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**Education**

University of Illinois, Urbana, IL	Civil Engineering	Ph.D., 2008
University of Wisconsin, Madison, WI	Civil Engineering	M.S., 2002
University of Wisconsin, Madison, WI	Civil Engineering	B.S., 2000

Appointments

Associate Professor, University of Arkansas, Fayetteville, AR	08/2016 – current
Assistant Professor, University of Arkansas, Fayetteville, AR	01/2011 – 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

Peer-Reviewed Publications

1. Yang, S., Braham, A. R-Curves Characterisation Analysis for Asphalt Concrete, accepted to *International Journal of Pavement Engineering*, March 2016.
2. Ryan, J., Braham, A. The Characterization of Foamed Asphalt Cement Using a Rotational Viscometer, accepted to *International Journal of Pavement Engineering*, November 2015.
3. Yang, S., Braham, A., Underwood, S., Hanz, A., Reinke, G. Correlating Field Performance to Laboratory Dynamic Modulus from Indirect Tension and Torsion Bar, accepted to *Journal of the Association of Asphalt Paving Technologists*, November, 2015.
4. Smith, S., Henrichs, C., Braham, A. Exploring Compaction Methods for Laboratory Performance of Full Depth Reclamation, Vol. 45, No. 2, March 2017.
5. 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*, Vol. 28, No. 12.
6. Jackson, A., Braham, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, *Journal of Testing and Evaluation*, Vol. 44, No. 4, July 2016, pp. 1698-1705.
7. 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, 2016, pp. 527-535.
8. 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.
9. 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*, Vol. 44, No. 1, January 2016, pp. 555-564.

10. 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*, Vol. 16, No. 7, August 9, 2015, pp. 620-631.
11. Braham, A., Steger, R., Lynn, T., and Pyle, R. Characterizing Compactability of High RAP and Warm Mix Asphalt Mixtures in the Superpave Gyrotory Compactor, *Journal of Testing and Evaluation*, Vol. 43, Issue 3, May 2015, pp. 535-543.
12. 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.
13. 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.
14. 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*, Vol. 15, Issue 1, January 2014, pp. 43-50.
15. 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.
16. Braham, A., Howard, I., and Barham, J. Characterization of Emulsion Treated Asphalt Surfaces Using Bending Beam Rheometer Mixture Beams, *Journal of Testing and Evaluation*, Vol. 41, No. 2, March 2013.
17. 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*, Vol. 13, Issue 4, August 2012, pp. 350-359.
18. 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*, Vol. 39, No. 3, 2011.
19. Braham, A.F., Buttlar, W.G., Ni, F. Fracture Characteristics of Asphalt Concrete in Mixed-Mode. *Road Materials and Pavement Design*, Vol 11/4, 2010, pp. 947-968.
20. Braham, A.F., Buttlar, W.G., Clyne, T.R., Marasteanu, M.O., Turos, M.I. The Effect of Long-Term Laboratory Aging on Asphalt Concrete Fracture Energy. *Journal of the Association of Asphalt Paving Technologists*, Vol. 78, 2009, pp. 417-454.
21. 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.
22. 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.
23. 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.
24. 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.

