Samuel B. Cooper III, Ph.D., P.E.
Materials Research Administrator
Louisiana Transportation Research Center
Louisiana Department of Transportation and Development
4101 Gourrier Avenue, Baton Rouge, Louisiana 70808
Phone (225) 767-9164 ***Fax*** (225) 767-9108 ***Email*** samuel.cooperIII@la.gov

PERSONAL DATA

Country of Citizenship: U.S.A.

RESEARCH & TEACHING INTERESTS

Transportation Materials, Sustainable Construction, Asphalt Cement Characterization, Asphalt Mixture Design and Analysis, Asphalt Mixture Characterization, Pavement Design and Analysis, Infrastructure Resilience, Geometric Design of Highways

EDUCATION

B.S. in Civil Engineering, University of Central Florida, 2007, G.P.A.: *3.389*
B.S. in Environmental Engineering, University of Central Florida, 2007, G.P.A.: *3.417*
M.S. in Civil Engineering, Louisiana State University, 2011
Thesis: *Evaluation of Volumetric and Mechanistic Properties of Asphalt Mixtures: Laboratory vs. Field*
Advisor: *Dr. Louay Mohammad*
G.P.A.: *4.0/4.0*
Ph.D. in Civil Engineering, Louisiana State University, 2015
Dissertation: *Evaluation of Volumetric and Mechanistic Properties of Asphaltic Mixtures: Design, Production and Construction*
Advisor: *Dr. Louay Mohammad*
G.P.A.: *4.0/4.0*

NON-ACADEMIC EXPERIENCE

October 2025 to Present
Director – Louisiana Transportation Research Center
Louisiana Department of Transportation

October 2015 to October 2025
Materials Research Administrator
Louisiana Department of Transportation

December 2014 to October 2015
Asphalt Research Manager
Louisiana Department of Transportation

January 2014 to December 2014
Asphalt Research Engineer
Louisiana Department of Transportation

January 2012 to January 2014
Asphalt Research Engineering Intern II
Louisiana Department of Transportation

December 2007 to August 2008
Transportation Design Engineer Intern
Dyer, Riddle, Mills and Precourt, Inc.

October 2005 to December 2007
Transportation Design Student Intern
Dyer, Riddle, Mills and Precourt, Inc.

ACADEMIC EXPERIENCE

May 2018 – Present
Assistant Professor – Research, Dept. of Civil & Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana.

August 2015 – May 2018
Adjunct Instructor, Dept. of Civil & Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana.

August 2008 to May 2015
Graduate Teaching Assistant, Dept. of Civil & Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana.

AWARDS AND RECOGNITIONS

- Emmons Award – Journal of the Association of Asphalt Paving Technologists Best Paper Award
- Distinguished Dissertation (2015) – LSU CEE Department
- Graduate Student of the Year (2015) – LSU CEE Department
- Troy H. Middleton Scholarship Recipient
- Paper titled "Evaluating Effects of Volumetric and Mechanistic Test Variability on Asphalt Pavement Performance: Applying Mechanistic-Empirical Pavement Design Guide" was selected to be included in the 2012 Transportation Research Board Catalog of Practical Papers, January 22-26, 2012, Washington, D.C.
- CEE Graduate Student Enrichment Award
- CEE Graduate Student Research Conference, 2013 – Best Poster Runner-up
- Chevron Engineering Post-Doctoral and Graduate Student Fellowship Recipient
- National Asphalt Pavement Association Young Leader's Award Recipient
- Highway Engineering Exchange Program Educator and Student Participant
- Louisiana State University Department of Civil and Environmental Graduate Assistantship
- Louisiana State University Department of Civil and Environmental Graduate Assistantship Enhancement Supplement Recipient
- The University of Central Florida Department of Civil and Environmental Engineering Dean's List

- Member of the Golden Key Honor Academic Society
- Florida Community College Student Government All-State Academic Recognition
- Lake Sumter Community College Student Government Academic Award

PROFESSIONAL QUALIFICATIONS

Louisiana Board of Professional Engineers – Professional Engineering License No. 38628
Louisiana Board of Professional Engineers - Engineering Intern License
Florida Board of Professional Engineers - Engineering Intern License

PROFESSIONAL AFFILIATIONS

- Association of Asphalt Paving Technologists, member
- National Research Council, Transportation Research Board
  Committee AKM 10, AKM 20 (Friend), AKM 40 (Friend)
- Southeastern Asphalt User Producer Group, Board Member, Western sub-group lead LADOTD Rep., 2015 – Present
- Association of Modified Asphalt Producers – State Advisory Board, Member
- Louisiana DOTD Asphaltic Concrete Specification Committee, Member
- Golden Key Honor Academic Society, University Level Honor Society
- Phi Kappa Phi

SERVICE

UNIVERSITY

- LSU Faculty Senate, Graduate Student Representative, 2009-2010

College of Engineering

- Encounter Engineering (E2), Pavement Engineering/Materials Representative
- STEP, Pavement Engineering/Materials Representative

