

LOUAY N. MOHAMMAD, PH.D., P.E., F. ASCE
Professor of Civil & Environmental Engineering
Holder of the Irma-Louis Rush Stewart Distinguished Professorship
Department of Civil and Environmental Engineering
Director, Sustainable and Resilient Pavement Materials and Technologies Center
Louisiana Transportation Research Center
Louisiana State University
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PERSONAL DATA

Country of Citizenship: U.S.A.
Marital Status: Married with three children

RESEARCH & TEACHING INTERESTS

Highway Construction Materials, Asphalt Cement Rheology, Asphalt Mixture Design and Analysis, Pavement Design and Analysis, Accelerated Pavement Testing, Advanced Materials Characterization and Modeling, Pavement Interface systems and Testing, and Infrastructure Sustainability and Resilience

EDUCATION

B.S. in Civil Engineering, Louisiana State University, 1980
M.S. in Civil Engineering, Louisiana State University, 1982
Ph.D. in Civil Engineering, Louisiana State University, 1989

ACADEMIC EXPERIENCE

Professor
Irma-Louise Rush Stewart Endowed Professor (January 2007 - Present)
Coordinator, Transportation Engineering Faculty Group (March 2003 - Present)
Department of Civil and Environmental Engineering
Louisiana State University, Baton Rouge, Louisiana

Founder and Director, Sustainable and Resilient Pavement Materials and Technologies Center
Louisiana Transportation Research Center, Louisiana State University, Baton Rouge, Louisiana

Founder and Director, Engineering Materials Characterization and Research Facility
Louisiana Transportation Research Center, Louisiana State University

Associate Professor (tenured July 1, 2004)
Department of Civil and Environmental Engineering
Louisiana State University, Baton Rouge, Louisiana

Research Associate Professor of Civil and Environmental Engineering
Department of Civil and Environmental Engineering
Louisiana State University, Baton Rouge, Louisiana

Research Assistant Professor
Department of Civil and Environmental Engineering
Manager, Engineering Materials Characterization and Research Facility
Louisiana Transportation Research Center, Louisiana State University

- Engineering, Louisiana State University.
- # Invited Panelist, Florida International University/Massachusetts Institute of Technology Infrastructure Sustainability Summit, October 29, 2013, Miami, Florida
 - # Paper titled "Accelerated Loading Evaluation of Foamed Asphalt Treated RAP Layers in Pavement Performance" selected as the Best Paper Award, 8th International Conference on Road and Airfield Pavement Technology, July 14-18, 2013, Taipei, Taiwan
 - # Paper titled "Use of Sweep Test for Emulsion and Hot-Asphalt Chip Seals: Laboratory and Field Evaluation" selected as the runner up for the 2012 Transportation Research Board Asphalt Materials Section Best Poster Award, January 13- 17, 2013, Washington, D.C.
 - # 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.
 - # Selected to serve as a member of the Rubberized Asphalt Foundation Advisory Board, March 2012 - Present.
 - # Recipient of the 2012 Asphalt Rubber Ambassador Award by the Rubber Pavement Association, Asphalt Rubber Conference, October 23 - 26, 2012, Munich, Germany.
 - # Selected to serve on the National Academies of Science, Engineering, Medicine Transportation Research Board Panel 44-07 on "Thin Asphalt Concrete Overlays," September 2012-June 2014.
 - # Paper titled "Estimating Optimum Compaction Level for Dense-Graded Hot-Mix Asphalt Mixtures was selected as the *Distinguished Research Paper* in the Journal of Engineering Research for 2010-2011.
 - # Appointed to the Federal Highway Administration Expert Task Group (ETG) on Asphalt Mixtures and Construction, August 2010 - December 2018.
 - # Recipient of the 2009 Asphalt Rubber Ambassador Award by the Rubber Pavement Association.
 - # Paper titled "Interface Shear Strength Characteristics of Emulsified Tack Coats" selected as the runner up for the 2009 Association of Asphalt Paving Technologists Emmons Award.
 - # Mr. Patel Nachiketa, my graduate student, won first place for his presentation titled "Interface Shear Strength Characteristics of Emulsified Tack Coats" at the 2009 Area 2 Highway Engineering Exchange Program (HEEP) conference held in Baton Rouge, June 7-10, 2009. Area 2 includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia.
 - # Paper titled "Effect of Reinforcement on Resilient and Permanent Deformations of Base Course Material" nominated for the 2007 Transportation Research Board K. B. Woods Award. One to two percent of the over six hundred design and construction papers is nominated for this award.
 - # Recipient of the 2005 Outstanding Faculty Achievement Award, Department of Civil and Environmental Engineering, Louisiana State University.
 - # Selected to serve on the National Academy of Science National Cooperative Highway Research Program Panel for Project 9-39 on Development of Procedures for Determining the Mixing and Compaction Temperatures of Superpave Asphalt Binders in Hot Mix Asphalt, July 2004 - 2010.

- # Kaiser Aluminum and Chemical Company Fellow for the academic year 1985 - 1986.
- # Awarded teaching assistantship and tuition waiver for graduate studies by the Department of Civil Engineering at Louisiana State University.

PROFESSIONAL QUALIFICATIONS

Registered Professional Engineer, License No. 16010 - State of Wyoming.

PROFESSIONAL AFFILIATIONS

- # American Society of Civil Engineers
 - Trustee, ASCE Foundation Council of Trustees, Region 5, Aug 2020-Dec 2023
 - Elected Fellow, January 2019.
 - Journal of Materials in Civil Engineering
 - Editor-in-Chief, October 2024 - Present
 - Bituminous and Flexible Pavement Section Editor, February 2014 - Sept 2024
 - Associate Editor, October 2001 - February 2014
 - Construction Institute, Bituminous Materials Committee
 - Past Chairman, October 1999 - October 2001
 - Chairman, October 1997 - October 1999
 - Vice Chairman, October 1995 - September 1997
 - Secretary, October 1993 - September 1995
 - Technical Representative, October 1991 - September 1993
 - Baton Rouge Chapter
 - Chairman, Materials Engineering Group, 1992-1996.
 - Director at Large, October 1995 - September 1997
 - Louisiana Chapter of T&DI

- Subcommittee D04.44 on Rheological Tests,
Member
- Subcommittee D04.45 on Specifications for Modified Asphalt,
Member
- Subcommittee D04.46 on Durability & Distillation Tests,
Member
- Subcommittee D04.99,
Member December 2014 - Present
- # Association of Asphalt Paving Technologist (AAPT), Member
Emmons Award Committee, Member, March 2009 - March 2011
Publication Committee, Member, March 2016 - 2020
- # National Research Council, Transportation Research Board
AFK 00 Asphalt Materials Section,
Member, 2007 - 2013
AFK 10 Standing Committee on Critical Issues and Emerging Technologies in
Asphalt,
Member, 2013 - 2016
AFK 20 Standing Committee on Characteristics of Asphalt Materials,
Friend, 2014 - Present
AFK 30 Standing Committee on Non-Binder Components of Asphalt Mixtures,
Member, April 2013 - April 2019
AFK 40 Standing Committee on Surface Requirements of Asphalt Mixtures,
Emeritus Member, January 1, 2020 - Present
Member, 1999 - 2013
Chair, April 2007 - April 2013
Member, April 2017 - April 2020
AFK 50 Standing Committee on Structural Requirements of Asphalt Mixtures
Member, 1994- 2000; 2003 - 2012, April 2015 - April 2021.
Committee AHD 20 on Pavement Maintenance Committee, Member, 2003-2012
Committee AFD 20 on Pavement Monitoring, Evaluation and Data Storage, Member,
1994 - 2001
Committee AFP 30 on Soil and Rock Properties, Friend of the Committee
Data Analysis Working Group (DAWG) Steering Committee, Member
July 1, 2012 - June 30, 2015
- # Louisiana DOTD Asphaltic Concrete Specification Committee, Member
- # Louisiana DOTD Asphaltic Concrete Specification Committee Section 504 on Asphalt Tack
Coat Materials: Chair, 2010-present
- # Louisiana DOTD Committee on Long-Range Planning for Construction and Materials
Training, Member
- # Louisiana DOTD Superpave Implementation, Member
Subcommittee on Training of Superpave Technology, Chair
- # Management Committee of the Asphalt Pavement Analyzer Users Group, Member,
September 1999 - 2010
- # Southeastern Asphalt User Producer Group, Board Member, Academic Rep., 2003- 2006

- # Research Advisory Group of the National Stone, Sand, and Gravel Association, Board Member
- # Chi Epsilon, Civil Engineering Department Level Honor Society
- # Tau Beta Pi, College of Engineering Level Honor Society
- # Phi Kappa Phi, University Level Honor Society
 - LSU Chapter President, August 2020 - Present
 - Dissertation Fellowship Committee, Member, 2017

SERVICE

University

- # LSU International Travel Oversight Committee
 - Member, 2011-Present
- # LSU Distinguished Dissertation Committee,
 - Member, 2006, 2007, 2009; Chair, 2010
- # LSU Faculty Senate Executive Nominating Committee
 - Chair: 2023
- # LSU Faculty Senate, Budget and Planning Advisory Committee, 2013-2015
 - Chair: 2013, 2014
- # LSU Faculty Senate, Elected Member representing the College of Engineering, 2010-2012, 2014-2017, 2021-2023
- # LSU Faculty Senate, Executive Committee, Senate Parliamentarian
 - 2011 - 2017
- # LSU Faculty Senate, International Education Committee, Member, 2004-2008
- # LSU Faculty Senate, Committee on Committees, member, 2003-2012
 - Chair: 2005 - 2012
- # LSU Faculty Senate, Chancellor Alumni Scholarship Committee,
 - Member, 2001 - 2004.
- # LSU Faculty Senate, Student Aid and Scholarships Executive Director Search Committee, member, April 2003
- # LSU Faculty Senate, Student Aid and Scholarships Director Search Committee, member, April 2002.
- # LSU Faculty Senate, Student Aid and Scholarships Committee,
 - Member, September 2000 - May 2001.
 - Chair, September 2001 - May 2003.

College of Engineering

- # College Level Professorships Selection Committee, member
 - 2011, 2012, 2013
- # College Policy Committee, Member, 8/06 - 5/08, 8/09 - 5/11
- # Promotion & Tenure Committee, Member, 2006
- # Selection of Faculty, Staff and Student Awards Committee, Member, 2004
- # Fundamental of Engineering Examination,
 - Course Review Coordinator, May 2003 - Present
- # LSU College of Engineering Tower of Excellence Committee,

Computer Analyst Search Committee, Member, 2006.