Other Publications

1. Braham, A. Program Draws Students to Preservation, *Pavement Preservation Journal*, Summer 2016, pp. 40-41.
2. 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.
3. 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.
4. Braham, A., Bennett, A., McClinton, J. Using LinkedIn in the Classroom, *ASCE Midwest Section 2013 Annual Conference*, Salina, KS, September 18-20, 2013.
5. 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.
6. 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.
7. Hill, R., Braham, A. A Review of Full Depth Reclamation Asphalt Emulsion Mixtures. *International Symposium of Asphalt Emulsion Technology*, ISAET, Arlington, VA, October 10-12, 2012.
8. Garbacz, A., Braham, A. Identifying Fracture Energy Components of Asphalt Concrete. Proceedings of the *12th International Symposium, Advanced Technologies in Asphalt Pavements*, Seoul, Korea, July 5-6, 2012, pp. 101-112.
9. Yang, S., Ryan, J., Braham, A. Investigating Resistance Curves of Asphalt Concrete Using Digital Image Correlation. Proceedings of the *12th International Symposium, Advanced Technologies in Asphalt Pavements*, Seoul, Korea, July 5-6, 2012, pp. 91-100.
10. Braham, A., Mudford, C. Comparing the Slope of Load/Displacement Fracture Curves of Asphalt Concrete. *7th International Conference on Cracking in Pavements*, Delft, Amsterdam, June 20-22, pp. 997-1006, 2012.
11. Braham, A., Ni, F., Yang, S. An Introduction of the Arcan Testing Configuration for Mixed-Mode Cracking in Asphalt Concrete. *Proceedings of the 11th International Conference on Asphalt Pavements (ISAP)*, Nagoya, Japan, August 1-6, 2010.
12. Braham, A.F. Warm Mix Asphalt - A Brief Overview. White paper for *Airport Pavement Design and Management Summit 2010*, Singapore, January 27-28, 2010.
13. Braham, A.F., Ni, F., Zhang, M. Prediction of Rutting in China. *Proceedings of the 13th International Flexible Pavements Conference*, Surfers Paradise, Australia, October 12-14, 2009.
14. Braham, A.F., Ni, F., Zhang, M. Abstract of Prediction of Rutting in China. *Roads, Australia's Road Management and Construction Magazine*, October/November 2009, pp. 28-30.
15. Braham, A.F., Buttlar, W.G. Mode II Cracking in Asphalt Concrete. *Advanced Testing and Characterization of Bituminous Materials*, Rhodes, Greece, Eds. Loizos, PatrI, Scarpas, and Al-Qadi, CRC Press Taylor and Francis Group, New York, ISBN: 978-0-415-55854-9, Vol. 2, 2009, pp.699-706.
16. 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.
17. 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.
 18. 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.
 19. 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.
 20. 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.
 21. Braham, A. Safely Cycling on Campus. *Technograph*, Illini Media, Vol. 122, Fall, 2006, pp. 17-18.
 22. Braham, A. How Do Traffic Lights Know You Are There? *Technograph*, Illini Media, Vol. 121, Summer, 2006, p. 10.
 23. Braham, A. Building Towards a Greener Campus. *Technograph*, Illini Media, Vol. 121, Spring, 2006, pp. 16-17.
 24. Braham, A. Illinois Center for Transportation: A New Beginning. *Technograph*, Illini Media, Vol. 121, Winter, 2005, pp. 12-15.
 25. Braham, A. State of the Art. *Technograph*, Illini Media, Vol. 121, Fall, 2005, pp. 5-6.
 26. 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.
 27. Miller, E., Bahia, H.U., Benson, C., Khatri, A., Braham, A. Utilization of Waste Foundry Sand in Hot Mix Asphalt Mixtures. *American Foundrymen's Society Transactions*, Vol. 109, 2001, pp. 1393-1408.

Final Reports

1. 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.
2. 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.
3. 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.
4. 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).

5. Braham, A. Visit to University of Florida. Final report for *2013 SEC Travel Grant Program*, March 2013.
6. 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.
7. 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.
8. Braham, A. Development of the Arcan Test Configuration to Test Mixed-Mode Characteristics of Asphalt Concrete. *Postdoctoral Research Dissertation*, Southeast University, Nanjing, China, 2010.
9. 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.
10. 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.
11. 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.
12. Braham, A. The Use of Blended Recycled Foundry Sand in Hot Mix Asphalt. *M.S. Thesis*, University of Wisconsin, Madison, WI, 2002.

Invited Presentations

1. Invited lecture to Introduction to Soil Mechanics course at Seoul National University of Science & Technology. Presented "College in the United States." Seoul, Korea, June 14, 2011.
2. 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.
3. Invited presentation at the Low-Carbon, Green Asphalt Pavement Technology Conference. Presented "Warm Mix Asphalt in the United States." Nanjing, China, October 21, 2010.
4. Invited presentation at Chongqing Jiaotong University. Presented "Innovative Methods of Researching Cracking of Asphalt Concrete." Chongqing, China, May 20, 2010.
5. Invited presentation at University of Wisconsin - Madison. Presented "Capturing Mixed-Mode Cracking in Asphalt Concrete Using the Arcan Specimen." Madison, Wisconsin, USA, January 19, 2010.
6. Invited presentation at Southeast University. Presented "Cracking in Asphalt Concrete Pavements." Nanjing, China, March 19, 2008.