Department of Civil and Environmental Engineering (CEE)

- Freshman Orientation Program, Transportation Materials Representative
- Graduate Student Research Conference Judge, 2014 and 2015

Louisiana Transportation Research Center

- Research Problem Statement Identification Committee, Member, Materials, February 2013 - Present
- Southeastern Asphalt User Producer Group, Board Member, Western sub-group lead LADOTD Rep., 2015 – Present
- National Research Council, Transportation Research Board
- Federal Highway Administration – Regional, National Peer Exchange
- Federal Highway Administration – Lead State Peer Exchange – LADOTD Rep
- Federal Highway Administration – Balanced Mix Design Implementation Working Group

SPONSORED RESEARCH

Summary of Dr. Cooper's Awarded Sponsored Research

Role	Funds	No. of Projects
PI	$ 33,187,920*	4
Admin	$ 10,213,398	51
Other	$ 2,152,997	7
Total	**$45,554,315**	**62**

Awarded

1. Project Title: *Application of the Use of Low Carbon Transportation Materials in Louisiana's Highway Construction Practices*

Role: Co-PI/Administrator
Funding Source/Amount: USDOT Federal Highway Administration / FY2022 LCTM 60506-- $32,490,874.
Duration: *Granted; Notified of award deallocation by federal administration July 2025

2. Project Title: *Sustainability through Development of Life-Cycle Information Models for Pavements in Louisiana – Climate Challenge*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $477,500
Duration: 47 Months, 10/01/2023 – 09/30/2027

3. Project Title: *Literature review of IDEAL-CT and IDEAL-RT tests methods for balanced mix design*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $82,258
Duration: 12 Months, 03/04/2024 – 03/03/2025

4. Project Title: *Effect of Longitudinal Joint Construction and Density on Asphalt Pavement Performances - Phase I - State of the Practice*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $34,703
Duration: 10 Months, 08/22/2022 – 06/30/2023

5. Project Title: *Evaluation of Non-Destructive Test Pilot Projects*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $155,410
Duration: 24 Months, 08/22/2022 – 08/21/2024

6. Project Title: *Effect of Mineral Fillers on the Moisture Resistance and Performance of HMA*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $170,491

Duration: 32 Months, 06/01/2022 – 02/28/2025

7. Project Title: *Evaluation of Saturates/Aromatics/Resins/Asphaltenes (SARA) Fractionation of asphalt binders in Louisiana*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $223,135
Duration: 30 Months, 06/01/2022 – 12/31/2024

8. Project Title: *A New Generation of Porous Asphalt Pavement - OGFC Support Study*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $137,110
Duration: 35 Months, 09/01/2020 – 08/31/2023

9. Project Title: *Improvement of Open-Graded Friction Course (OGFC) Performance and Durability through Materials, Design, and Maintenance*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $79,156
Duration: 48 Months, 09/01/2020 – 09/30/2024

10. Project Title: *Development of a Standard Practice for the Design of Durable Open-Graded Friction Course (OGFC) Mixtures with Epoxy Asphalt-Support Study*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $279,463
Duration: 39 Months, 09/01/2020 – 12/30/2023

11. Project Title: *Low and Intermediate Temperature Evaluation of Binders through Dynamic Shear Rheometer*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $262,246
Duration: 36 Months, 05/11/2020 – 05/10/2023

12. Project Title: *Implementation of Semi Circular Bend Test for QC/QA of Asphalt Mixtures*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $512,939
Duration: 49 Months, 05/01/2019 – 06/30/2023

13. Project Title: *Development of a 4.75mm Asphalt Mixture Design*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $181,540
Duration: 78 Months, 06/14/2017 – 12/31/2023

14. Project Title: *Influence of Aggregate Gradation to Reduce Concrete's Permeability*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $205,097
Duration: 29 Months, 01/17/2022 – 06/30/2024

15. Project Title: *Use of an Innovative Recycling Agent for Improving the Sustainability and Durability of Asphalt Pavements*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $249,609
Duration: 40 Months, 02/01/2021 – 06/30/2024

16. Project Title: *Assessment of Long-Term Performance of Louisiana Asphalt Pavements*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $326,936
Duration: 43 Months, 11/01/2020 – 06/30/2024

17. Project Title: *Development of a Cyclic Semi-Circular Bend Test to Evaluate Asphalt Mixture Cracking Resistance at Intermediate Temperature*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $299,944
Duration: 41 Months, 01/01/2021 – 06/30/2024

18. Project Title: *Feasibility and Performance of Low Volume Roadway Mixture Design*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $92,003
Duration: 27 Months, 08/19/2019 – 11/18/2021

19. Project Title: *Evaluate Performance and Life Cycle Cost of Asphalt (8/18 Specifications)*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $140,085
Duration: 52 Months, 08/19/2019 – 12/30/2023