- 2019, Jinan, China.
- # Member, Scientific Committee, 7th International Conference Bituminous Mixtures and Pavements, June 12-14, 2019, Thessaloniki, Greece
 - # Member, Special Interest Groups 11 on Highway Design and Materials, 15th World Conference on Transport Research, May 26-31, 2019, Bombay, Mumbai, India.
 - # Technical Session Chair, International Conference on Civil and Environmental Technologies, April 23-24, 2019, University of Kufa, Kufa, Iraq.
 - # Member, Organizing Committee, LTRC Seminar Series: Durable Asphalt Pavements, March 12, 2019, Baton Rouge, Louisiana.
 - # Session Chair, Third International Conference on Transportation Infrastructure and Materials: Smart and Sustainable Transportation Infrastructure, June 1-4, 2018, Tianjin, China.
 - # Member, International Advisory Committee and Scientific Committee, Third International Conference on Transportation Infrastructure and Materials: Smart and Sustainable Transportation Infrastructure, June 1-4, 2018, Hebei University of Technology, Tianjin, China.
 - # Member, Advisory Committee, 10th International Conference on Road and Airfield Pavement Technology, August 8-10, 2017, Hong Kong.
 - # Session Chair, Laboratory to Field, 10th International Conference on Road and Airfield Pavement Technology, August 8-10, 2017, Hong Kong.
 - # Member, Organizing Committee, International Conference on Maintenance and Rehabilitation of Constructed Infrastructure Facilities, July 19-21, Seoul, Korea.
 - # Sessions Chair, Sustainable Pavement Engineering I and II, GeoMEast 2017 international conference , July 15-19, 2017, Sharm El-Sheikh, Egypt.
 - # Member, Advisory Committee, GeoMEast 2017 international conference , July 15-19, 2017, Sharm El-Sheikh, Egypt.
 - # Member, International Advisory Committee and Scientific Committee, 2017 International Conference on Transportation Infrastructure and Materials, June 9-12, 2017, Qingdao University of Technology, Qingdao, China
 - # Member, Scientific Committee, the Sustainable Built Environment Conference SBE16 Cairo , November 29-December 1, 2016, Cairo, Egypt.
 - # Chair Technical Session, "Asphalt Concrete & Recycling," 2016 International Conference on Transportation Infrastructure and Materials, July 16-18, 2016, Chang'an University, Xi'an, China
 - # Member, Executive Committee, 2016 International Conference on Transportation Infrastructure and Materials, July 16-18, 2016, Chang'an University, Xi'an, China
 - # Member, International Scientific Committee, 8th RILEM conference on Mechanism of

‘Properties of Asphalt Mixtures and Binders for Improved Performance,’ December 7-10, 2011, Bangalore, India.

Chaired technical session, 5th International Conference ‘Bituminous Mixtures and Pavements,’ June 2-3, 2011, Thessaloniki, Greece.

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- Mixtures," 87th Annual Meeting of the Transportation Research Board, January 2008, Washington, D.C.
- # Member, International Scientific Committee, The Fifth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, August 8-10, 2007, Park City, Utah, USA.
- # Member, Scientific Committee, 4th International Conference Bituminous Mixtures and Pavements, April 19-20, 2007, Thessalonika, Greece.
- # Chaired technical session, "Assessing Moisture Damage in Hot-Mix Asphalt," 86th Annual Meeting of the Transportation Research Board, January 2007, Washington, D.C.
- # Co-Organizer, Technical Program, Louisiana Asphalt Technology Conference, February 23-24, 2005, Shreveport, Louisiana.
- # Chair, Technical Session, "Asphalt Specifications and Mixture Design Issues," Louisiana Asphalt Technology Conference, February 23-24, 2005, Shreveport, Louisiana
- # Chair, Technical Session VIII, 2005 International Symposium on Pavement Recycling, March 14-16, 2005, São Paulo, Brazil.
- # Member, Scientific Committee, 2005 International Symposium on Pavement Recycling, March 14-16, 2005, São Paulo, Brazil.
- # Chairman, ASTM Symposium on Performance Tests for Hot Mix Asphalt (HMA), including Fundamental and Empirical Procedures, December 9, 2003, Tampa, Florida.
- # President, technical session on "Advanced Trends in Pavement Rehabilitation Design and Preservation," 3rd International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control, July 7-10, 2003, Guimaraes, Portugal.
- # Organized and co-chair, "Pavement Quality Seminar," December 17, 2002, New Orleans, Louisiana.
- # Chair, technical session on "Pavement Design, Construction, and Maintenance," 3rd



Project Title: Implementation of Louisiana BMD framework for QC/QA Specifications
Principal Investigator: Louay Mohammad
Funding Source/Amount: USDOT Federal Highway Administration TPF 5(478) – \$324,886
Duration: 28 months, 12/24 - 5/27

Project Title: Asphalt Research Support Funds
Principal Investigator: Louay Mohammad
Funding Source/Amount: Paragon Technical Services, \$160,000 (\$40/year).
Duration: 4 years, 11/24 - 11/27

Project Title: Sustainability through Development of Life Cycle Information Models for Pavements in Louisiana
Principal Investigator: Louay Mohammad
Funding Source/Amount: USDOT Federal Highway Administration – \$477,000
Duration: 48 months, 10/2023 - 9/2027

Project Title: Development of an Innovative Recycling Agent for the Sustainability and Durability of Asphalt Mixtures
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$249,609
Duration: 40 months, 2/1/2021 - 6/30/2024

Project Title: Development of a Cyclic Semi-Circular Bend Test to Evaluate Asphalt Mixture Crack Propagation Properties at Intermediate Temperature
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$299,944
Duration: 41 months, 1/1/2021 - 6/30/2024

Project Title: Assessment of Long-Term Performance of Louisiana Asphalt Pavements
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$326,936
Duration: 42months, 11/1/2020 - 6/30/2024

Project Title: Development of a Standard Practice for the Design of Durable Open-Graded Friction Course (OGFC) Mixtures with Epoxy Asphalt
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$279,463
Duration: 40 months, 9/1/2020 - 12/30/2023

Project Title: Implementation of Semi-Circular Bend (SCB) Test for QC/QA of Asphalt Mixtures
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$474,347
Duration: 55 months, 5/1/2019 - 12/30/2023

Project Title: Development of a Moisture Sensitivity Test for Asphalt Mixtures
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD –

- Project Title: *Development of Performance Based Specifications for Louisiana Asphalt Mixtures*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD — \$299,433
Duration: 36 Months, 4/1/2011 - 8/31/2014
- Project Title: *Modulus-Based Construction Specification for Compaction of Earthwork and Unbound Aggregate*
Principal Investigator: Soheil Nazarian (University of Texas at El Paso)
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) – \$530,000
Duration: 48 Months, 10/7/2010 - 9/30/2014
- Project Title: *A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt*
Principal Investigator: Mostafa Elseifi
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: NSF – \$163,952
Duration: 24 Months, 10/1/2010 - 12/30/2013
- Project Title: *Establishing the L. H. Bossier Asphalt Laboratory in the Civil and Environmental Engineering Department*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Diamond B. Construction Co., L.L.C. \$372,000
Duration: 24 Months, 9/1/2009 - 8/31/2011
- Project Title: *Field versus Laboratory Volumetrics and Mechanical Properties*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) \$600,000
Duration: 8/1/2009 -12/30/2015
- Project Title: *Laboratory and Field Evaluation of the Performance of HMA mixtures containing Thiopave additives*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Shell USA \$125,000
Duration: 12 Months, 6/1/2009 - 5/30/2010
- Project Title: *Evaluation of Warm Mix Asphalt Technology in Flexible Pavements*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$480,980
Duration: 57 Months, 3/2009 - 12/2013
- Project Title: *Characterization of HMA Mixtures Containing High Recycled Asphalt Pavement Content With Crumb Rubber Additives*
Principal Investigator: Louay N. Mohammad

- Funding Source/Amount: FHWA/LADOTD - \$98,023
Duration: 10 Months, 9/1/2008 -6/30/2009
- Project Title: *Characterization of Louisiana Asphalt Mixtures for the Mechanistic Empirical Pavement Design Guide*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$398,672
Duration: 42 Months, 1/1/2008 -6/30/2011
- Project Title: *Development Of A Design Methodology For Asphalt Treated Base Mixtures*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$264,268
Duration: 24 Months, 1/1/2007 - 12/30/08
- Project Title: *Evaluation of Superpave Mixtures Containing Hydrated Lime*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$331,288
Duration: 18 Months, 4/1/2006 - 9/30/2007
- Project Title: *Optimization of Tack Coat for HMA Placement*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) \$428,000
Duration: 7/1/2005 - 12/30/2011
- Project Title: *Development and Implementation of Digital Specimen and Digital Tester Technique for Performance Characterization of Infrastructure Materials*
- Principal Investigator: Mehmet T. Tumay
Co-Principal Investigator: LinBing and Louay N. Mohammad
Funding Source/Amount: National Science Foundation (NSF) - \$599,783
Duration: 36 Months, 10/15/2004 - 6/15/2007
- Project Title: *Optimization of Asphalt Mixture Design for the Louisiana ALF Test Sections*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$188,285
Duration: 36 Months, 1/1/2004 - 12/30/06
- Project Title: *The Use of DMA to Characterize the Aging of Asphalt Binders*
- Principal Investigator: Ioan I. Negulescu
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$207,924
Duration: 18 Months, 1/1/2004 - 06/30/05

Project Title: *Evaluation of HMAC Longitudinal Joint Construction in Louisiana*
Principal Investigator: Samuel B. Cooper
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$164,735
Duration: 30 Months, 1/1/2004 - 6/30/06

Project Title: *Comparison of the Insitu Strength and Laboratory Mechanistic Properties of Asphalt Concrete Mixtures*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$367,541
Duration: 33 Months, 1/1/2003 - 9/30/05

Project Title: *Comparative Evaluation of Subgrade Resilient Modulus from Non-Destructive, In-situ, and Laboratory Methods*
Principal Investigator: Kevin Gaspard
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$443,732
Duration: 34 Months, 7/1/2003 - 03/31/06

Project Title: *A New Testing Methodology For The Determination Of The Fracture And Fatigue Resistance Of Asphaltic Pavements*
Principal Investigator: Mary Ann Mull
Co-Principal Investigator: Louay N. Mohammad and Ayman Othman
Funding Source/Amount: NSF - \$60,000
Duration: 12 Months, 10/1/2003 - 6/30/2007

Project Title: *Development of Models to Estimate the Subgrade and Base Resilient Modulus from In-Situ Devices Test Results for Construction Control*
Principal Investigator: Louay N. Mohammad
Co-Principal Investigator: Murad AbuFarsakh and Khalid Alshibli
Funding Source/Amount: FHWA/LADOTD - \$110,630
Duration: 31 Months, 6/1/2003- 12/30/2005

Project Title: *Accelerated Loading Evaluation of a Sub-Base Layer on Pavement Performance at the Louisiana Accelerated Loading Facility*
Principal Investigator: Masood Rasoulian
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$334,425
Duration: 24 Months, 3/01/2003- 2/28/2005

Project Title: *Acquisition of Hamburg Loaded Wheel Tester for Permanent Deformation and Moisture Damage Evaluation of Flexible Pavement*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$97,465