Presentations

1. 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.
2. 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.

3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Braham, A. Past Hebei Research and Present Compaction Research. Shijiazhuang, Hebei, China, June 8, 2016.
14. Braham, A. Transportation Materials and Sustainability, Young Investigator Forum, Transportation Research Congress, Beijing, China, June 7, 2016.
15. Braham, A. A Synthesis of Laboratory Compaction Metrics for the Superpave Gyratory Compactor, Transportation Research Congress, Beijing, China, June 7, 2016.
16. Morales, A., Castillo, E., Braham, A. Exploring Laboratory Performance of Polyphosphoric Acid, Hong Kong Polytechnic University, Hong Kong, China, June 1, 2016.
17. 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.
18. 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.
19. 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

20. 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.
21. Braham, A. AAPT Newer Member Committee (NMC) update. 91st Association of Asphalt Paving Technologists Annual Meeting, Indianapolis, IN, March 14, 2016.
22. Braham, A. Asphalt Emulsion Residue Recovery: State of the State. AEMA/ARRA/ISSA Annual Meeting, Bonita Springs, FL, February 24, 2016.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. Henrichs, C., Braham, A. Laboratory Comparison of Full Depth Reclamation Stabilization Techniques Using Arkansas Field Materials, Graduate Student Seminar, April 30, 2015.
32. Smith, S., Braham, A. Comparing Layer Types for the Use of MEPDG for FDR Design, University of Arkansas, Graduate Student Seminar, March 12, 2015.
33. 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
34. Smith, S., Braham, A. Labor Comparing Layer Types for the Use of MEPDG for FDR Design, Poster Presentation, Association of Asphalt Paving Technologists, Portland, OR, March 7-11, 2015
35. 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.
36. Braham, A. Sustainability in Civil Engineering, ASCE Day of Training, Fayetteville, AR, March 4, 2015.

37. 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.
38. Braham, A. Jackson, A. Reducing Sample Size for Cold In-place Recycling Design and Testing, Fayetteville, AR, August 29, 2014.
39. Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province, Final Report Presentation, Hebei, Shijiazhuang, China, March 27, 2014.
40. 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.
41. 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.
42. 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.
43. Braham, A. Sustainability and Pavements, INGETEC, Ingenieros Consultores, Bogota, Colombia, February 13, 2014.
44. 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.
45. Braham, A. Sustainability and Pavements, Pontificia Universidad Javeriana, Bogota, Colombia, February 12, 2014.
46. Braham, A. The Importance of Pavement Maintenance and Rehabilitation of Pavements, Universidad de los Andes, Bogota, Colombia, February 12, 2014.
47. Braham, A. Sustainability and Pavements, Universidad de los Andes, Bogota, Colombia, February 10, 2014.
48. Braham, A. Pavement Research at the University of Arkansas and Exploring Full Depth Reclamation (FDR), Universidad de los Andes, Bogota, Colombia, February 7, 2014.
49. 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.
50. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 12, 2014.
51. Ryan, J., Braham, A. Foamed Asphalt Viscosity, Presentation at Texas A&M University for Texas Transportation Institute, College Station, TX, August 5, 2013.
52. 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.
53. Yang, S., Braham, A. Research of Evotherm Warm Mix Technology and RAP Usage for Hebei Province, Presentation to Hebei Province research team, Shijiazhuang, China, May 30, 2013.
54. Ryan, J., Braham, A. Workability of Foamed Warm Mix Asphalt, Association of Asphalt Paving Technologists, Poster Presentation, Denver, CO, April 7 – 10, 2013.
55. Yang, S., Braham, A. The Investigation of R-Curve and Crack Propagation in Asphalt Concrete, Association of Asphalt Paving Technologists, Poster Presentation, Denver, CO, April 7 – 10, 2013.
56. 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.