20. Project Title: *Development of a Moisture Sensitivity Test for Asphalt Mixtures*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $478,165
Duration: 61 Months, 05/01/2019 – 06/30/2024

21. Project Title: *Evaluation of Asphalt Rubber and Reclaimed Tire Rubber in Chip Seal Applications*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $132,995
Duration: 36 Months, 05/14/2018 – 05/31/2021

22. Project Title: *Evaluation of Non-Destructive Density Determination for QA/QC Acceptance testing*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $141,544
Duration: 15 Months, 03/15/2017 – 06/30/2018

23. Project Title: *Field Implementation of Handheld FTIR Spectrometer for Polymer Content Determination and for Quality Control of RAP Mixtures*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $200,000
Duration: 30 Months, 07/14/2017 – 01/13/2020

24. Project Title: *Support Study for Evaluation of Crumb Rubber Modification of Louisiana Mixtures*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $300,365
Duration: 44 Months, 04/15/2015 – 12/31/2018

25. Project Title: *Effects of Temperature Segregation on the Quality of Asphalt Mixtures*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $352,662
Duration: 63 Months, 08/05/2014 – 02/04/2017

26. Project Title: *Performance of WMA Technologies: Stage II – Long-term Field Performance*
Role: Research Engineer
Funding Source/Amount: NCHRP -- $103,796
Duration: 63 Months, 04/29/2011 – 07/28/2016

27. Project Title: *Chemical Characterization of Asphalts Related to their Performance*
Role: Project Manager
Funding Source/Amount: FHWA/LADOTD -- $280,078
Duration: 30 Months, 12/01/2012 – 06/30/2015

28. Project Title: *Evaluation Of Asphalt Mixtures Containing Recycled Asphalt Shingles*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $219,476
Duration: 36 Months, 04/08/2014 – 04/07/2017

29. Project Title: *Validity of Multiple Stress Creep Recovery Test for DOTD Asphalt Binder Specification*
Role: Project Manager
Funding Source/Amount: FHWA/LADOTD -- $171,788
Duration: 40 Months, 09/01/2010 – 01/31/2014

30. Project Title: *Development of Performance Based Specifications for Louisiana Asphalt Mixtures*
Role: Project Manager
Funding Source/Amount: FHWA/LADOTD -- $299,433
Duration: 40 Months, 04/01/2011 – 08/30/2014

31. Project Title: *Evaluation of Warm Mix Asphalt Technology in Flexible Pavements*

Role: Project Manager
Funding Source/Amount: FHWA/LADOTD -- $480,980
Duration: 57 Months, 03/15/2009 – 12/31/2013

32. Project Title: *MASH TL-4 Engineering Analyses and Detailing of 36-Inch and 42-Inch High Median Barriers for LADOTD*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $61,800
Duration: 5 Months, 08/01/2022 – 01/31/2023

33. Project Title: *Investigating and Developing a MASH Compliant Contraflow Ramp Closure Gate*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $20,000
Duration: 11 Months, 08/10/2021 – 07/11/2022

34. Project Title: *Skew Detection System Replacement on Vertical Lift Bridges (Phase 1)*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $50,000
Duration: 12 Months, 03/09/2020 – 12/08/2020

35. Project Title: *Investigating Available State-of-the-Art Technology for Determining Needed Information for Bridge Rating Strategies*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $95,800
Duration: 12 Months, 05/14/2018 – 05/13/2019

36. Project Title: *Load Rating of Existing Continuous Stringers on Louisiana's Bridges*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $137,781
Duration: 33 Months, 06/01/2018 – 03/01/2021

37. Project Title: *Overheight Impact Avoidance and Incident Detection System*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $239,709
Duration: 41 Months, 07/01/2016 – 12/31/2019

38. Project Title: *Live Load Rating of Cast-in-Place Concrete Box Culverts in Louisiana*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $264,484
Duration: 15 Months, 05/16/2016 – 08/16/2017

39. Project Title: *Retrofit of Existing Statewide Louisiana Safety Walk Bridge Barrier Railing Systems*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $578,912

Duration: 61 Months, 07/01/2016 – 08/31/2021

40. Project Title: *Rehabilitation of Deteriorated Timber Piles using Fiber Reinforced Polymer (FRP) Composites*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $233,069
Duration: 67 Months, 11/02/2015 – 06/30/2021

41. Project Title: *Development of Wave and Surge Atlas for the Design and Protection of Coastal Bridges in South Louisiana Phase II*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $109,762
Duration: 15 Months, 02/12/2015 – 05/11/2016

42. Project Title: *Evaluating Louisiana New Continuity Detail for Girder Bridges*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $179,991
Duration: 64 Months, 04/21/2014 – 08/31/2019

43. Project Title: *I-10 Girder Repair Using Post-Tensioned Steel Rods and Carbon Fiber Composite Cables (CFCC)*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $60,000
Duration: 42 Months, 03/18/2013 – 09/13/2016

44. Project Title: *Live Load Monitoring of the I-10 Twin Span Bridge*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $172,209
Duration: 58 Months, 08/04/2014 – 08/03/2017