- Duration: 12 Months, 7/01/2001- 6/30/2002
- Project Title: *Tomography Imaging and Computational Technology for the Characterization of Asphalt Concrete*
- Principal Investigator: Linbing Wang
- Co-Principal Investigator: Louay N. Mohammad
- Funding Source/Amount: FHWA/LADOTD - \$177,597
- Duration: 36 Months, 7/01/2001-6/30/2004
- Project Title: *Acquisition of a Low-resolution X-ray Tomography Image Analyzer for Civil Engineering Materials Characterization*
- Principle Investigator: John Metcalf
- Co-Principal Investigator: Linbing Wang and Louay N. Mohammad
- Funding Source/Amount: LEQSF - \$199,830
- Duration: 12 Months, 7/01/2001-6/30/2003
- Project Title: *Influence of Asphalt Tack Coat Materials on the Interface Bond Strength*
- Principal Investigator: Louay N. Mohammad
- Funding Source/Amount: FHWA/LADOTD - \$90,675
- Duration: 18 Months, 7/01/2001 - 12/30/2002
- Project Title: *Evaluation of Stone/RAP Interlayers Under Accelerated Loading*
- Principle Investigator: Masood Rasoulian
- Co-Principal Investigator: Louay N. Mohammad
- Funding Source/Amount: FHWA/LADOTD - \$149,541
- Duration: 18 Months, 12/01/2000 - 6/30/2002
- Project Title: *Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements*
- Principal Investigator: Louay N. Mohammad
- Co-Principal Investigator: William Daly (Chemistry) and Iacon Negulescu (Human Ecology)
- Funding Source/Amount: LEQSF - \$150,000
FHWA/LADOTD - \$71,430
Koch Materials, Inc. - \$30,000
- Duration: 48 Months, 6/01/1998 - 6/30/2002
- Project Title: *Performance Evaluation of Louisiana's Superpave Implementation Projects Utilizing the Superpave Shear Tester*
- Principal Investigator: Louay N. Mohammad
- Funding Source/Amount: FHWA/LADOTD - \$168,707
- Duration: 54 Months, 12/01/1997- 6/30/2002
- Project Title: *In-place Cement Stabilized Base Reconstruction Techniques*
- Principal Investigator: Kevin Gaspard
- Co-Principal Investigator: Louay N. Mohammad

- Funding Source/Amount: FHWA/LADOTD - \$266,428
Duration: 72 Months, 4/01/1997 - 4/30/2003
- Project Title: *Investigation of the Applicability of Intrusion Technology to Estimate Resilient Modulus of Subgrade Soil*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$140,497
Duration: 46 Months, 8/01/1997- 6/30/2001
- Project Title: *Comparative Performance of Conventional and Rubberized Hot Mix Under Accelerated Loading*
- Principle Investigator: Freddy Roberts (La Tech University)
Co-Principal Investigator: Louay N. Mohammad, John Metcalf, and Masood Rasoulian
Funding Source/Amount: FHWA - \$145,321
Duration: 44 Months, 3/01/1998 - 12/30/2000
- Project Title: *Acquisition of Dynamic Axial Testing System*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$91,603
Duration: 12 Months, 6/01/1997- 7/30/1998
- Project Title: *Evaluation of a Loaded Wheel Tester for Asphaltic Concrete Mixtures*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$197,585
Pine Bluff Sand & Gravel, Co. - \$17,000
Duration: 44 Months, 7/01/1997- 3/30/2000
- Project Title: *Acquisition of the Superpave Shear Tester Test System*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$305,361
Duration: 12 Months, 7/01/1995 - 6/30/1996
- Project Title: *Laboratory Evaluation of Stone Mastic Asphalt Pavement Mixtures*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$100,696
Koch Materials, Inc. - In-Kind, Testing of Samples
Heritage Research Group - In-Kind, Testing of Samples
Duration: 30 Months, 7/01/1995- 1/30/1997
- Project Title: *Evaluation of the Fundamental Engineering Properties of Large Stone Asphalt Mixes in Louisiana*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$257,917
Duration: Four Years, 6/01/1994 - 6/30/1998

Project Title: *Development of a Correlation Between Physical and Fundamental Properties of Louisiana Soils*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$184,289
Duration: Three Years, 9/01/1993 - 9/30/1996

Project Title: *Evaluation of the Fundamental Engineering Properties of Bituminous Mixtures Containing Hydrated Lime*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$79,969
Koch Materials, Inc. - In-Kind, Testing of Samples
Duration: 18 Months, 10/01/1994 - 5/30/1996

Project Title: *Investigation of Temperature Profile in NEMA Traffic Control Cabinets*
Principal Investigator: Darcy Bullock
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD- \$3,000
Duration: 5 Months, 7/01/1994-12/30/1994

Project Title: *Donation of NCAT Ignition Oven*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Thermolyne Company, Dubuque, Iowa - \$10,500
Duration: 10/01/1997

Project Title: *Donation of a Dynamic Creep Tester*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Exxon Research and Engineering Company, Linden, New Jersey - \$44,000
Duration: 7/01/1993

Project Title: *Validation of the Performance of the Louisiana ALF Data Acquisition System*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$43,989
Duration: 12 Months, 8/01/1992 - 7/30/1993

Project Title: *Equipment up-grade for the EMCRF Facility*
Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$70,000
Duration: 12 Months, 7/01/1992 - 6/30/1993

Project Title: *A Dynamic Testing System for Pavement Materials Characterization and Performance Evaluation*
Principal Investigator: Louay N. Mohammad
Co-Principal Investigator: Roger Seals, Paul Foxworthy and John Metcalf and Harold Paul

- Funding Sources/Amount: LEQSF -\$185,890
Duration: 12 Months, 7/01/1992 - 6/30/1993
- Project Title: *Design and Development of a Data Acquisition System for the Louisiana ALF*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$35,502
Duration: 4 Months, 3/01/1992 - 7/30/1992
- Project Title: *Investigation of the Use of Resilient Modulus for Louisiana Soils in Design of Pavements*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$175,657
Duration: Two Years, 8/01/1991 - 9/30/1993
- Project Title: *Evaluation of Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix*
- Principal Investigator: Harold Paul
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA -- Direct Contract in Respond to a FHWA RFP - \$40,000
Duration: Three Years, 1989 - 1992
- Project Title: *A Parametric Evaluation of Fundamental Engineering Properties for Louisiana Hot Mix*
- Principal Investigator: Harold Paul
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD - \$230,236
Duration: Five years, 1988 - 1993
- Project Title: *Biomechanical Effects of Proximal Check Desmotomy: In Vivo Equine Studies*
- Principal Investigator: Alecia Bertone (Veterinary Medicine) and Stuart Shoemaker (Veterinary Meccicine)
- Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: AVMA Council on Research - \$7000
Duration: One Year, 1988 - 1989
- Project Title: *Biomechanical Effects of Proximal Check Desmotomy: In Vitro Equine Study*
- Principal Investigator: Alecia Bertone (Veterinary Medicine) and Stuart Shoemaker (Veterinary Medicine)
- Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Equine Veterinary

Project Title: *Biomechanical Effects of Transection of the Accessory Ligament of the Deep Digital Flexor Tendon: In Vitro and in Vitro Equine Study*

Principal Investigator: Alecia Bertone (Veterinary Medicine) and Stuart Shoemaker (Veterinary Medicine)

Co-Principal Investigator: Louay N. Mohammad











July 18-21, 2011, April 5-8, 2004, July 22-25, 2003, April 23-26, 2002, May 7-10, 2002, April 9-12, 2001, January 29-February 1, 2001, January 22-25, 2001, November 17-20, 1998, March 24-27, 1998, February 25-27, 1998, October 20 - 23, 1997, September 29 - October 2, 1997, September 16-19, 1997

Superpave Training Workshop for Technicians, 1 ½ days

April 29-30, 2002, May 13-14, 2002, May 15-16, 2002, April 25-26, 2001, April 2-3, 2001, March 14-15, 2001, March 12-13, 2001, March 5-6, 2001, February 21-22, 2001, February 19-20, 2001, March 27 - 28, 2000, June 14-15, 1999, June 9-10, 1999

NHI Course No. 13152 “Superpave for the Generalist Engineer and Project Staff,”

March 30, 2002, April 4, 2001, April 2, 2001, April 13-14, 1998

PUBLICATIONS

Summary of Dr. Mohammad’s publications

Refereed Journals	248
Refereed Proceedings Papers	69
Other Proceedings Papers	4
Technical Reports	65
Technical Magazines – Invited Articles	11
Books/Edited Books	9

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. Zhu, Y., Zhang, W., Mohammad, L. N., Ma, T., Chen, F., Fang, Z., and Liu, H., "Viscoelastic-plastic constitutive model for AC lower surface layer considering time-varying characteristics during intelligent compaction process"

14. 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

- Resistance of Asphalt Mixtures." *ASCE Journal of Materials in Civil Engineering*, Vol 34 (3), 2022, pp. 04021491:1-9.
24. Al-Hosainat, A., Nazzal, M., Talha, SK., Kim, S., Abbas, A., Mohammad, L. N., Biehl, E., and Ricciardi, P., "Evaluation of The Interlayer Bond Strength of Micro-Surfacing Mixes." *The National Academies of Science, Engineering, and Medicine. Transportation Research Record*, Vol 2676 (1), , 2022, pp. 596-608.
 25. Al-Hosainat, A., Nazzal, M., Talha, SK., Kim, S., Abbas, A., and Mohammad, L. N., "A Comprehensive Laboratory Evaluation of the Factors Affecting the Micro-Surfacing Interlayer Bond Strength." *Construction and Building Materials*, Vol. 323, 2022, pp. 1-12.
 26. Elnaml, I., Mousa, M., Idris, I., and Mohammad, L. N., "Development of a Cost-Effective High-Modulus Asphalt Concrete (HMAC) Mixtures Using Crumb Rubber and Local Construction Materials in Louisiana." *The National Academies of Science, Engineering, and Medicine. Transportation Research Record*, Vol 2676 (61), 2022, pp. 274-286.
 27. Barghabany, P., Zhang, J., Mohammad, L. N., Cooper III, S., and Cooper Jr, S., "Chemical and Rheological Characterization of Asphalt Binders: A Comparison of Asphalt Binder Aging to Asphalt Mixture Aging." *The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record*, Vol. 2676 (5), 2022, pp. 147-157.
 28. Talha, SK., Al-Hosainat, A., Nazzal, M., Kim, S., Abbas, A., Mohammad, L. N., and Nassar, S., "Laboratory Evaluation of Micro-Surfacing Bond Strength." *ASCE Journal of Materials in Civil Engineering*, Vol 34 (2), 2022, pp. 04021444: 1-7.
 29. Barghabany, P., Zhang, J., Mohammad, L. N., Cooper III, S., and Cooper Jr, S., "Novel Model to Predict Fracture Parameter SCB Jc for Asphalt Mixtures Using an Artificial Neural

33. Ali, H., Mohammad, L.N., Mohammadafzali, M., Haddadi, F., Akentuna, M., and Sholar, G., "Investigating the

43. Saadeh, S., Al-Zubi, Y., Mahmoud, E., Renteria, and Mohammad, L. N., "Sensitivity Analysis On Semi-Circular Bending Tests Using the Plackett-Burman Matrix." The National Academies of Science, Engineering, and Medicine

