryan, J., Braham, A. Workability of Foamed Warm Mix Asphalt, Association of Asphalt Paving Technologists, Poster Presentation, Denver, CO, April 7 – 10, 2013.
193. Yang, S., Braham, A. The Investigation of R-Curve and Crack Propagation in Asphalt Concrete, AAPT, Poster Presentation, Denver, CO, April 7 – 10, 2013.
194. 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.
195. SEC Travel Grant Presentation. Presented “Pavement Research at the University of Arkansas,” Gainesville, FL, March 19, 2013.
196. 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.
197. 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.
198. 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.

199. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 14, 2013.
200. Arkansas Portland Cement Concrete Pavement Conference. Presented “Concrete Pavement Research Overview,” Little Rock, AR, August 7, 2012.
201. 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.
202. Royal Institute of Technology (KTH). Presented “An Overview of Pavement Research at the University of Arkansas,” Stockholm, Sweden, June 15, 2012.
203. Harbin Institute of Technology. Presented “Asphalt Concrete Master Resistance Curves,” Harbin, Heilongjiang, China, June 8, 2012.
204. Harbin Institute of Technology. Presented “Writing a Successful Journal Publication,” Harbin, Heilongjiang, China, June 8, 2012.
205. Harbin Institute of Technology. Presented “Research at the University of Arkansas,” Harbin, Heilongjiang, China, June 8, 2012.
206. 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.
207. Southeast University. Presented “Writing a Successful Journal Publication,” Nanjing, Jiangsu, China, May 24, 2012.
208. Southeast University. Presented “Master Resistance Curves for Asphalt Concrete,” Nanjing, Jiangsu, China, May 24, 2012.
209. 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.
210. Invited guest for 10th KXUA radio (University of Arkansas student radio) Sustainability Show, hosted by Gavin Smith, Fayetteville, AR, April 14, 2012.
211. Association of Asphalt Paving Technologists Board Meeting. Presented “Newer Member Committee (NMC) Update,” Austin, TX, March 31, 2012.
212. TEAM Conference. Presented “An Overview of Hot In-place and Cold In-place Recycling,” Branson, MO, March 16, 2012.
213. InVia Pavement Technologies and Sinopec. Presented “Pavement Research at the University of Arkansas,” Tulsa, OK, March 14, 2012.
214. Missouri S&T and Arkansas Collaboration meeting. Presented "Transportation Capabilities and Projects." Rolla, MO, March 2, 2012.
215. Quality Asphalt Paving Conference. Presented "Pavinars – Webinars for the Pavement Community." Little Rock, AR, January 5, 2012.
216. Arkansas Portland Cement Concrete Pavement Conference. Presented “Life Cycle Cost Analysis Versus Life Cycle Analysis.” Little Rock, AR, August 30, 2011.
217. Seoul National University of Science & Technology. Presented “Warm Mix Asphalt in the United States.” Seoul, South Korea, June 14, 2011.
218. Korean Society of Road Engineers. Presented “Asphalt Concrete and Fracture.” Seoul, South Korea, June 13, 2011.
219. Engineering Mechanics Institute 2011, Dallas Little Honorary Symposium. Presented “Innovative Methods of Analyzing Fracture Data from Asphalt Concrete.” Boston, MA, June 3, 2011.
220. Arkansas Asphalt Pavement Association Annual Meeting. Presented “Pavinars: Webinars for the Pavement Community.” Hot Springs, AR, March 30, 2011.