45. Project Title: *Developing Prestressed Girder Transportation Guidelines*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $211,919
Duration: 58 Months, 05/02/2011 – 03/15/2016

46. Project Title: *Influence of Internal Curing on Concrete's Permeability in Simulated Field Conditions*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $205,097
Duration: 36 Months, 01/17/2022 – 01/16/2025

47. Project Title: *Evaluation of the Miniature Concrete Prism Test (MCPT) for use in LADOTD*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $232,603
Duration: 57 Months, 07/01/2019 – 07/31/2024

48. Project Title: *Feasibility and Advantages of Accepting Concrete Other Than 28 Days*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $16,557
Duration: 12 Months, 07/01/2019 – 10/30/2020

49. Project Title: *Using the Portable XRF to identify/Verify Field Material Properties*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $120,969
Duration: 49 Months, 07/01/2019 – 11/30/2023

50. Project Title: *Influence of Internal Curing on measured resistivity*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $83,113
Duration: 23 Months, 07/01/2017 – 03/15/2020

51. Project Title: *Effect of Clay Content on Alkali-Carbonate Reactive (ACR) Dolomitic Limestone*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $467,176
Duration: 54 Months, 07/01/2016 – 05/31/2021

52. Project Title: *Reliable Early Opening Strength for Concrete Pavements and Patch Work*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $40,894
Duration: 12 Months, 06/01/2016 – 05/31/2017

53. Project Title: *Implementation of Concrete Maturity*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $90,592
Duration: 17 Months, 10/01/2014 – 04/30/2016

54. Project Title: *Evaluation of Dowel Bar Alignment and Effect on Long Term Performance of Jointed Concrete Pavements*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $173,960
Duration: 54 Months, 05/01/2013 – 12/30/2017

55. Project Title: *Evaluation of MIT-SCAN-T2 for Thickness Quality Control for PCC and HMA Pavements*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $58,271
Duration: 44 Months, 10/01/2012 – 09/30/2016

56. Project Title: *Evaluation of Portland Cement Concrete with Internal Curing Capabilities*

Role: Administrator
Funding Source/Amount: FHWA/LADOTD -- $149,011
Duration: 49 Months, 05/01/2012 – 06/30/2016

57. Project Title: *Design and Analysis Procedures for Asphalt Mixtures Containing High-RAP Contents and/or RAS*
Role: Administrator
Funding Source/Amount: FHWA/LADOTD Pooled Fund -- $506,812
Duration: 59 Months, 06/01/2014 – 10/31/2019

58. Project Title: *Evaluation of Non-SBS modified binders using the Multiple Stress Creep Recovery Test*
Role: Principal Investigator
Funding Source/Amount: FHWA/LADOTD -- $85,797
Duration: 15 Months, 09/30/2015 – 12/31/2016

59. Project Title: *Evaluation of Crumb Rubber Modification of Louisiana Mixtures*
Role: Principal Investigator
Funding Source/Amount: FHWA/LADOTD -- $347,274
Duration: 24 Months, 04/15/2015 - 04/14/2017

60. Project Title: *Testing and Analysis of LWT and SCB Properties of Asphalt Concrete Mixtures*
Role: Principal Investigator
Funding Source/Amount: FHWA/LADOTD -- $263,975
Duration: 34 Months, 08/31/2011 - 06/30/2014

61. Project Title: *Establishing the L. H. Bossier Asphalt Laboratory in the Civil and Environmental Engineering Department*
Principal Investigator: Louay N. Mohammad
Role: Assistant Investigator
Funding Source/Amount: Diamond B. Construction Co., L.L.C. $372,000
Duration: 24 Months, 9/1/2009 - 8/31/2011

62. Project Title: *Field versus Laboratory Volumetrics and Mechanical Properties*
Principal Investigator: Louay N. Mohammad
Role: Research Engineer
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) $600,000
Duration: 8/1/2009 -6/30/2015

63. Project Title: *Laboratory and Field Evaluation of the Performance of HMA Mixtures containing Thiopave additives*
Principal Investigator: Louay N. Mohammad
Role: Assistant Investigator

Funding Source/Amount: Shell USA $125,000
Duration: 12 Months, 6/1/2009 - 5/30/2010

TEACHING EXPERIENCE

Louisiana State University, Baton Rouge, Louisiana 2009-Present

Course Number	Course Title	Times Taught	Period
CE 3700	Engineering Materials Lab	27	Spring 13 – Present
CE 4670	Fundamentals of Pavement Design	6	Spring 19 – Present
CE 4650	Introduction to Asphalt Mixture Design – Guest Lecturer	8	Spring 15 – Present