64. Cao, W., Mohammad, L. N., Barghabany, P

74. Mohammad, L. N., Elseifi, M., and Cooper, Jr., S., "Development of Rubberized Asphalt Binder Specification." *Journal of Innovative Infrastructure Solutions*. DOI: 10.1007/s41062-017-0072-9, 2017, pp. 1-5.
75. Saadeh, S., and Mohammad, L. N., "Moisture Sensitivity of Warm and Hot Mix Asphalt: Comparison of Loaded Wheel Tracking and Modified Lottman Tests." *ASCE GSP 277*, DOI:10.1061/9780784480441.029, 2017, pp. 272-280.
76. Wu, S., Zhang, W., Shen, S., Lid, X., Muhunthane, B., and Mohammad, L. N., "Field-aged asphalt binder performance evaluation for Evotherm warm mix asphalt: Comparisons with hot mix asphalt." *Construction and Building Materials*, Vol. 156, 2017, pp. 574-583.
77. Al-Shamsi, K., Hassan, H., and Mohammad, L. N., "Effect of Low VMA in Hot Mix Asphalt on Load-Related Cracking Resistance." *Construction and Building Materials*, Vol. 149, 2017, pp. 386-394.
78. Pamulapati Y., Elseifi, M., Cooper, III, S., Mohammad, L. N., and Elbagalati, O., "Evaluation of Self-Healing of Asphalt concrete through Induction Heating and Metallic Fibers." *Construction and Building Materials*, Vol. 146, 2017, pp. 66-75.
79. Das, R., Mohammad, L.N., Elseifi, M., Cao, W., and Cooper, Jr., S.; "Effects of Tack Coat Application on Interface Bond Strength and Short-Term Pavement Performance." *The National Academies of Science, Engineering, and Medicine. Journal of the Transportation Research Record*, DOI: 10.3141/2633-02, Volume 2633, 2017, pp. 1-8.
80. Shirzad, S., Hassan, M., Aguirre, M., Mohammad, L. N., Cooper, Jr., S., and Negulesco, I. "Microencapsulated Sunflower Oil for Rejuvenation of Asphalt Mixtures." *ASCE Journal of Materials in Civil Engineering*, DOI: 10.1061/(ASCE)MT.1943-5533.0001988, Volume 29 (9), 2017, pp. 1-9
81. Aguirre, M., Hassan, M, Shirzad, S., Mohammad, L. N., Cooper, Jr., S., and Negulescu, I., "Performance of Asphalt Rejuvenators in Hot Mix Asphalt Mixtures Containing Recycled Asphalt Shingles." *The National Academies of Science, Engineering, and Medicine. Journal of the Transportation Research Record*, DOI: 10.3141/2633-13, TRR No. 2633, 2017, pp. 1-9.
82. Aguirre, M., Hassan, M, Shirzad, S., Mohammad, L. N., Cooper, Jr., S., and Negulescu, I., "Laboratory Testing of Self-Healing Microcapsules in Asphalt Mixtures Prepared with Recycled Asphalt Shingles." *ASCE Journal of Materials in Civil Engineering*, DOI: 10.1061/(ASCE)MT.1943-5533.0001942, Volume 29 (9), 2017, pp. 040176 Tm0 g8ZjET1 g67.5 318.96

85. Zhang, W., Shen, S., Wu, S., and Mohammad, L. N., "Long-term Field Aging of Warm Mix and Hot Mix Asphalt Binders." The National Academies of Science, Engineering, and Medicine. Journal of the Transportation Research Record, DOI: 10.3141/2632-15, TRR No. 2632, 2017, pp. 140-149.
86. Minkyum, K., Mohammad, L.N., Phaltane, P., and Elseifi, M., "Effects of Temperature Segregation on Density and Mechanical Properties of Asphalt Mixtures," Frontiers of Structural and Civil Engineering, doi.org/10.1007/s11709-017-0451-5, 2017, pp. 1-12.
87. Wu, S., Zhang, W., Shen, S., Muhunthan, B, and Mohammad, L. N., "Case Study: Short-term Performance and Material Property Evolution of Warm Mix Asphalt and Hot Mix Asphalt Pavements." The National Academies of Science, Engineering, and Medicine. Journal of the Transportation Research Record, No. 2631, DOI 10.3141/2631-05, 2017, pp. 1-16.
88. Cooper, Jr., S., Mohammad,

95. Mohammad, L. N., and Cooper, III, S., "Implementation of a Balanced Asphalt mixture Design Procedure: Louisiana's Approach." *Journal of the Association of Asphalt Paving Technologists*, Volume 85, 2016, pp. 857-876.
96. Abu-Farsakh, M., Hanandeh, S., Mohammad, L. N., and Chen, Q., "Performance of Geosynthetic Reinforced/Stabilized Paved Roads Built over Soft Soil under Cyclic Plate Loads." *Geotextiles and Geomembranes*, Volume 44, Issue 6, 2016, pp. 845–853
97. Wu, S., Zhang, W., Shen, S., Mohammad, L.

106. Elseif

116. Wasiuddin, N. M., Parker, P., Abadie, C., and Mohammad, L. N., “Field and Laboratory Evaluation of Environmental Effects on Chip Seal Performance: Freeze-Thaw and Asphalt Aging.” *ASTM Journal of Testing and Evaluation*, Vol. 43, No. 4, 2015, pp. 1-13.
117. Alvergue, A., Elseifi, M., Mohammad, L. N., Cooper, Jr., S. B., Cooper III, S., “Laboratory Evaluation of Asphalt Mixtures with Reclaimed Asphalt Shingle Prepared Using the Wet Process.” *Journal of the Association of Asphalt Pavement Technologists*, Volume 83, 2014, pp. 197-224.
118. Kiletico, M., Hassan, M., Mohammad, L. N., and Alvergue, A., “New Approach to Recycle Glass Cullet in Asphalt Shingles to Alleviate Thermal Loads and Reduce Heat Island Effects.” *ASCE Journal of Materials in Civil Engineering*, Volume 27, No. 8, 2015, pp. 1-9.
119. Cooper III, S., Mohammad, L. N., Kabir, Md., and King, W., “Balanced Asphalt Mixture Design through Specification Modification: Louisiana's Experience.” *Journal of Transportation Research Record*, Volume 2447, No. 4, 2014, pp. 92-100.
120. Mohammad, L. N., and Elseifi, M., “Optimization of Tack Coat for Hot-Mix Asphalt Placement.” *Transportation Research Board Circular No. E-C186*, 2014, pp. 35-49.
121. Cooper Jr., S., Mohammad, L. N., and Elseifi, M., "Laboratory Performance of Asphalt Mixtures Containing Recycled Asphalt Shingles." *Journal of Transportation Research Record No. 2445*, Vol. 2, 2014, pp. 94-102.
122. Hassan, M., Lodge, A., Mohammad, L. N., and King, W., Jr.. "Variability and Characteristics of Recycled Asphalt Shingles Sampled from Different Sources." *Journal of Materials in Civil Engineering*. Volume 26, No. 4, 2014, pp. 748–754.
123. Wu, Z., Mohammad, L. N., and Zhang, Z., "Accelerated Loading Evaluation of Foamed Asphalt Treated RAP Layers in Pavement Performance." *International Journal of Pavement Research and Technology*, Vol. 6, No. 4 and 5, 2013, pp. 395-402 .(Recipient of the Best Paper Award).
124. Mohammad, L. N., Elseifi, M., Cooper, S., III, Challa, H., and Naidoo, P., “Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies.” *Journal of Transportation Research Record No. 2371*, Vol. 2, 2013, pp. 58-65.
125. Mogawer, W., Austerman, A., Mohammad, L., Kutay, M., “Evaluation of High RAP-WMA Asphalt Rubber Mixtures.” *Journal of the Association of Asphalt Paving Technologist*, 2013, pp.253-287.
126. Cooper, S., III, Mohammad, L. N., and Elseifi, M., “Evaluation of Asphalt Mixtures Containing Renewable Binder Technologies.” *International Journal of Pavement Research and Technology*, Vol. 6, No. 5, 2013, pp. 570-575.
127. Mohammad, L. N.

128. Wasiuddin, N.M., Marshall, A., Saltibus, N.E., Saber, A., Abadie, C., and Mohammad, L. N., "Use of Sweep Test for Emulsion and Hot Asphalt Chip Seals: Laboratory and Field

139. Wasiuddin, N., Saha, R., King, Jr., W., and Mohammad, L. N., "Effects of Temperature and Shear Rate on Viscosity of Sasobit® -Modified Asphalt Binders." *International Journal of Pavement Research and Technology*, Vol. 5, No. 6, 2012, pp. 369-378.
140. Elseifi, M., Salari, S., Mohammad, L. N., Hassan, M., Daly, W., and Dessouky, S., "A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt." *ASCE Journal of Materials in Civil Engineering*, Volume 24, No. 11, 2012. pp. 1403-1411.
141. 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 Temperature." *Journal of Road Materials and Pavement Design*, Vol. 13, No. S1, 2012, pp. 124–139.
142. Bae, A., Mohammad, L. N., Cooper, Jr., S., King, W., "Evaluation Of Various Test Devices For The Measurements Of Aggregates And Asphalt Mixtures' Specific Gravity." *ASTM Journal of Testing and Evaluation*, Vol. 40, No. 1, 2012, pp. 58-65.
143. Hassan, M., Dylla, H.; Asadi, S., Mohammad, L. N., Cooper, S., "Lab Evaluation of Environmental Performance of Photo-catalytic Titanium Dioxide Warm-Mix Asphalt pavements." *ASCE Journal of Materials in Civil Engineering*, Vol. 24, No. 5, 2012, pp. 599-605.
144. Elseifi, M., Mohammad, L. N., King, W., Zhang, Z., "Assessment of Stress and Strain Instrumentation in Accelerated-Pavement Testing." *International Journal of Pavement Research and Technology*, Volume 5, No. 2, 2012, pp. 121-127.
145. Cooper, S., Elseifi, M., Mohammad, L. N., Hassan, M., "Performance and Cost Effectiveness of Sustainable Technologies in Flexible Pavements using the Mechanistic-Empirical Pavement Design Guide." *ASCE Journal of Materials in Civil Engineering*, Volume 24, No. 2, 2012, pp. 239-247.
146. Dylla, H., Hassan, M., Schmitt, M., Rupnow, T., Mohammad, L. N., "Laboratory Investigation of the Effect of Mixed Nitrogen Dioxide and Nitrogen Oxide Gasses on Titanium Dioxide Photocatalytic Efficiency in Concrete Pavements." *ASCE Journal of Materials in Civil Engineering*, Vol. 23, No. 7, 2011, pp. 1087-1093.
147. 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.
148. Khattak, M., Mohammad, L. N., Yuan, F., Abadie, C., "Variability of In Situ HMA Volumetric and Mechanistic Characteristics Using Nondestructive Testing (NDT): Case Study." *International Journal of Pavement Engineering*, DOI No: 0.1080/10298436.2011.597858, 2011, pp. 1-16
149. Elseifi, M., Mohammad, L.N., Kassem, E., Ying, H., Masad, E., "Quantification of Damage

150. 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.
151. Mohammad, L. N., Cooper, S., and Elseifi, M., "Characterization of HMA Mixtures Containing High Reclaimed Asphalt Pavement Content with Crumb Rubber Additives." ASCE Journal of Materials in Civil Engineering, 2011, pp.1560-1568.
152. Elseifi, M., Mohammad, L. N., and Cooper, S., "Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies." Journal of the Association of Asphalt Paving Technologist, Vol. 80, 2011, pp. 227-253.
153. Mohammad, L. N., Hassan, M., and Patel, N., "Effects of Shear Bond Characteristics of Tack Coats on Pavement Performance at the Interface." Journal of the Transportation Research Board, No. 2209, Volume 3, 2011, pp. 1-8.
154. Hassan, M., Mohammad, L. N., Cooper, S., Dylla, H., "Evaluation of Titanium Dioxide as a Photocatalytic in Asphalt Binder." Journal of the Transportation Research Board, No. 2207, 2011, pp. 11-15.
155. Wasiuddin, N., Saltibus, N., and Mohammad, L. N., "A Novel Moisture Conditioning Method for Adhesive Failure of Hot and Warm Mix Asphalt Binders." Journal of the Transportation Research Board, No. 2208, 2011, pp. 108-117.
156. Dylla, H., Hassan, M., Schmitt, M., Rupnow, T., Mohammad, L. N., and Wright, E., "Effects of Roadway Contaminants on Titanium Dioxide Photodegradation of NOx." Journal of the Transportation Research Record, No. 2240, 2011, pp. 22-29.
157. Mohammad, L. N., and Nazzal, M., "Performance Evaluation and Environmental Impact Assessment of Asphalt Treated Mixtures Used in Low-Volume Roads." 10th International Conference on Low-Volume Roads. Journal of the Transportation Research Board, Transportation Research Record No. 2205, 2011, pp.28-35.
158. Tao, M., Mohammad, L. N., Nazzal, M. Zhang, Z., and Wu, Z., "Application of Shakedown Theory in Characterizing Traditional and Recycled Pavement Base Materials." Journal of Transportation Engineering, ASCE, Vol. 136, No. 3, 2010, pp. 214-222.
159. Mohammad, L. N., Nazzal, M., and Auston, A., "Evaluation of a New Generation of Asphalt Treated Mixtures." ASCE Special Technical Publication No. 203, Paving Materials and Pavement Analysis, 2010, pp. 240-247.
160. Al Shamsi, K., Mohammad, L. N.