221. Paragon Technical Services, Inc. Presented "Pavement Maintenance Products Research." Jackson, MS, March 21, 2011.
222. Preservation and Rehabilitation 2011 – AEMA/ARRA/ISSA Annual Meeting. Presented "Current & Future Laboratory Research on Pavement Maintenance Products." Tucson, AZ, January 25, 2011.
223. 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.
224. 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.
225. University of Arkansas. Presented "A Brief Look at the Past, plus Five to Ten Years in the Future." Fayetteville, AR, April 20, 2010.
226. Airport Pavement Design and Management Summit 2010. Presented "New Research within the Area of Warm Mix Asphalt." Singapore, January 27, 2010.
227. 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.
228. Virginia Tech University. Presented "Dr. Fujian Ni's Research Group at Southeast University." Blacksburg, VA, January 16, 2010.
229. Transportation Research Board AFK20 committee meeting. Presented "Asphalt Cement in China: Today and Tomorrow." Washington, D.C., January 11, 2010.
230. New Technology Promotion of Road Pavement Engineering Materials Summit. Presented "Warm Mix Asphalt in the United States." Changzhou, Jiangsu, China, December 25, 2009.
231. Sejong University. Presented "Fracture Characteristics of Asphalt Concrete." Seoul, South Korea, November 7, 2009.
232. 11th Korean Society of Road Engineers Conference. Presented "Fracture Characteristics of Asphalt Concrete." Busan, South Korea, November 6, 2009.
233. 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.
234. 13th International Flexible Pavements Conference. Presented "Prediction of Rutting in China." Surfers Paradise, Australia, October 14, 2009.
235. 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.
236. 7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mode II Cracking in Asphalt Concrete." Rhodes, Greece, May 27, 2009.
237. 7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mixed-Mode Cracking in Asphalt Concrete." Rhodes, Greece, May 28, 2009.
238. 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.
239. Transportation Research Board. Poster presentation "Anisotropic Behavior of Hot Mix Asphalt at Low Temperatures." No. 08-0885, Washington, D.C., January 15, 2008.
240. 8th International Symposium on Cold Region Development. Presented "Effect of Hot Mix Asphalt Pavement Depth on Fracture Energy." Tampere, Finland, September 25, 2007.

241. 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.
242. Society for Experimental Mechanics Annual Conference and Exposition. Presented "Development of a Flattened Indirect Tension Test for Asphalt Concrete." Springfield, MA, June 5, 2007.
243. 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.
244. 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.
245. 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 click here
2. June 19, 2026: Reading a Journal Article: 2026 Update
3. May 17, 2026: Gravel Road (a.k.a. Unbound Road) Fundamentals
4. March 22, 2026: Bio-binder sustainable asphalt: materials, processing methods, performance, practical applications
5. February 7, 2026: Assessing Effect of Material Properties on Full-Depth Reclamation Mixtures via UCS Characterization
6. January 4, 2026: Asphalt Mixture Laboratory Compaction Metrics
7. December 28, 2025: Impact of Equipment Type on Measured Particle Size of Civil Engineering Materials
8. December 7, 2025: Characterising asphalt emulsion: a study of thermal and chemical properties via TGA and FTIR
9. October 5, 2025: High Float (HF) Asphalt Emulsions
10. September 6, 2025: Establishing Particle Size Recommendations for Cationic Asphalt Emulsions
11. September 1, 2025: Performing a Literature Review: 2025 Update
12. August 10, 2025: Development of Macrocracking Master Curves of Asphalt Mixtures
13. July 13, 2025: Asphalt Emulsion Cold In-Place Recycling Mix Design Practices – White paper
14. July 6, 2025: Tips on Responding to Journal Paper Reviewer Comments
15. June 29, 2025: Artificial Intelligence in Academia
16. June 14, 2025: Quantifying the Workability of Cold In-Place Recycling in the Laboratory
17. May 11, 2025: Flexible pavement combination maintenance treatments
18. April 20, 2025: Comparative LCCA of Flexible and Rigid Pavement: A Case Study of Four Arkansas Roadway Sections
19. March 15, 2025: Life Cycle Assessment 4 Two Flexible Pavement Maintenance Strategies: production, construction, use
20. February 26, 2025: Viscoelasticity and Asphalt Materials
21. October 8, 2024: Comparison of Lab-Produced Asphalt Emulsions by Manufacturing Equipment Type
22. October 3, 2024: Refining particle size specification for asphalt emulsion