GRADUATE STUDENT COMMITTEES

A. MS Theses

Committee Member

1. Mahesh Duvvuru, 2024
2. Patrick Icenogle, 2019
3. Ramendra Das, December 2017

B. Ph.D. Dissertations

Committee Member

1. Anas AbuAlia, Expected May 2025
2. Ya Ma, August 2024
3. Ibrahim Elnaml, December 2024

PUBLICATIONS

Summary of Dr. Cooper's publications

Category	Quantity
Refereed Journals	94
Refereed Proceedings Papers	8
Technical Reports	6

Citation Indices	All	Since 2019
Citations	1264	956
h-index	18	16
i10-index	27	25
Interest Score	1034	(Research Gate)

Published/Accepted for Publication in Referred Journals (selected)

1. Elnaml, I., Mohammad, L. N., Baumgardner, G. L., Cooper, III, S., and Cooper, Jr, S., "Sustainability of Asphalt Mixtures Containing 50% RAP and Recycling Agents." Recycling 9 (85), https://doi.org/10.3390/recycling9050085, 2024, pp. 1-22.

2. Ma, Y., Mohammad, L. N., Liu, J., Asghar, M., Elnaml, I., Cooper, III, S., and Cooper, Jr, S., "Development of a Cyclic Semi-Circular Bending Test Protocol to Characterize Fatigue Cracking of Asphalt Mixture at Intermediate Temperature." Construction and Building Materials, Vol 433 137669, 2024, pp. 1-11.

3. Abualia, A., Akentuna, M., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Improving Asphalt Binder Durability Using Sustainable Materials: A Rheological and Chemical Analysis of Polymer-, Rubber-, and Epoxy-Modified Asphalt Binders, Sustainability 16(13), 5379, 2024, pp.1-19

4. Abualia, A., Liu, J., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Effect of High Polymer, Crumb Rubber, and Epoxy Modified Asphalt Binders on Laboratory Performance of OGFC Mixtures" The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, In-press, 2024.

5. Elnaml, I., Liu, J., Mohammad, L. N., Dylla, H., Cooper, III, S., and Cooper, Jr, S., "Recycling Waste Plastics in Asphalt Mixture: Engineering Performance and Environmental Assessment ." Journal of Cleaner Production, Vol. 453, 142180, 2024, pp. 1-13.

6. Pant, S., Akentuna, M., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Field Performance Validation of the Louisiana Balanced Asphalt Mix Design Framework." Construction and Building Materials, Vol 428 136251, 2024, pp. 1-8.

7. Pant, S., Akentuna, M., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Long-Term Performance of Flexible Pavements Containing Crumb Rubber Modified Asphalt in Louisiana." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, https://doi.org/10.1177/03611981241239663, 2024.

8. Elnaml, I., Mohammad, L. N., Baumgardner, G. L., Liu, J., Cooper, III, S., and Cooper, Jr, S., "Influence of Petroleum-Based and Bio-Derived Recycling Agents on High-RAP Asphalt Mixtures Performance." Buildings, 14, 567, https://doi.org/10.3390/buildings14030567, 2024.

9. Elnaml, I., Liu, J., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Use of the Iron Chloride Type of Lewis Acid Catalyst in High Reclaimed Asphalt Pavement Content Asphalt Mixtures." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, Vol. 2678 (2), 2024, pp. 430-440.

10. Elnaml, I., Heather, D., Liu, J., Mohammad, L. N., Cooper, III, S., and Cooper, Jr, S., "Incorporating Environmental Impact Analysis into Louisiana's Balanced Asphalt Mixture Design." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, 2023, pp. 1-13.

11. Elnaml, I., Liu, J., Mohammad, L. N., Wasiuddin, N., Cooper, III, S., and Cooper, Jr, S., "Developing Sustainable Asphalt Mixtures Using High-Density Polyethylene Plastic Waste Material." Sustainability 15, No. 13: 9897, 2023, pp.1-15.

12. Ma, Y., Liu, J., Mohammad, L. N., Cooper, III, S., Cooper, Jr, S., and Duvvuru, M., "Use of Random Forest to Predict Intermediate Temperature SCB Jc Parameter of Long-Term Aged Asphalt Mixtures." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, 2023, pp. 1-13.

13. Akentuna, M., Jun, L., Mohammad, L. N., Sachdeva, S., Cooper III, S., and Cooper Jr, S., "Moisture Susceptibility of Asphalt Mixtures: Conditioning and Testing Protocols." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, 2023, pp. 1-11.

14. P. Barghabany, J. Zhang, L.N. Mohammad, S.B. Cooper III, S.B. Cooper Jr, "Effect of Laboratory Aging Levels on Asphalt Binder Chemical/Rheological Properties and Fracture Resistance of Asphalt Mixtures" Journal of Materials in Civil Engineering 34 (3), 04021491. 2022.

15. H. Abohamer, M.A. Elseifi, C. Mayeux, S.B. Cooper III, S. Cooper Jr, "Laboratory Evaluation of Warm-Mix Asphalt Open-Graded Friction Courses" Transportation Research Record, 03611981221090239. 2022.