162. Nazzal, M., Mohammad, L. N., "Estimation of Resilient Modulus of Subgrade Soils for

173. Mohammad, L. N., Bae, A. Elseifi, M., Button, J., and Scherocman, J., “Interface Shear Strength Characteristics of Emulsified Tack Coats.” *Journal of the Association of Asphalt Paving Technologist*, Vol. 78, 2009., pp. 249-278.
174. Mohammad, L. N., Saadeh, S., Kabir, M., Othman, A., and Cooper, S., “Mechanistic Properties of HMA Mixtures Containing Hydrated Lime.” *Journal of the Transportation Research Board*, No. 2051, 2008, pp. 49-63.
175. Xu, Q., Mohammad, L. N., and Wu, Z., Modeling Asphalt Pavement Rutting under Accelerated Testing, *Journal of Road Materials and Pavement Design*, 2008, Vol. 9, No. 4, pp. 665-687.
176. Negulescu, I, Mohammad, L. N., Daly, W., Abadie, C., and

185. Nazzal, M., Abu-Farsakh, M., Alshibli, K., and Mohammad, L. N., “Evaluating the LFWD Device for in Situ Measurement of Elastic Modulus of Pavement Layers.” *Journal of the Transportation Research Board*, No. 2016, 2007, pp. 13-22.
186. Mohammad, L. N., Saadeh, S., Zhang, C., Cooper, S., Abadie, A., and Khattak, J., “Comparative Study of the Mechanical Properties of HMA Mixtures: Field vs Laboratory.” *Journal of the Association of Asphalt Paving Technologist*, Vol. 76, 2007, pp. 887-918.
187. Nazzal, M., Abu-Farsakh, M., and Mohammad, L. N., “Laboratory Characterization Of

196. Wu, Z., Mohammad, L. N., Wang, LB, Mull, M., "Fracture Resistance Characterization of Superpave Mixtures Using a Semi-Circular," *Journal of ASTM International*, Vol. 2, No. 3, 2005, pp. 1-15.

- Publication, No. 1437, "Resilient Modulus Testing for Pavement Components 2003, pp. 252-270.
208. Mohammad, L. N., Herath, A., and Titi, H.H., "The Use of Continuous Intrusion Miniature Cone Penetration Resting in Estimating the Resilient Modulus of Cohesive Soils," ASTM Special Technical Publication, No. 1437, "Resilient Modulus Testing for Pavement Components 2003, pp. 233-251.
 209. Roberts, F.L., Qin, H., and Mohammad L. N., "Modeling Permanent Deformation of the Louisiana ALF Crumb Rubber Modified Test Sections," International Journal of Pavements, Volume 2, No. 1-2, 2003, pp. 100-111.
 210. Huang, B., Li, G., and Mohammad, L. N., "Analytical Modeling and Experimental Study of Tensile Strength of Asphalt Concrete Composite At Low Temperatures," Journal of Composite Part B: Engineering, Vol. 34, No.8, pp. 705-714, 2003.
 211. Wu, Z., Mohammad, L. N., Wang, L. B., Raghavendra, A., and Abadie, C., "Sensitivity Analysis of Permanent Deformation on Superpave and SMA Mixtures as Measured by the Asphalt Pavement Analyzer," International Journal of Pavements, Volume 2, No. 3, 2003, pp. 50-61.
 212. Mohammad, L. N., Negulescu, I., Wu, Z., Daranga, C., Daly, W. H., and Abadie, C., "Investigation of the Use of Recycled Polymer Modified Asphalt Binder in Asphalt Concrete Pavements," Journal of the Association of Asphalt Paving Technologist, Vol. 72, 2003, pp. 551-594.
 213. Mohammad, L. N., Abu-Farsakh, M.Y., Wu, Z., and Abadie, C., "Louisiana Experience With Foamed Recycled Asphalt Pavement Base Materials," Journal of the Transportation Research Board, No. 1832, 2003, pp. 17-24.
 214. Wang, L. B., Meyers, L.A., Mohammad, L. N., and Fu, Y. R., "A Micromechanics Study on Top-Down Cracking," Journal of the Transportation Research Board, No. 1853, 2003, pp. 121-133.
 215. Mohammad, L. N., Herath, A., and Huang, B., "Evaluation of Permeability of Superpave Asphalt Mixtures," Journal of the Transportation Research Board, No. 1832, 2003, pp. 50-58.
 216. Wang, L. B., Wang, Y., Mohammad, L. N., and Harman, T., "Voids Distribution and Performance of Asphalt Concrete," International Journal of Pavements, Volume 1, No. 3, 2002, pp. 22-33.
 217. Roberts, F.L., Mohammad, L. N., Wang, L. B., "History of Hot Mix Asphalt Mixture Design in the USA," ASCE Journal of Materials in Civil Engineering, Volume 14 No. 4, 2002, pp. 279-293.
 218. Huang, B., Mohammad, L. N., "Numerical Analysis of Crumb-Rubber Modified Asphalt Pavements at the Louisiana Accelerated Loading Facility," International Journal of Pavements, Volume 1, No. 2, 2002, pp. 59-70.

219. Mohammad, L. N., Wu, Z., Wang, L. B., Abadie, C., “A Rut Susceptibility Study on Superpave Mixtures,” International Journal of Pavements, Volume 1, No. 2, 2002, pp. 23-35.
220. Huang, B., Mohammad, L. N., Graves, P.S., Abadie, C., “Louisiana Experience with Crumb-Rubber-Modified Hot-Mix Asphalt Pavement,” Journal of the Transportation Research Board, No. 1789, 2002, pp. 1-13.
221. Mohammad, L. N., Raqib, Md., Huang, B., “The Influence of Asphalt Tack Coat Materials on the Interface Shear Strength,” Journal of the Transportation Research Board, No. 1789, 2002, pp. 56-65.
222. Huang, B., Mohammad, L. N., Wathugala, W., “Development of a Thermo-Viscoplastic Constitutive Model for HMA Mixtures,” Journal of the Association of Asphalt Paving Technologist, Volume 71, 2002, pp. 594-618.
223. Mohammad, L. N., Huang, B., and Cea, M., “Characterization of HMA Mixtures with the Asphalt Pavement Analyzer,” ASTM Special Technical Publication, No. 1412, “Aggregate Contribution to Hot Mix Asphalt Performance,” 2001, pp. 16-29.
224. Mohammad, L. N., Huang, B., and Zheng, T., “Evaluation of Aggregate Contributions to Rutting Susceptibility of Asphalt Mixtures,” ASTM Special Technical Publication, No. 1412, “Aggregate Contribution to Hot Mix Asphalt Performance,” 2001, pp. 58-71.
225. Huang, B., Mohammad, L. N., and Rasoulian, M., “3-D Numerical Simulation of Asphalt Pavement at the Louisiana ALF,” Journal of the Transportation Research Board, No. 1764, 2001, pp.44-58.
226. Mohammad, L. N., Huang, B., Roberts, F., and Rasoulian, M., “Accelerated Loading Performance of Crumb Rubber Asphalt Pavements,” International Journal of Road Materials and Pavement Design, Volume 1, No. 4, 2000, pp. 467-493.
227. Mohammad, L. N., Abadie, C., and Gokman, R., “Mechanistic Evaluation of Hydrated Lime in HMA Mixtures,” Journal of the Transportation Research Board, No. 1723, December 2000, pp. 26-36.
228. Mohammad, L. N., Huang, B., Abadie, A., and Raghavendra, A., “Laboratory Study of Large Stone Asphalt Mixtures,” Journal of the Association of Asphalt Paving Technologist, Volume 69, 2000, pp. 122-147.
229. Mohammad, L. N., Huang, B., and Raghavendra, A., “Laboratory Performance Evaluation of Cement Treated Soil Base Course Mixtures,” Journal of the Transportation Research Board, No. 1721, December 2000, pp. 19-28.
230. Titi, H. H., Mohammad, L. N. and Tumay, M.T., “Miniature Cone Penetration Tests in Soft and Stiff Clays,” ASTM Geotechnical Testing Journal, Volume 23, No. 4, December 2000, pp. 432-443.
231. Puppala A., Mohammad, L. N., Allen, A., “Permanent Deformation Characterization of Subgrade Soils from RLT Test,” ASCE Journal

232. Mohammad, L. N., Huang, B., Puppala, A, and Allen A., “A Regression Model for Resilient Modulus of Subgrade Soils,” National Research Council Journal of the Transportation Research Board, No. 1687, 1999, pp. 47-54.
233. Mohammad, L. N., Huang, B., and Zhang, X., “Laboratory Performance Evaluation of SMA, CMHB, and Dense Graded Asphalt Mixtures,” Journal of the Association of Asphalt Paving Technologist, Volume 68, 1999, pp. 252-283.
234. Huang, B., Mohammad, L. N., Ragavendra, A., and Abadie, C., “Fundamental of Permeability in Asphalt Mixtures,” Journal of the Association of Asphalt Paving Technologist, Volume 68, 1999, pp. 479-500.
235. Mohammad, L. N., Titi, H., and Herath A., “Evaluation of Resilient Modulus of Subgrade

243. Mohammad, L. N., and Paul, H.R., "Evaluation of the Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix," National Academy of Science, Transportation Research Record No. 1417, 1993, pp. 58-63.
244. Mohammad, L. N., Alavilli, P., and Puppala, A., "Data Acquisition System for Determining the Resilient Modulus of Soils," Advances in Site Characterization: Data Acquisition, Management and Interpretation, ASCE Geotechnical Special Publication No. 37, C. Ho, and R.D. Hryciw, Eds., American Society of Civil Engineers, New York, 1993, pp. 27-41.
245. Mohammad, L. N., and Paul, H.R., "Evaluation of a New Indirect Tensile Test Apparatus," National Academy of Science, Transportation Research Record No. 1353, 1992, pp. 62-68.
246. Voyiadjis, G. Z., and Mohammad, L. N., "Theory vs. Experiment for a Finite Strain, Visco-Plastic, Lagrangian Constitutive Model," International Journal of Plasticity, Vol. 7, 1991, pp. 329-350.
247. Shoemaker, R.S., Bertone A. L., Mohammad, L. N., and Arms, S.W., "Desmotomy of the Accessory Ligament of the Superficial Digital Flexor Muscle in Equine Cadaver Limbs," Journal of Veterinary Surgery, Vol. 20(4), 1991, pp. 245-252.
248. Voyiadjis, G.Z., and Mohammad, L. N., "Rate Equations for Visco-Plastic Materials Subjected to Finite Strains," International Journal of Plasticity, Vol. 4, 1988, pp. 215-229.