57. SEC Travel Grant Presentation. Presented "Pavement Research at the University of Arkansas," Gainesville, FL, March 19, 2013.
58. 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.
59. 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, Transportation Research Board, Washington, DC, January 16, 2013.
60. 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.
61. Underwood, S., Braham, A. Research Needs Statements: The Foundation of Successful Proposals, Transportation Research Board, Doctoral Workshop, Washington, DC, January 14, 2013.
62. Arkansas Portland Cement Concrete Pavement Conference. Presented "Concrete Pavement Research Overview," Little Rock, AR, August 7, 2012.
63. 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.
64. Royal Institute of Technology (KTH). Presented "An overview of pavement research at the University of Arkansas," Stockholm, Sweden, June 15, 2012.
65. Harbin Institute of Technology. Presented "Asphalt Concrete Master Resistance Curves," Harbin, Heilongjiang, China, June 8, 2012.
66. Harbin Institute of Technology. Presented "Writing a successful journal publication," Harbin, Heilongjiang, China, June 8, 2012.
67. Harbin Institute of Technology. Presented "Research at the University of Arkansas," Harbin, Heilongjiang, China, June 8, 2012.
68. 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.
69. Southeast University. Presented "Writing a successful journal publication," Nanjing, Jiangsu, China, May 24, 2012.
70. Southeast University. Presented "Master Resistance Curves for Asphalt Concrete," Nanjing, Jiangsu, China, May 24, 2012.
71. 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.
72. Invited guest for 10th KXUA radio (University of Arkansas student radio) Sustainability Show, hosted by Gavin Smith, April 14, 2012.
73. Association of Asphalt Paving Technologists Board Meeting. Presented "Newer Member Committee (NMC) Update," Austin, TX, March 31, 2012.
74. TEAM Conference. Presented "An Overview of Hot In-place and Cold In-place Recycling," Branson, MO, March 16, 2012.
75. InVia Pavement Technologies and Sinopec. Presented "Pavement Research at the University of Arkansas," Tulsa, OK, March 14, 2012.
76. Missouri S&T and Arkansas Collaboration meeting. Presented "Transportation Capabilities and Projects." Rolla, MO, March 2, 2012.
77. Quality Asphalt Paving Conference. Presented "Pavinars – Webinars for the Pavement Community." Little Rock, AR, January 5, 2012.

78. Arkansas Portland Cement Concrete Pavement Conference. Presented "Life Cycle Cost Analysis Versus Life Cycle Analysis." Little Rock, AR, August 30, 2011.
79. Seoul National University of Science & Technology. Presented "Warm Mix Asphalt in the United States." Seoul, Korea, June 14, 2011.
80. Korean Society of Road Engineers. Presented "Asphalt Concrete and Fracture." Seoul, Korea, June 13, 2011.
81. Engineering Mechanics Institute 2011, Dallas Little Honorary Symposium. Presented "Innovative Methods of Analyzing Fracture Data from Asphalt Concrete." Boston, MA, June 3, 2011.
82. Arkansas Asphalt Pavement Association Annual Meeting. Presented "Pavinars: Webinars for the Pavement Community." Hot Springs, AR, March 30, 2011.
83. Paragon Technical Services, Inc. Presented "Pavement Maintenance Products Research." Jackson, MS, March 21, 2011.
84. Preservation and Rehabilitation 2011 – AEMA/ARRA/ISSA Annual Meeting. Presented "Current & Future Laboratory Research on Pavement Maintenance Products." Tucson, AZ, January 25, 2011.
85. 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.
86. 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.
87. University of Arkansas. Presented "A Brief Look at the Past, plus Five to Ten Years in the Future." Fayetteville, Arkansas, April 20, 2010.
88. Airport Pavement Design and Management Summit 2010. Presented "New Research Within the Area of Warm Mix Asphalt." Singapore, January 27, 2010.
89. 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.
90. Virginia Tech University. Presented "Dr. Fujian Ni's Research Group at Southeast University." Blacksburg, VA, USA, January 16, 2010.
91. Transportation Research Board AFK20 committee meeting. Presented "Asphalt Cement in China: Today and Tomorrow." Washington, D.C., USA, January 11, 2010.
92. New Technology Promotion of Road Pavement Engineering Materials Summit. Presented "Warm Mix Asphalt in the United States." Changzhou, China, December 25, 2009.
93. Sejong University. Presented "Fracture Characteristics of Asphalt Concrete." Seoul, Korea, November 7, 2009.
94. 11th Korean Society of Road Engineers Conference. Presented "Fracture Characteristics of Asphalt Concrete." Busan, Korea, November 6, 2009.
95. Keynote Presentation at the 11th Korean Society of Road Engineers Conference. Presented "Twenty Years of Highway Construction in China: 1988-2008." Busan, Korea, November 5, 2009.
96. 13th International Flexible Pavements Conference. Presented "Prediction of Rutting in China." Surfers Paradise, Australia, October 14, 2009.
97. GeoHunan International Conference on Challenges and Recent Advances in Pavement Technologies and Transportation Geotechnics. Presented "China's Warm Mix Asphalt Experience." Changsha, China, August 3, 2009.