23. September 29, 2024: Developing a particle size specification for asphalt emulsion
24. September 15, 2024: Writing a Background Section
25. August 31, 2024: Development of a Performance-Based Approach to Asphalt Emulsion Selection for Cold In-Place Recycling Applications
26. August 4, 2024: Ultra Thin Bonded Wearing Course (UTBWC)
27. July 18, 2024: Evaluation of Semicircular Bend Geometric Properties for Asphalt Concrete Testing
28. July 14, 2024: Potholes: Who, what, where, when, why, how?
29. January 14, 2024: Differences of Portland Cement Concrete (Rigid) & Asphalt Concrete (Flexible): 2024 Update
30. October 1, 2023: Fatigue or Not Fatigue – That is the Question
31. June 17, 2023: Tack Coats for Flexible Pavements
32. June 10, 2023: Graduate School: Proposal Defense
33. May 21, 2023: Quantifying Pavement Preservation in Arkansas
34. May 4, 2023: Balanced Mix Design for Asphalt Mixtures
35. April 16, 2023: Pavement Preservation
36. November 13, 2022: Pervious Pavements
37. September 20, 2022: Project Management
38. September 4, 2022: Quantifying effects of laboratory curing conditions on workability, compactability, and cohesion gain of Cold In-place Recycling
39. July 31, 2022: Exploring the Influence of Pavement Preservation, Maintenance, and Rehabilitation on Arkansas' Highway Network: An Education Case Study
40. June 19. 2022: Longitudinal Joints in Asphalt Pavements
41. April 9, 2022: Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis
42. March 19, 2022: Reclaimed Asphalt Pavement (RAP) – 2022 Update
43. December 18, 2021: Overview of Warm Mix Asphalt – 2021 Update
44. December 5, 2021: SAMI (Stress Absorbing Membrane Interface) & other stress relief asphalt layers–2021 Update
45. October 17, 2021: Influence of Time After Crushing for Cold In-place Recycling on Compaction and Raveling
46. September 26, 2021: Introduction to Hot Mix Asphalt (HMA) Mix Design – 2021 Update
47. September 6, 2021: Rheological Parameters of Asphalt Binder
48. August 22, 2021: Transitioning your Mindset to Graduate School: Bloom's Taxonomy
49. June 27, 2021: Comprehensive evaluation of in service pavements
50. June 20, 2021: Performing a Literature Review
51. May 23, 2021: Evaluation and Compaction of Laboratory-Produced Recycled Asphalt Pavement in Cold In-place Recycling
52. May 16, 2021: Writing a Journal Article
53. May 9, 2021: Aging of Asphalt Binder
54. April 18, 2021: Giving a Presentation
55. April 11, 2021: Asphalt emulsion stabilized unbound material (base and subbase)
56. April 4, 2021: Writing an Abstract
57. March 28, 2021: Innovative pavement techniques and products
58. March 21, 2021: Reading a Journal Article
59. March 7, 2021: Comparing layer types for the use of PavementME for asphalt emulsion Full Depth Reclamation design
60. February 16, 2021: Pavement Management Systems – 2021 Update
61. January 31, 2021: R-curves characterisation analysis for asphalt concrete
62. January 17, 2021: Life Cycle Cost Analysis – 2021 Update