16. P. Barghabany, J. Zhang, L.N. Mohammad, S.B. Cooper III, S.B. Cooper Jr, "Chemical and Rheological Characterization of Asphalt Binders: A Comparison of Asphalt Binder Aging and Asphalt Mixture Aging" Transportation Research Record, 03611981211067977. 2022.

17. M. Akentuna, L.N. Mohammad, S. Sachdeva, S.B. Cooper III, S.B. Cooper Jr, "Effectiveness of Loaded Wheel Tracking Test to Ascertain Moisture Susceptibility of Asphalt Mixtures" Transportation Research Record 2676 (1), 421-434. 2022

18. P. Barghabany, J. Zhang, L.N. Mohammad, S.B. Cooper III, S.B. Cooper Jr, "Novel Model to Predict Critical Strain Energy Release Rate in Semi-Circular Bend Test as Fracture Parameter for Asphalt Mixtures Using an Artificial Neural Network Approach" Transportation Research Record 2676 (1), 388-400. 2022.

19. M.N. Rahman, M.T.A. Sarkar, M.A. Elseifi, C. Mayeux, S.B. Cooper III, K. Free. "Short-term field performance and cost-effectiveness of crumb-rubber modified asphalt emulsion in chip seal applications" Transportation Research Record 2675 (9), 1049-1062. 2021.

20. Effects of emulsion types, application rates, and crumb rubber on the laboratory performance of chip seal MN Rahman, MTA Sarkar, MA Elseifi, C Mayeux, SB Cooper III Construction and Building Materials 260, 119787. 2020.

21. Relationships among chemistry, rheology, and fracture/fatigue performance of recovered asphalt binders and asphalt mixtures containing reclaimed asphalt pavement P Barghabany, W Cao, LN Mohammad, SB Cooper III, SB Cooper Jr Transportation Research Record 2674 (10), 927-938. 2020.

22. Improving Durability of Asphalt Pavements in Louisiana through Increased In-Place Field Density M Akentuna, LN Mohammad, M Kim, SB Cooper III, SB Cooper Jr Transportation Research Record 2674 (10), 806-816. 2020.

23. Sarkar, Md. T. A.; Rahman, Md. N.; Elseifi, M. A.; Mayeux, C.; Cooper III, S., "Rheological and Molecular Characterizations of Tire Rubber Modified Asphalt Emulsion". Transportation Research Record Journal of the Transportation Research Board 2674(3):036119812090887. 2020.

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45. Hassan, M., Mohammad, L. N., Dylla, H., Asadi, S., and Cooper, S., III, "Laboratory and Field Evaluation of Sustainable Photocatalytic Asphalt Pavements." Journal of the Association of Asphalt Paving Technologist, Vol. 81, 2012, pp. 1-23.

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53. Hassan, M., Mohammad L. N., Cooper S., and Dylla, H., "Evaluation of Nano Titanium Dioxide Additive on Asphalt Binder Aging Properties." Journal of the Transportation Research Record, No. 2207, 2011, pp. 11-15.

54. Cooper, S., Mohammad, L. N., and Elseifi, M., "Laboratory Performance Characteristics of Sulfur-Modified Warm-Mix Asphalt." ASCE Journal of Materials in Civil Engineering, 2011, Vol. 23, No. 9, pp. 1338-1345.

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Refereed Proceedings Papers

1. Mohammad, L. N., Cooper, III. S., Challa, H., "Laboratory Performance Asphalt Mixtures Containing Bio-Binders." Proceedings of the 2013 Airfield & Highway Pavement Conference, Los Angeles, California, June 9-12, 2013. pp.1-10.

2. Mohammad, L. N., Hassan, M., Cooper, III. S., Asadi, S., "Laboratory Evaluation of Asphaltic Mixtures Containing Titanium Dioxide Photocatalyst." Proceedings of the 5th EuroAsphalt and EuroBitumon Conference, Istanbul, Turkey, June 13-15, 2012. pp.1-8.

3. Mohammad, L. N., M. A. Elseifi, and S. B. Cooper. "The use of sustainable pavement materials in asphalt mixtures." International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, 7th, 2012, Auckland, New Zealand. No. 00159. 2012.

4. Hassan, M., Mohammad, L. N., Dylla, H., Asadi, S., & Cooper III, S. "Laboratory and Field Evaluation of Sustainable Photocatalytic Asphalt Pavements. Asphalt Paving Technology-Proceedings Association of Asphalt Technologists, 81, 1, (2012).

5. Mohammad, L. N., Elseifi, M., Cooper S., "Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies." CD proceedings of the 1st Conference of

Transportation Research Group of India, Bangalore, India, December 7-10, 2011, Paper 165. pp.1-8.

6. Hassan, M., Louay N. Mohammad, Heather Dylla, S. B. Cooper, and S. Asadi. "A Breakthrough Concept in the Preparation of Highly-Sustainable Photocatalytic Warm Asphalt Mixtures." In NSF Engineering Research and Innovation Conference, Atlanta, Georgia. 2011.