98. 7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mode II Cracking in Asphalt Concrete." Rhodes, Greece, May 27, 2009.
99. 7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials. Presented "Mixed-Mode Cracking in Asphalt Concrete." Rhodes, Greece, May 28, 2009.
100. 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., USA, January 13, 2009.
101. Transportation Research Board. Poster presentation "Anisotropic Behavior of Hot Mix Asphalt at Low Temperatures." No. 08-0885, Washington, D.C., USA, January 15, 2008.
102. 8th International Symposium on Cold Region Development . Presented "Effect of Hot Mix Asphalt Pavement Depth on Fracture Energy." Tampere, Finland, September 25, 2007.
103. National Center for Asphalt Technology, Professor Training Course in Asphalt Technology. Presented "Development of a Flattened Indirect Tension Test for Asphalt Concrete." Auburn, AL, USA, June 28, 2007.
104. Society for Experimental Mechanics Annual Conference and Exposition. Presented "Development of a Flattened Indirect Tension Test for Asphalt Concrete." Springfield, MA, USA, June 5, 2007.
105. Illinois Asphalt Pavement Association 70th Annual Meeting. Presented the idea of a Hot Mix Asphalt Design competition between universities in Illinois and Indiana. I generated this idea based on my experience in Wisconsin's competition. Springfield, IL, USA, March 13, 2007.
106. 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., USA, January 23, 2007.
107. 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., USA, January 22 (AFK20) and January 24 (AFK50), 2007.

Pavinars

1. May 6, 2014: Portland Cement Concrete Overlays
2. April 1, 2014: Wide Base Tires, a.k.a. Super Singles
3. March 4, 2014: High Levels of Recycled Asphalt Pavement (RAP) in Asphalt Concrete
4. February 4, 2014: An Overview of Biobinders
5. December 3, 2013: New developments in airfield pavements
6. November 5, 2013: Deicers and concrete pavements
7. October 1, 2013: SAMI (Stress Absorbing Membrane Interface) and other stress relief asphalt layers
8. September 3, 2013: Use of Recycled Asphalt Shingles from processing through plant production.
9. May 7, 2013: Foamed Asphalt and Laboratory Testing (specifically M_R)
10. April 2, 2013: Whitetopping - is it for you?
11. March 5, 2013: Pavement Management Systems
12. February 5, 2013: Different Methods of Asphalt Pavement Crack Repair
13. December 4, 2012: Stone Matrix Asphalt

14. November 6, 2012: An Introduction to Roller Compacted Concrete
15. October 2, 2012: Stringless Paving: Advantages & Disadvantages
16. September 4, 2012: Life Cycle Cost Analysis
17. May 1, 2012: Hot In-place Recycling 101
18. April 10, 2012: Whitetopping - is it for you?
19. March 6, 2012: Introduction to HMA Mix Design
20. February 7, 2012: Introduction to PCC Mix Design
21. December 6, 2011: What is Mechanistic-Empirical?
22. November 1, 2011: Overview of Warm Mix Asphalt
23. October 4, 2011: Basic Portland Cement Concrete Maintenance Principles
24. September 2, 2011: Basic Asphalt Concrete Maintenance Principles
25. August 2, 2011: Differences between Portland Cement Concrete and Asphalt Concrete

Awards and Recognition

- 2016 Outstanding Teacher Award – Civil Engineering, University of Arkansas
- 2016 Outstanding Faculty Award (nomination) – University of Arkansas
- 2016 Award of Recognition – Association of Asphalt Paving Technologist
- 2014 Outstanding Mentor Award – University of Arkansas
- 2012 Outstanding Mentor Award – University of Arkansas
- 2012 New Faculty Teaching Commendation – University of Arkansas