63. December 27, 2020: Influence of binder grade, gradation, temperature, and loading rate on R-curve of asphalt concrete
64. December 13, 2020: What is Mechanistic Empirical? 2020 Update
65. November 25, 2020: The Characterisation of Foamed Asphalt Cement Using a Rotational Viscometer
66. September 27, 2020: Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation
67. August 13, 2020: Hot In-place Recycling (HIR): 2020 Update
68. August 2, 2020: Correlating field performance to laboratory dynamic modulus from indirect tension and torsion bar
69. July 19, 2020: Stone Matrix Asphalt (SMA): 2020 Update
70. July 5, 2020 : Exploring the Effect of Asphalt-Concrete Fabrication and Compaction Location on Six Compaction Metrics
71. June 14, 2020: Reducing Sample Size for Cold In-place Recycling Design and Testing
72. April 29, 2020: Influence of Aging and Moisture on Laboratory Performance of Asphalt Concrete
73. February 19, 2020: The Development of Master Fracture Curves for Asphalt Concrete
74. February 5, 2020: Development of a Field Measuring Device for Return to Traffic for Full-Depth Reclamation Pavements
75. May 6, 2014: Portland Cement Concrete Overlays
76. April 1, 2014: Wide Base Tires, a.k.a. Super Singles
77. March 4, 2014: High Levels of Recycled Asphalt Pavement (RAP) in Asphalt Concrete
78. February 4, 2014: An Overview of Biobinders
79. December 3, 2013: New Developments in Airfield Pavements
80. November 5, 2013: Deicers and Concrete Pavements
81. October 1, 2013: SAMI (Stress Absorbing Membrane Interface) and Other Stress Relief Asphalt Layers
82. September 3, 2013: Use of Recycled Asphalt Shingles from Processing Through Plant Production
83. May 7, 2013: Foamed Asphalt and Laboratory Testing (specifically M_R)
84. April 2, 2013: Sustainability and Pavements
85. March 5, 2013: Pavement Management Systems
86. February 5, 2013: Different Methods of Asphalt Pavement Crack Repair
87. December 4, 2012: Stone Matrix Asphalt
88. November 6, 2012: An Introduction to Roller Compacted Concrete
89. October 2, 2012: Stringless Paving: Advantages & Disadvantages
90. September 4, 2012: Life Cycle Cost Analysis
91. May 1, 2012: Hot In-place Recycling 101
92. April 10, 2012: Whitetopping - Is it for you?
93. March 6, 2012: Introduction to HMA Mix Design
94. February 7, 2012: Introduction to PCC Mix Design
95. December 6, 2011: What Is Mechanistic-Empirical?
96. November 1, 2011: Overview of Warm Mix Asphalt
97. October 4, 2011: Basic Portland Cement Concrete Maintenance Principles
98. September 2, 2011: Basic Asphalt Concrete Maintenance Principles
99. August 2, 2011: Differences between Portland Cement Concrete and Asphalt Concrete

TREAT Mobile Lab Overview
For an overview of the TREAT Mobile Lab click here
For an example of a TREAT Day of Training (Oklahoma) click here

TREAT Mobile Lab mobilization locations:

TREAT Mobile Lab Summaries

1. Otsego, MN, June 23-25, 2026: for a Day of Training summary click here
2. Edmond, OK, June 2-4, 2026: for a Day of Training summary click here
3. Tyler, TX, May 26-28, 2026: for a Day of Training summary click here
4. Fayetteville, AR, February 17, 2026: for a Research Day summary with Ingevity click here
5. Fayetteville, AR, October 31, 2025: for a Research Day summary with the University of Oklahoma click here
6. Salina, KS, August 12-13, 2025: for a Day of Training summary click here
7. Fayetteville, AR, May 13, 2025: for a Day of Training summary click here
8. Vicksburg, MS, June 11-13, 2024: for a Day of Training summary click here

Awards and Recognitions

- 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
- 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

- Program coordinator for the Master of Science in Pavement Technology online degree
  - Click here for the landing page – scheduled to launch Spring 2027
  - Developed with University of Arkansas Global Campus, Dr. Kevin Hall, and Dr. Cameron Murry (2024-current)
- 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 https://training.uark.edu/ and click on "Engineering")
- Developed and provided "Pavinar" webinar series (YouTube Channel: https://www.youtube.com/channel/UCbo-D_tfDFDzzn9NUPw0o8g)
- Developed with three colleagues "LeadershipWWEB" leadership podcast series (https://soundcloud.com/user-561194034)
- Coordinated three promotional videos for research group
  - Asphalt Mixture Research at the University of Arkansas
  - Asphalt Emulsion Research at the University of Arkansas
  - Pavement Maintenance and Rehabilitation Research at the University of Arkansas
- Associate Director of Southern Plains Transportation Center (SPTC, 2023-current)
- Member of Transportation Research Board (TRB) committees: Committee on Pavement Maintenance, Preservation, and Rehabilitation, AKN18 (2025-current); Committee on Pavement Maintenance, AKT30 (2023-2025); 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)
  - AKN18: Chair of committee "Pavement Maintenance, Preservation, and Rehabilitation" (2025-current)
  - AKT30: Chair of committee "Pavement Maintenance" (2023-2025)
  - AKT20: Chair of subcommittee "Integrating the Flexible Pavement Life Cycle" (2022-2023)
  - AKT20: Workshop organizer for: 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)
- Coordinator for "Profiles in Preservation" – a student feature in the Pavement Preservation Journal (2016 – current)
- Member of the AASHTO Preservation Management Emulsion Task Force (2026-current)
  - Co-chair of AASHTO Preservation Management Emulsion Task Force (ETF) Research Subcommittee (2023-current)
- Member of International Slurry Surfacing Association (ISSA) Sustainability Committee (2025-current)
- Member of Asphalt Institute Foundation (AIF) Education Committee (2025-current)
- Member of the Arkansas Asphalt Pavement Association Quality Conference Planning Committee (2025-current)