QLAS V.1.1: Quality Level Analysis Utilizing Percent Within Limits for QC/QA of Asphaltic Concrete Pavement, 1998.

FORDUC[®] V.1.1: Test Method for Bituminous Materials in Tension, 1994.

Elseifi M., and Mohammad, L., "Wet Process for Recycling Asphalt Shingle in Asphalt Binder for Asphalt Paving Applications." Serial number of 14/191,977, February 2014.

AASHTO TP 114	Determining the Interlayer Shear Strength of Asphalt Pavement Layers
---------------	--

AASHTO TP 115	Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory
---------------	--

ASTM D8044	Evaluation of Asphalt Mixture Cracking Resistance Using the Semi-circular Bend (SCB) Test at Intermediate Temperature
------------	---

Editor

- 1 Tran-SET 2022, Proceedings of the Tran-SET Conference 2022, edited by S. Dessouky, H Dhasmana, M. Hassan, and L. Mohammad, August 31-September 2, 2022, ASCE, Reston VA.
- 2 Asphalt Pavement Technologies: Innovation and Sustainability Materials. Special Collection, edited by Huang, H., Huang, B, Zhao, H., Shen, S., and Mohammad, L.N., ASCE Journal of Materials in in Civil Engineering, Jan. 2022, Reston, VA.
- 3 Developing, Evaluating, and Implementing Cutting-edge Technologies, Novel Materials, and Innovative Construction Management Processes to Enhance the Durability and Service of Transportation Infrastructure, Proceedings of the Tran-SET Conference 2021, edited by Z. Hossain, M. Hassan, and L. Mohammad, June 3-4,2021, ASCE, Reston VA.
- 4 Sustainable Civil Infrastructures: Sustainable Issues in Transportation Engineering, Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures, Edited by L. Mohammad and Ragaa El-Hakim, November 10-14, 2019, Cairo, Egypt
- 5 Sustainable Civil Infrastructures: New Frontiers in Sustainable Roads, Edited by Louay Mohammad and Hany Shehata, ASCE Journal of Materials in Civil Engineering, 2019.
- 6 Sustainable Road Paving: Materials, Design, Construction, and Maintenance, Journal of Cleaner Production, Edited by Baoshan Huang, Mingzhou Jin, Wang Yuhong, Louay N. Mohammad, Xueyan Liu, 2018
- 7 Transportation and Pavement Engineering, Proceeding of the GeoMEast 2017 Conference, Edited by Louay Mohammad, July dt5~9, C017 ShearaEl-Hhehikh Egypt

78-2499.4(TP1.48er for)8.4(ence tTstos forHostMinx Aphalt P(HMA),Infcluing oFunda)8.4(e)-.6(nt l ond Ex)8.4

Bituminous/Flexible Pavements Section editor,

ASCE Journal of Materials in Civil Engineering, February 2014 - Present

Associate Editor,

ASCE Journal of Materials in Civil Engineering, October 2001 - February 2014

International Journal of Pavement Research and Technology, 2007 - Present

Journal of Engineering Research, 2005 - Present

-
- 1 Amarh, E., Bowers, B., Cooper III, S., Diefenderfer, B., Dylla, H., Flintsch, G., Gatiganti, S., Mohammad, L. N., Tran, N., and Elnam, I., "Piloting Life Cycle Assessment: Experiences from Alabama, Louisiana, Mississippi, and Virginia Departments of Transportation Case Studies." Proceedings of the Presented at the 6th International Symposium on Pavement, Roadway, and Bridge Life Cycle Assessment, June 6-8, 2024, Arlington, VA., pp. 206-219.
 - 2 Abufarsakh, R., Arce, G., Hassan, M., Subedi, S., Huang, S., Radovic, M., Sang, Z., Sukhishvili, S., and Mohammad, L. N., "Highly Pseudo Ductile Metakaolin Based Engineered Geopolymer Composites Using Low UHMWPE Fiber Content." Proceedings of the 2021 Tran-SET Conference, Virtual, June 3-4, 2021, edited by Z. Hossain, M. Hassan, and L. Mohammad, ASCE, Reston, VA., pp. 240-352.
 - 3 Subedi, S., Arce, G., Hassan, M.,, and Mohammad, L. N., "Feasibility of Engineered Cementitious Composites Implementing Combined Systems of Post-Processed Bagasse Ash and Fly Ash as

8 Cao, W., Mohammad, L. N., and

- 19 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.
- 20 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.
- 21 Mohammad, L. N., Elseifi, M., Patel, N., "The Effect of Tack Coat Material, Application Rate, and Pavement Surface Types on the Interface Shear Strength." Proceeding of the 5th International Conference on Bituminous Mixture and Pavements, Thessaloniki, Greece, June 1-3, 2011, pp. 795-804.
- 22 Schmitt, M, Dylla, H., Hassan, M., Mohammad, L. N., Rupnow T, and. Wright, E. "Impact of Mixed Nitrogen Dioxide (NO₂) and Nitrogen Oxide (NO) Gases on Titanium Dioxide Photodegradation of Nox." Proceeding of the 1st ASCE T&DI Congress: Integrated Transportation & Development for a Better Tomorrow, Chicago, IL, March 13-16, 2011. pp. 731-740.
- 23 Wasiuddin, N., Saltibus, N., and. Mohammad, L. N., "Effects of a Wax-Based Warm Mix Additive on Cohesive Strengths of Asphalt Binders." Proceeding of the 1st ASCE T&DI Congress: Integrated Transportation & Development for a Better Tomorrow, Chicago, IL, March 13-16, 2011. pp. 528-537.
- 24 Mohammad, L. N., Bae, A., Elseifi, M., and Patel, N., "Factors that Influence the Performance of Interface Shear Strength of Pavement Interlayers." Proceeding of the 24th Australian Road Research Board Conference, Melbourne, Australia, October 12-15, 2010.
- 25 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.
- 26 Hassan, M., Mohammad, L. N., and 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, pp. 429-436.
- 27 Zhang, Z., Mohammad, L. N., and Cooper, S., "Evaluation of Asphalt Mixtures Containing Sasobit Warm Mix.001 Tc.01ce Sh.the 2nd effect of Ultr

- 30 Mohammad, L. N. and Cooper, S., "Characterization of HMA Mixtures Containing High RAP Content with Crumb Rubber Additives." Proceeding of the Asphalt Rubber 2009 Conference, Nanjing, China, November 1-3, 2009, pp. 233-254.
- 31 Mohammad, L. N., Bae, A., and Elseifi, M., "Effect of Tack Coat Materials and Application Rates on the Interface Shear Strength." Proceeding of the 6th International Symposium on Maintenance & Rehabilitation of Pavements, Vol. II, Torino, Italy, July 8-10, 2009, pp. 636-645.
- 32 Abu Farsakh, M, Nazzal, M., and Mohammad, L. N., "Characterizing the Behavior of Geogrid-Reinforced Crushed Limestone Base Materials Using Monotonic and Cyclic Load Tests." Proceeding of the 4th International Gulf Conference on Roads, Doha, Qatar, November 11-13, 2008, pp. 753-759.
- 33 Mohammad, L. N., and Obulareddy, "Permanent Deformation Analysis of HMA Mixtures Using Simple Performance Tests." Proceeding of the 4th International Gulf Conference on Roads, Doha, Qatar, November 11-13, 2008, pp. 601-610.
- 34 Mohammad, L. N., Saadeh, S., and Kabir, Md., "Evaluation of Fracture Properties of Hot Mix Asphalt" Proceeding of the 6th RILEM International Conference on Cracking in Pavements, Chicago, Illinois, June 16-18, 2008
- 35 Mohammad, L. N., and Saadeh, S., "Laboratory Evaluation of Asphalt Mixtures Using Simple Performance Tests." Proceeding of the 5th Symposium on Maintenance & Rehabilitation of Pavements, Park City, Utah, August 8-10, 2007, pp. 229-234.
- 36 Mohammad, L. N., and Saadeh, S., "Laboratory Evaluation of Asphalt Mixtures Using Simple Performance Tests." Proceeding of the 4th International Conference on Bituminous Mixture and Pavements, Thessaloniki, Greece, April 19-20, 2007.
- 37 Mohammad, L. N., and Raqib, M., "Laboratory Evalua

- 42 Mohammad, L. N., Wu, Z., Xu, Q., and Rasoulian, M., “Accelerated Pavement Testing of Untreated RAP Layer in Flexible Pavement,” CD Proceedings of the Fourth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, Belfast, Northern Ireland, August 18-19, 2005, Paper 145, pp. 1-11.
- 43 Mohammad, L. N., Abu-Farsakh, M., Wu, Z., and Abadie, C., “Design and Construction of Foamed Recycled asphalt pavement base materials ,” CD Proceedings of the 2005 International Symposium on Pavement Recycling, São Paulo, Brazil, March 14-16, 2005, pp. 1-15.
- 44 Mohammad, L. N., Rasoulian, M, Huang, B., and Roberts, F., “APT and Laboratory Evaluation of Crumb Rubber Asphalt Pavements,” CD of the Second International Conference on Accelerated Pavement Testing, Minneapolis, MN, September 26-29, 2004, pp. 1-23
- 45 Mohammad, L. N., Wu, Z., and Aglan, M., “Characterization of Fracture and Fatigue Resistance of Recycled Polymer-Modified Asphalt Pavements,” Proceeding of the RILEM: 5th International Conference on Cracking in Pavements – Mitigation, Risk Assessment and Prevention, Ed. By . Petit, C., Al-Qadi, I., and Millien, A., Limoges, France, May 5-8, 2004, pp. 375-382.
- 46 Mohammad, L. N., Huang, B., Robert, F., and Rasoulian M., “Performance of Crumb Rubber Asphalt Pavement Through Accelerated Loading,” International Conference on Highway Pavement Data Analysis & Mechanistic Design Applications, Columbus, OH, September 8-10, 2003, pp. 17-28.
- 47 Mohammad, L. N., Wu, Z., Daly, B., and Negulescu, I., “Fatigue Performance of Asphalt Mixtures Containing Recycled Polymer-Modified Cements,” Third International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control, Guimaraes, Portugal, July 7-10, 2003, pp. 505-514.
- 48 Huang, B., and Mohammad, L. N., “Laboratory Comparisons and Numerical Analysis of Open Graded Asphalt Treated Drainable Base Mixtures,” Third International Conference on

52 Mohammad, L. N., Huang, B., "Large Stone Asphalt Mixtur

Computational Engineering Science, Vol. 1, Chapter 19.vii.2, Springer-Verlag Publishing Co., Atlanta, Ga., April 10-14, 1988.