7. Mohammad, L. N., Elseifi, M., and Cooper, S., "Laboratory Evaluation of Sulfur-Extended Asphalt Mixture," Proceeding of the 2nd International Conference on Construction in Developing Countries, Cairo, Egypt, August 3-5, 2010, pp. 677-684.

8. Hassan, M., Mohammad, L. N., Cooper, S., Dylla, H . "Effect of Ultrafine/Nano Titanium Dioxide on the Performance Grade of Asphalt Binders". Proceedings of the 2nd International Conference on Construction in Developing Countries, Cairo, Egypt, August 3-5, 2010.

Technical Reports

1. Mohammad, L.N., Cooper, III, S., and Elseifi, M., "Mechanistic Evaluation of Asphalt Mixtures Containing Thiopave Additives." Louisiana Transportation Research Center, Report No. FHWA/LA.12/550, Baton Rouge, Louisiana, 2016.

2. Mohammad, L. N., M. A. Elseifi, S. B. Cooper, III, C. S Hughes, J. W. Button, and E. L. Dukatz, Jr., "Comparing the Volumetric and Mechanical Properties of Laboratory and Field Specimens of Asphalt Concrete." National Cooperative Highway Research Program, Report No. 818. Transportation Research Board, Washington, D.C., 2016.

3. Cooper, S., Kabir, Md., King, B., "Testing and Analysis of LWT and SCB Properties of Asphaltic Concrete Mixtures." LTRC Report No. 536. In press.

4. NCHRP Project 9-48 "Field versus Laboratory Volumetrics and Mechanical Properties". Phase Ia interim report. December 2010.

5. NCHRP Project 9-48 "Field versus Laboratory Volumetrics and Mechanical Properties". Phase I interim report. April 2010.

6. NCHRP Project 9-48 "Field versus Laboratory Volumetrics and Mechanical Properties". Quarterly Progress Report. No. 1 – No. 24. September 30, 2009 – September 30, 2015. (**24 Reports**).

PRESENTATIONS

Summary of Dr. Cooper's Presentations

Category	Quantity
Technical Presentations – Invited Speaker	25
Technical Presentations – Other	21

Technical Presentations – Invited Speaker (selected)

1. Cooper, S. "LTRC Asphalt Research Update". 57Th Louisiana Asphalt Pavement Association Annual Meeting. Point Clear, Al. June 1 – June 5, 2016.

2. Cooper, S. "LADOTD Balanced Mixture Design". 61st National Asphalt Pavement Association Annual Meeting. Palm Springs, Ca. February 6-10, 2016.

3. Cooper, S. "LADOTD Balanced Mixture Design". 2015 Southeastern Asphalt User/Producer Group Annual Meeting. Williamsburg, Va. November 16-19, 2015.

4. Cooper, S. "LTRC Project 15-1B: Evaluation on Crumb Rubber Modification of Louisiana Mixtures". 56Th Louisiana Asphalt Pavement Association Annual Meeting. Point Clear, Al. May 27 - 31, 2015.

5. Cooper, S. "Semi-Circular Bend: Sample Preparation, Testing, and Analysis". 55Th Louisiana Asphalt Pavement Association Annual Meeting. Point Clear, Al. May 28 - June 1, 2014.

6. Cooper, S. "Implementation of Semi-Circular Bending Test". 2013 Southeastern Asphalt User/Producer Group Annual Meeting. Baton Rouge, La. November 11-14, 2013.

7. Cooper, S. "Testing and Analysis of LWT and SCB Properties of Asphaltic Concrete Mixtures 2013 Pilot Program Update". 54th Louisiana Asphalt Pavement Association Annual Meeting. Point Clear, Al. May 29 - June 2, 2013.

8. Cooper, S. "Testing and Analysis of LWT and SCB Properties of Asphaltic Concrete Mixtures". 2013 Louisiana Transportation Research Conference. Baton Rouge, La. February 18-20, 2013.

9. Cooper, S. "Laboratory Evaluation of Sustainable Pavement Materials in Asphalt Mixtures". 53rd Annual International Highway Engineering Exchange Program Conference, Winnipeg, Manitoba, Canada, September 11-15, 2011.

Technical Presentations - Other

1. Cooper, S., Mohammad, L. N., Elseifi, M., Raghavendra, A., "Effects of Specimen Type on Laboratory-Measured Dynamic Modulus of Asphalt Mixtures and Predicted Pavement

Performance." Presented at the 94th TRB Annual Meeting, Washington D.C., January 11-15, 2015.

2. Cooper, III, S., Mohammad, L. N., Elseifi, M., Raghavendra, A., "Effects of Specimen Orientation on the Laboratory Measured Dynamic Modulus and Predicted Performance of Asphalt Mixtures." Presented at the 94th TRB Annual Meeting, Washington D.C., January 11-15, 2015.