- 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*
- Chair of Pavement Preservation and Recycling Alliance (PPRA) Sustainability Committee (2020-2025)
    - Developed and led PPRA Sustainability Committee Workshop, April 13-14, 2020.
- Editorial Board Member for Road Materials and Pavement Design (2021-2024)
- 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, 2024-2025), 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: 2025 Advances in Materials and Pavement Performance Prediction, AM3P, Vienna, Austria; 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: University of Arkansas Imhoff Award for Teaching & Student Mentorship Committee (2022-current); College of Engineering Promotion and Tenure Committee (2023-current); College of Engineering Distance Education Committee (2021-current); College of Engineering Technology Committee (2013-current); chair of Civil Engineering Department Sustainability Minor task group (2012-2025); chair of Civil Engineering Department Unit Committee (2023-2025); University Diversity and Inclusion Champion (2018-2025), 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* (eight semesters at University of Arkansas; senior)
- Developed and taught *Sustainability in Civil Engineering* (eleven semesters at University of Arkansas; senior/grad)
- Enhanced and taught *Structural Design of Pavement Systems* (five 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* (two semesters at University of Arkansas; grad/senior)
- Developed and taught *Sustainability in Civil Engineering* (fifteen semesters at University of Arkansas; online graduate)
- Developed and taught *Sustainability in Construction Management* (nine semesters at University of Arkansas; online graduate)
- Enhanced and taught *Transportation Engineering* (eight semesters at University of Arkansas; junior)
- 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)
- Developed and taught *Asphalt Emulsions* (one semester at University of Arkansas; grad)
- Developed and taught *Manufacturing Asphalt Emulsion* (one semester at University of Arkansas; grad)
- 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
- Enhanced and taught *Transportation Pavement and Materials* (one semester at University of Arkansas; senior/grad)
- Enhanced and taught *Geometric Design of Roads* (one semester at University of Arkansas; senior)
- 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

Post-Doctoral Research Scholar (1) – Chandra Vaddy (2025 – current)
Ph.D. (8) – Amarjeet Tiwari (2025 – current); Toluwanimi Ogundipe (2025 – current); Tanner Turben (2024 – current); Mohammad Tahir Ansari (2024 – current); Anik Roy (2024 – current); 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. (21) – Tijesunimi Bishi (2026 – current); Rasool Fazeli (2025 – current); Amarjeet Tiwari (2025); Jackson Hedden (2025); Toluwanimi Ogundipe (2024); Tanner Turben (2024); Mohammad Tahir Ansari (2024); Anik Roy (2024); Jonathan Stonestreet (2024); 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 (12) – Alexis Light (2025); Lydia Quinn (2025); 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) – Rasool Nemati (University of New Hampshire, Ph.D. Civil Engineering, 2019); Teresa Lopez Montero (UPC Barcelona, Ph.D. Engineering); Nazmul Chowdhury (Arkansas State University, M.S. Engineering, 2015)

Funding Sources

Arkansas Department of Higher Education (ADHE), 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 (8 companies), SEC Visiting Faculty Travel Grant Program, Southeast University (Nanjing, China), Southern Plains Transportation Center (SPTC), Strategic Highway Research Program II (SHRP2), United States Army Corps of Engineers Engineer Research and Development Center (ERDC), United States Department of Transportation (USDOT), University of Arkansas, Women's Giving Circle