TECHNICAL REPORTS

1. Mohammad, L. N., Jun, L., Cao, W., and Barghabany, P., "Development of a Standard

11. Cooper, Jr., S., Mohammad, L.N., Mata, D., and Cooper, III, S., "Evaluation of Tack Coat Materials on Longitudinal Joints in Louisiana." Louisiana Transportation Research Center, Report No. FHWA/LA.07/577, Baton Rouge, Louisiana, February 2018.
12. Mohammad, L. N., Elseifi, M., Das, R., and Cao, W., "Validation of the Louisiana Interlayer Shear Strength Test for Tack Coat." National Cooperative Highway Research Program, Report No. 878, Transportation Research Board, Washington, D.C., 2018.
13. Shen, S., Wu, S., Zhang, W., Mohammad, L. N., Wen, H., Muhunthan, B., and Bahadori, A., "Performance of WMA Technologies: Stage II - Long-term Field Performance." National Cooperative Highway Research Program, Report No. 843, Transportation Research Board, Washington, D.C., 2017.
14. Bahia, H., Moraes, R., Sufian, A., Swiertz, D., and Mohammad, L. N., "Investigation of Tack Coat Materials on Tracking Performance, Memorandum: Literature Review Report" Wisconsin Highway Research Program Project 0092-17-06, 2017
15. 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.12/500, Baton Rouge, Louisiana, April 2016.
16. Mohammad, L.N., Kim, M, and Challa, H., "Development of Performance-based Specifications for Louisiana Asphalt Mixtures." Louisiana Transportation Research Center, Report No. FHWA/LA.14/558, Baton Rouge, Louisiana, February 2016.
17. 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.
18. Mohammad, L.N., Elseifi, M., Raghavendra, A., and Ye, M., "Hamburg Wheel-Track Test Equipment Requirements and Improvements to AASHTO T 324." National Cooperative Highway Research Program, Report No. Web-Document 219. Transportation Research Board, Washington, D.C., 2015.
19. Wen, H., Shen, S., and Mohammad, L.N. "Performance of WMA Technologies: Stage II-Long-Term Field Performance." National Cooperative Highway Research Program, Phase II Interim Report, Washington, D.C., 2015
20. Nazarian, S., Mazari, M., Abdallah, I, Puppala, A., Mohammad, L.N., and Abu-Farsakh, M., "Modulus-Based Construction Specification for Compaction of Earthwork and Unbound Aggregate." National Cooperative Highway Research Program, Final Report, Washington, D.C., 2014.
21. Mohammad, L.N., Kim, M, Raghavendra, A., and Obulareddy, S., "Characterization of Louisiana Asphalt Mixtures Using Simple Performance Tests and MEPDG." Louisiana Transportation Research Center, Report No. FHWA/LA.11/499, Baton Rouge, Louisiana, April 2014.

22. Mohammad, L. N., Nazzal, N., King, W., and Austin, A., “Development of a Design Methodology for Asphalt Treated Mixtures,” Louisiana Transportation Research Center, Report No. FHWA/LA.09/453, Baton Rouge, Louisiana, December 2013.
23. Mohammad, L. N., Wu, Z., and King, Jr, W., “Accelerated Loading Evaluation of Foamed Asphalt Treated RAP Layers in Pavement Performance,” Louisiana Transportation Research Center, Report No. FHWA/LA.09/475, Baton Rouge, Louisiana, December 2013.
24. Mohammad, L. N., Cooper, S., Jr., King, W., and Raghavendra, A., “Characterization of HMA Mixtures Containing High Reclaimed Asphalt Pavement Content With Crumb Rubber Additives,” Louisiana Transportation Research Center, Report No. FHWA/LA.09/465, Baton Rouge, Louisiana, March 2013.
25. Mohammad, L. N., Kabir, M., Cooper, S., Jr., and Raghavendra, A., “Evaluation of Superpave Mixtures Containing Hydrated Lime,” Louisiana Transportation Research Center, Report No. FHWA/LA/432, Baton Rouge, Louisiana, July 2013.
26. Gaspard, K., Mohammad, L. N., and Wu, Z., “In-Place Cement Stabilized Base Reconstruction Techniques: Construction and Eight Year Evaluation,” Louisiana Transportation Research Center, Report No. FHWA/LA.11/427, Baton Rouge, Louisiana, March 2012.
27. Mohammad, L. N., Elseifi, M., Bae, A., Button, J., Patel, N., and Scherocman, J. "Optimization of Tack Coat for HMA Placement," National Cooperative Highway Research Program, Final Report, Washington, D.C., 2012.
28. Nazarian, S., Mohammad, L. N., and Puppala, A., “Modulus-Based Construction Specification for Compaction of Earthwork and Unbound Aggregate.” National Cooperative Highway Research Program, Interim Report, Washington, D.C., 2011.
29. Mohammad, L. N., and Elseifi, M., "Field Versus Laboratory Volumetrics & Mechanical Properties," National Cooperative Highway Research Program, Interim Report, Washington, D.C., December 2010.
30. Mohammad, L. N., and Elseifi, M., "Field Versus Laboratory Volumetrics & Mechanical Properties," National Cooperative Highway Research Program, Interim Report, Washington, D.C., April 2010.
31. Daly, W., Negulescu, I., Mohammad, L. N., and Chiparus, I., “The Use of DMA to Characterize the Aging of Asphalt Binders,” Louisiana Transportation Research Center, Report No. FHWA/LA. 07/461 , Baton Rouge, Louisiana, June 2010.
32. King, W., Kabir, S., and Mohammad, L. N., “Implementation of Testing Equipment for Asphalt Materials,” Louisiana Transportation Research Center, Report No. FHWA/L.A.458, Baton Rouge, Louisiana, May 2009.
33. Mohammad, L. N., Wu, Z., and Raghavendra, A., “Performance Evaluation of Louisiana Superpave Mixtures,” Louisiana Transportation Research Center, Report No. FHWA/LA.06/410, Baton Rouge, Louisiana, December 2008.

46. Cooper, S., and Mohammad, L. N., “Novachip Surface Treatment – Six Year Evaluation,” Louisiana Transportation Research Center, Technical Assistance Report No. 04-2TA, Baton Rouge, Louisiana, June 2004.
47. Cooper, S., and Mohammad, L. N., “Evaluation of Open Graded Friction Course Mixtures,” Louisiana Transportation Research Center, Technical Assistance Report No. 04-1TA, Baton Rouge, Louisiana, February 2004.
48. Roberts, Freddy, Mohammad, L. N., Qin, H., and Huang, B., “Comparative Performance of Rubber Modified Hot Mix Asphalt Under ALF Loading,” Louisiana Transportation Research Center, Report No. FHWA/LA-03/374, Baton Rouge, Louisiana, August 2003.
49. Mohammad, L. N., Daly, W., and Negulescu, I., “Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements, Louisiana Board of Regents, Louisiana Education Quality Support Funds, Final Report, June 2003.
50. Mohammad, L. N., Daly, W., and Negulescu, I., “Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements, Louisiana Board of Regents, Louisiana Education Quality Support Funds, Interim Report III, June 2002.
51. Mohammad, L. N., Titi, H., and Herath, A., “Effect of Soil Moisture Content and Density on the Resilient Modulus of Subgrade Soil Predicted by CPT,” Report No. FHWA/LA00/355, June 2002.
52. Mohammad, L. N., and Gokman R. , "Evaluation of the Fundamental Engineering Properties Bituminous Mixtures Containing Hydrated Lime," Louisiana Transportation Research Center, Report No. FHWA/LA-00/306, December 2000.
53. Mohammad, L. N., Daly, W., and Negulescu, I., “Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements, Louisiana Board of Regents, Louisiana Education Quality Support Funds, Interim Report II, June 2000.
54. Daly, W., Negulescu, I., Yeh, P., and Mohammad, L. N., Evaluation of Modified Asphalt Using Chlorinated and Maleated Waste Polymers, Louisiana Transportation Research Center, Report No. FHWA/LA-00/345, May 2000.
55. Mohammad, L. N., Titi, H., and Herath, A., “Investigation of the Applicability of Intrusion Technology to Estimate Resilient Modulus of Soils,” Report No. FHWA/LA00/332, April 2000.
56. Mohammad, L. N., and Huang, B., "Laboratory Evaluation of Stone Mastic Asphalt Pavement Mixtures," Louisiana Transportation Research Center, Report No. FHWA/LA-99/327, October 1999.
57. Mohammad, L. N., Daly, W., and Negulescu, I., “Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements, Louisiana Board of Regents, Louisiana Education Quality Support Funds, Interim Report I, June 1999.

58. Mohammad, L. N.

4. Mohammad, L. N., Abadie, C., and Nazzal, M, "Low-Cost and Environment-Friendly Asphalt-Treated Mixtures: Louisiana Tests Design." Featured Article on Research Pays Off. Transportation Research Board, TR New No. 283 , November-December, 2012, pp. 37-39.
5. Mohammad, L. N., "Eliminating Delamination in Overlays on Asphalt." Featured Article, Louisiana ASCE Journal, November 2011.
6. Mohammad, L. N., "Tack Coats – NCHRP Project 9-40 Update." Pennsylvania Asphalt Pavement Association, Vol. 9, No.3, Harrisburg, PA, 2008.
7. Moulthrop, J., McDaniel, R., McGennis, R., Mohammad, L. N., and Kluttz, R., "Asphalt Mixture Innovations." Featured Article, Transportation Research Board, TR New No. 253 "Highway Design and Construction: A 2020 Vision," 2007, pp. 20-23.
8. Mohammad, L. N., "Research Corner: Performance of Stone Mastic Asphalt Mixtures, Development of Large Stone Asphalt Mixture, and Evaluation of Loaded Wheel Tester for HMA Mixtures," The McGraw Hill Companies, Louisiana Contractors, June 2000.
9. Paul, H.R., and Mohammad, L. N., "U.S. and European Asphalt Technologies, A perfect Marriage," National Research Council, Transportation Research Board, TR News, Number 197, November/December 1997, pp. 24-25
10. Mohammad, L. N.



3. Mohammad, L. N., “Rational Approach for Durable and Sustainable Asphalt Mixtures: Design, Production, and In-service.” Presented at the Iraqi Professional Engineering Board meeting, May 11, 2024, Mustansiriyah University, Baghdad, Iraq (Invited Presentation).
4. Mohammad, L. N., “Asphalt Pavement: Environmental Stewardship vs. Sustainable Engineering.” Presented at the 2nd International Conference of Engineering Sciences, May 7-8, 2024, Mustansiriyah University, Baghdad, Iraq (Keynote Presentation).
5. Mohammad, L. N., “Louisiana’s Asphalt Sustainability Program.” Presented at the FHWA Climate Challenge – Training with Department of Transportation and Development, April 22-23, 2024, Baton Rouge, Louisiana. (Invited Presentation).
6. Mohammad, L. N., “The Pursuit of Sustainable Asphalt Mixtures.” Presented at the ASCE CI & CRC Joint Conference, March 20-23, 2024, Des Moines, Iowa. (Invited Presentation).
7. Mohammad, L. N., “Balancing Asphalt Mixtures Engineering Performance with Environmental Impacts.” Presented at the Southeast Asphalt User Producer Group Annual Meeting, November 14 – 15, 2023, Little Rock, Arkansas. (Invited Presentation).
8. Mohammad, L. N., “Louisiana’s Asphalt Sustainability Program.” Presented at the FHWA Asphalt Pavement and Materials Technical Feedback Group Meeting, October 17-18, 2023, Reno, Nevada. (Invited Presentation).
9. Mohammad, L. N., “Environmental Impact Analysis into Louisiana’s Balanced Asphalt Mixture Design: A case Study.” Presented at the Louisiana Civil Engineering Conference and Show October 4-5, 2023, New Orleans, Louisiana. (Invited Presentation).
10. Mohammad, L. N., “Rational Approach for Durable and Sustainable Asphalt Mixtures: Design, Production, and In-service.” Presented to Faculty Department of Road Engineering, Tongji University, July 11, 2023. (Invited Presentation).
11. Mohammad, L. N., [REDACTED] of Environmental Impact of Recycled Materials within Balanced Asphalt Mixture Design