3. Mohammad, L. N., Elseifi, M., Cooper, III. S, Challa, H., Naidoo, P., "Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies." Poster Presentation at the 92nd Annual Meeting of the Transportation Research Board, Washington D.C., January 13-17, 2013

4. Mohammad, L. N., Cooper, III. S., Challa, H., "Laboratory Performance Asphalt Mixtures Containing Bio-Binders.," Presented at the 2013 Airfield and Highway Pavement Conference, Los Angeles, California, June 11, 2013.

5. Dylla, H., Asadi, S., Hassan, M., Mohammad, L. N., "Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies." Presentation at the AAPT 2013 Annual Meeting, Denver, CO, April 7-10, 2013

6. Mohammad, L. N., Hassan M., Cooper, III. S., Asadi, S., "Laboratory Evaluation of Asphaltic Mixtures Containing Titanium Dioxide Photocatalyst." Poster Presentation at the Eurasphalt & Eurobitume Congress 2012, Istanbul, Turkey, June 13-15, 2012

7. Hassan, M., Mohammad, L. N., Dylla, H., Asadi, S., Cooper, III. S., "Laboratory and Field Evaluation of Sustainable Photocatalytic Asphalt Pavements." Presented at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012

8. Elseifi, M., Mohammad, L. N., Ying, H., Cooper, III. S., "Modeling and Evaluation of the Cracking Resistance of Asphalt Mixtures Using the Semi-Circular Bending Test at Intermediate Temperatures." Presented at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.

9. Vallabhu, B., Cooper, III. S., Mohammad, L. N., "Fundamental Characterization of Asphalt Mixtures: Warm Mix Asphalt Technologies in Flexible Pavement Systems." Poster Presentation at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.

10. Cooper, III. S., Challa, H., Mohammad, L. N., "Fundamental Characterization of Asphalt Mixtures: Green Asphalt Technologies in Flexible Pavement Systems." Poster Presentation at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.

11. Mohammad, L. N., Elseifi, M., Cooper, III. S., Raghavendra, A., "Effects of Volumetric and Mechanistic Test Variability on Predicted Performance of Asphalt Pavements Using the MEPDG." Presented at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.

12. Mohammad, L. N., Hassan, M., Cooper, III. S., Dylla, H., "Laboratory Evaluation of Asphaltic Mixtures Containing Titanium Dioxide Photocatalyst." Poster Presentation at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.

13. Mohammad, L. N., Elseifi, M., Cooper, S., "Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies." Presented at 1st Conference of Transportation Research Group of India, Bangalore, India, December 7-10, 2011.

14. Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies. 86th Annual meeting of the Association of Asphalt Paving Technologist, Tampa, Florida, March 27-30, 2011.
15. Performance and Cost Effectiveness of Sustainable Technologies in Flexible Pavements using the Mechanistic-Empirical Design Guide. Accepted for presentation at 90th Annual Meeting of the Transportation Research Board, Washington D.C., January 23-27, 2011.

16. Hassan, M., Mohammad, L. N., Cooper, S., Dylla, H., "Evaluation of Nano Titanium Dioxide Additive on Asphalt Binder Aging Properties." Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.

17. Cooper, S., Elseifi, M., and Mohammad, L. N., "MEPDG Sensitivity Analysis of Louisiana Hot-Mix Asphalt Mixtures Utilizing a Statistically Based Factorial Design."Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.

18. Cooper, S., Elseifi, M., Mohammad, L. N., and Hassan, M., "Performance and Cost-Effectiveness of Sustainable Technologies in Flexible Pavements Using Mechanistic-Empirical Design Guide." Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.

19. A Breakthrough Concept in the Preparation of Highly-Sustainable Photocatalytic Warm Asphalt Mixtures. Accepted for presentation at the NSF Engineering Research and Innovation Conference, Atlanta, Georgia, January 5-7, 2011.

20. Mohammad, L. N., Elseifi, M, and Cooper, S., "Laboratory Evaluation of Sulfur-Extended Warm-Mix Asphalt." Presented at the 2nd International Conference on Construction in Developing Countries, Cairo, Egypt, August 3-5, 2010.

21. Mohammad, L. N., and Cooper, S., "Sustainable Materials for Pavement Infrastructures." Presented at the 51st Louisiana Asphalt Pavement Association Convention, Point Clear, Alabama, June 2-6, 2010.

WORKSHOPS AND SHORT COURSES ATTENDED

- Tack Coat Best Practices Workshop. May 20, 2015. Baton Rouge, Louisiana. Sponsored by: Federal Highway Administration and the Asphalt Institute.

- Semi Circular Bend (SCB) Test Training Workshop. April 16, 2015. Baton Rouge, Louisiana. Sponsored by: LADOTD.

- Dynamic Shear Rheometer Workshop. February 27, 2014. Baton Rouge, Louisiana. Sponsored by: LADOTD and Anto Paar USA.

- Seminar on "Principles of Quality Hot Mix Asphalt Pavement Construction." February 15, 2012. Baton Rouge, Louisiana. Sponsored by: FHWA and LADOTD.