Synergistic Activities

- Creator of “Pavinar” webinar series
- Editorial Board Member for *Journal of Testing and Evaluation* and *Road Materials and Pavement Design*
- 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, Road Materials and Pavement Design, Transportation Research Record*
- Member of Transportation Research Board committees: Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements, AFK50 (2012-current); Committee on Pavement Preservation, AHD18 (2012-current); Characteristics of Bituminous Materials, AFK20 (2011-current)
 - AFK20: Member of Asphalt Emulsion subcommittee
- Member of Membership Committee for the Association of Asphalt Paving Technologists (2015-current), chair of the Newer Members Committee (2012-2016), member of Publications Committee (2013-2014)
- Faculty advisor in Department of Civil Engineering at University of Arkansas for student groups: Chi Epsilon (2015-current); Transportation Leaders in the 21st Century (TL21, 2015-2016)
- Member of University of Arkansas committees: College of Engineering Technology Committee (2013-current); chair of Department Sustainability Minor task group (2012-current); University Transit, Parking, and Traffic Committee (2011-2014); Department Transportation Faculty Search Committee (2012, 2013, 2014); Department Graduate Studies Committee (2011-2014)
- Participated in Annual Major Greeks (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 exhibit on pavements
- Program Facilitator for the 2005-08 University of Illinois Leadership Center
- 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

Collaborators – last two years

Barham, Jason (Subsea Pipeline Engineer at Cronus Technology, Inc); *Cox, Ben* (Mississippi State University); *Chowdhury, Nazmul* (Missouri Department of Transportation); *Hanz, Andrew* (MTE Services); *Henrichs, Chase* (BNSF Railway); *Hill, Robert* (The Schemmer Associates); *Hernandez, Sarah* (University of Arkansas); *Hossain, Zahid* (Arkansas State University); *Howard, Isaac* (Mississippi State University); *Jackson, Alex* (Barnhart Crane & Rigging); *Reinke, Gerald* (Mathy Construction); *Ryan, John* (Kimley Horn & Associates); *Smith, Sadie* (University of Arkansas); *Steger, Richard* (Ingevity); *Underwood, Shane* (Arizona State University); *Wang, Lianfang* (Hebei Traffic Planning and Design Institute); *Wang, Qingkai* (Hebei Traffic Planning and Design Institute); *Yang, Shu* (Hunan University)

Courses Taught

- Enhanced and taught *Transportation Engineering* (seven semesters at University of Arkansas; junior)
- Developed and taught *Sustainability in Civil Engineering* (six semesters at University of Arkansas; senior/grad)
- Developed and taught *Advanced Materials Characterization* (one semester at University of Arkansas; grad/senior)
- Enhanced and taught *Structural Design of Pavement Systems* (two semesters at University of Arkansas; grad/senior);
- Enhanced and taught *Transportation Pavement and Materials* (one semester at University of Arkansas; senior/grad)
- Enhanced and taught laboratory section of *Asphalt Materials I* (two semesters at University of Illinois; undergrad)
- Taught laboratory section of *Construction Materials* (two semesters at University of Wisconsin; undergrad)

Graduate Advisors and Postdoctoral Sponsors

Postdoctoral Research Fellow, Dr. Fujian Ni, Southeast University, Nanjing, 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 and Postgraduate-Scholar Sponsor

Ph.D. – Sadie Smith (2016-current); Airam Morales (2016-current)
 Shu Yang (2016, currently Assistant Professor at Hunan University, Changsha, China)
 M.S. – Erica Yeung (2015-current); 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 – Farida Mahmud (2015-current); Rebekah Porter (2016); Karangwa Ken Rutabana (2015); Sadie Smith (2013); Alex Jackson (2012)
FEP Honors Program – Eli LaSalle/Emma Presley (2016); Zachary Lemmon/Reihle Saldana (2015); Abby Terlouw/Becca McCann (2014)

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Arkansas State Highway and Transportation Department, Asphalt Emulsion Manufacturing Association, China Postdoctoral Science Foundation, Hebei Province (China), Mack-Blackwell Rural Transportation Center, National Natural Science Foundation of China, National Science Foundation, private industry, SEC Visiting Faculty Travel Grant Program, Southeast University (Nanjing, China), University of Arkansas Department of Civil Engineering, University of Arkansas College of Engineering, Women's Giving Circle