15. Mohammad, L. N., “Asphalt Mixtures Containing PWM: Engineering performance tied to Sustainability.” Presented at the 2023 Construction Institute Summit, March 1 – 4, 2023, St. Louis, Missouri. (Invited Presentation).
16. Mohammad, L. N., “Louisiana's Efforts to Tie Balanced Mix Design (BMD) to Sustainability.” Presented at the FHWA BMD Peer Exchange meeting, March 1-2, 2023, Baton Rouge, LA. (Invited Presentation).
17. Mohammad, L. N., “Sustainability through Development of Life Cycle Information Models for Pavements in Louisiana.” Presented at the Louisiana Transportation Research Center Policy Committee Meeting, December 7, 2022, Baton Rouge, LA. (Invited Presentation).
18. Mohammad, L.N., “Research Activities on Pavement Sustainability and Resiliency.” Presented at the TRB AKM20 Standing Committee on Binders for Flexible Pavement Sustainability Subcommittee, September 23, 2022, (Virtual Invited Presentation).
19. Mohammad, L.N., “Development of Life Cycle Assessment Framework of Pavements in Louisiana.” Presented at the FHWA Climate Challenge Team,

27. Mohammad, L. N., "Asphalt Mixtures Moisture Damage: Conditioning and Testing Protocols." Presented at the 5th International Conference on Transportation Infrastructure and Materials, October 21 – 22, 2021, Changsha University of Science and Technology, Changsha, China (Virtual Keynote Lecture).
28. Mohammad, L. N., "Increased RAP Contents in Asphalt Mixtures: Fundamental Assessments." Presented at the 5th International Symposium on Frontiers of Road and Airport Engineering (iFRAE), July 12-14, 2021, Delft University of Technology, Delft, Netherlands. (Virtual Keynote Lecture).
29. Mohammad, L.N., "Assessments of Asphalt Mixtures' Cracking Tests at Intermediate Temperature: A Case Study." Presented at the International Conference on Civil and

39. Mohammad, L.N., "Effect of Bonding Quality of Tack Materials between Pavement Layers on Durability." Presented at the Annual Meeting of the Southeastern Asphalt User Producer Group November 19 – 21, 2019, Baton Rouge, Louisiana.
40. Mohammad, L.N., "Durable Flexible Pavements: Emerging Technologies and Trends." Presented at the 2019 GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, November 10 - 14, 2019, Cairo, Egypt, (Keynote Lecture).
41. Mohammad, L.N., "New Generation of Performance-Engineered Asphalt Mixture Design ." Presented at the 2019 GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, November 10 - 14, 2019, Cairo, Egypt, (Invited Workshop Lecture).
42. Mohammad, L.N., "Emerging Technology Trends Toward Durability: Improvement of Flexible Pavements." Presented at the 2019 Oklahoma Transportation Research Day, November 5, 2019, Midwest City, Oklahoma (Keynote Lecture).
43. Mohammad, L.N., "Design and Construction of Durable Flexible Pavements." Presented at the 29th Annual Louisiana Civil Engineering Conference & Show, September 25 -26, 2019, Kenner, Louisiana, (Invited Lecture).
44. Mohammad, L.N., "Emerging Trends Related to the Durability of Flexible Pavements." Presented at the 19th COTA International Conference of Transportation Professionals , July 6-8, 2019, Nanjing, China. (Keynote Lecture)
45. Mohammad, L.N., "Intelligent Approach to Durable Flexible Pavement." Presented at the TRC Workshop on Sensing and Artificial Intelligence for Transportation University of Science and Technology Beijing, July 05, 2019, Beijing, China. (Keynote Lecture)
46. Mohammad, L.N., "New Generation of Performance-Engineered Asphalt Mixture Design." Presented at the Shandong Transportation Institute, July 04, 2019, Jinan, China. (Keynote Lecture)
47. Mohammad, L.N., "Mixture Design and Construction Practices Affecting Durability of Flexible Pavements: Case Study." Presented at the 2019 International Conference on Transportation Infrastructure and Materials, July 02-04, 2019, Jinan, China. (Keynote Lecture)
48. Mohammad, L.N., "Design and Construction of Durable Flexible Pavements." Presented at the International Conference on Civil and Environmental Engineering Technologies, April 23-24, 2019, Kufa, Iraq. (Keynote Lecture)
49. Mohammad, L. N., "Development of A New Generation of Balanced Asphalt Mixture Design." Presented at the School of Transportation Engineering, University of Kufa, Kufa, Iraq, April 22, 2019. (Invited Lecture)
50. Mohammad, L. N., "Approaches to Design and Construct Durable Flexible Pavements. Presented at the LTRC Seminar Series: Durable Asphalt Pavement, Baton Rouge, LA, March 12, 2019. (Invited Lecture)

51. Mohammad, L. N., Shi, Y., and Copper, III, S., "Effect of Laboratory Aging on Asphalt Binders and Intermediate Temperature Cracking of Asphalt Mixtures" Presented at the Annual Meeting of the Southeastern Asphalt User Producer Group, Raleigh, North Carolina, November 12–15, 2018.
52. Mohammad, L. N., "Asphalt Mixture Additives – What is on the Horizon?" Association of Asphalt Paving Technologist Webinar, November 8, 2018. (Invited Webinar).
53. Mohammad, L.N., "Effect of Recycled Materials on Intermediate Temperature Cracking Performance of Asphalt Mixtures." Presented at the RILEM 252 Chemo-Mechanical Symposium, Southeast University, Braunschweig, Germany, September 17-18, 2018.
54. Mohammad, L.N., "New Generation of Performance-Engineered Asphalt Mixture Design." Presented at the School of Transportation Engineering, Southeast University, Nanjing, China, July 21, 2018.
55. Mohammad, L. N., Cooper, Jr., S., Cooper, III, S., Daly, W., Negulescu, I, and, Balamurugan, S., "Impact of Various Crumb Rubber Modifications on Asphalt Binder and Mixture Properties." Presented at the 55th Petersen Asphalt Research Conference, Laramie, WY, July 15-18, 2018.
56. Mohammad, L. N., "Effect of Asphalt Mixture Design and Construction on Density and Durability of Asphalt Pavements." Presented at the 4th Conference of the Middle East Society of Asphalt Technologists: Sustainable Asphalt Roads in the Middle East. Beirut, Lebanon, July 4 – 6, 2018.
57. Mohammad, L. N., "Influence of Asphalt Mixture Design and Construction on Density and Durability of Asphalt Pavements." Presented at the 3rd International Conference on Transportation Infrastructure and Materials: Smart and Sustainable Transportation Infrastructure (ICTIM), Tianjin, China, June 1 – 4, 2018. (Keynote Address).
58. Mohammad, L. N., "Development and Implementation of Performance-Engineered Asphalt Mixture Design." Presented at the College of Architecture and Civil Engineering, Beijing University of Technology, Beijing, China, May 31, 2018.
59. Mohammad, L. N., "Effect of Asphalt Mixture Design and Construction on Density and Durability of Asphalt Pavements." Presented at the FHWA Asphalt Mixture Expert Task Group Meeting, Fall River, MA, May 8-9, 2018.
60. Mohammad, L. N., "Impact of Asphalt Mixture Design and Construction on Density and Durability of Asphalt Pavements." Presented at the Louisiana Transportation Conference,

62. Cooper III, S., Mohammad, L. N., "Balanced Asphalt Mixture Design: Implementation Efforts and Success Stories." Presented at the 96th TRB Annual Meeting, Washington, D.C., January 7-11, 2018.

74. Mohammad, L. N., Cooper III, S., "Comparing the Volumetric and Mechanical Properties of Laboratory and Field Specimens of Asphalt Concrete." Presented at the Transportation Research Board Webinar, April 20, 2017. (Webinar Presentation).
75. Mohammad, L. N., "Sustainable Development: The Use of Sustainable Pavement Materials and Technologies in Infrastructure." Presented at the 1st International Workshop on Sustainability Innovation in Transportation Infrastructure, Knoxville, Tennessee, March 30 – 31, 2017.
76. Mohammad. L. N., Elseifi, M., Raghavendra, A., and M., "Hamburg Wheel-Track Test Equipment Requirements and Improvements to AASHTO T 324." Presented at the Montana Asphalt Institute Conference, Helena, Montana, February 28, 2017.
77. Mohammad. L. N., Elseifi, M, and Cooper, III, S., "Comparison of Volumetric Properties Between Laboratory and Field," Presented at the Asphalt Mixture Volumetrics – Applying Reasonableness and Avoiding Pitfalls Workshop, 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
78. Mohammad. L. N., Elseifi, M, and Das, R., "The Effect of Tack Coats on Asphalt Pavement

86. Mohammad. L. N., "Development of Specifications and Implementation of Performance Tests During Asphalt Mixture Design: Louisiana's Approach." Presented at the 2016 AAPT Annual Meeting, Indianapolis, Indiana, March 13-16, 2016.
87. Mohammad. L. N., "Development and Implementation of Balanced Asphalt Mixture Design." Presented at CI Summit, Orlando, Florida, March 9-12, 2016.
88. Mohammad. L. N., "Evaluating Tack Coat Strength: The AASHTO TP 114 Test Method." Presented at the Rocky Mountain Asphalt Conference and Equipment Show, Denver, Colorado, February 24-26, 2016.
89. Mohammad. L. N., "Effects of Temperature Segregation on the Quality of Asphalt Pavements." Delivered at the National Asphalt Pavement Association Talks Webinar Series, January 20, 2016.
90. Mohammad. L. N., "Evaluation of Asphalt Mixture Cracking Resistance Using the Semi-Circular Bend Test at Intermediate Temperature." Presented at the Performance Testing to Characterize Fatigue Cracking of Asphalt Mixtures Workshop, 95th TRB Annual Meeting, Washington, D.C., January 10-14, 2016.
91. Mohammad. L. N., "Application of Performance Tests During Asphalt Mixture Design." Presented at the Innovations in Asphalt Mix Design Procedures Workshop, 95th TRB Annual Meeting, Washington, D.C., January 10-14, 2016.
92. Mohammad. L. N., "Implementation of Performance Tests During Asphalt Mixture Design Containing Recycled Materials." Presented at the 4th IRF Middle East Regional Congress and Exhibition, Riyadh, Saudi Arabia, December 15-17, 2015.
93. Mohammad. L. N., "NCHRP Project 9-48: Field versus Laboratory Volumetrics and
- 936 Mohammad. L. N.,

Sustainability in Transportation, Fairbanks, Alaska, August 2-5, 2015 (Keynote Presentation).

99. Mohammad, L. N., "Sustainable Development: Material, Design, and Performance." Presented at the 6th International Conference on Bituminous Mixtures & Pavements, Thessaloniki, Greece, June 10-12, 2015 (Keynote Presentation).
100. Mohammad, L. N., "Development and Implementation of a Balanced Mixture Design in Louisiana." Presented at the 4th International Transportation Ph.D. Students Symposium, Harbin, China, May 31-June 1, 2015. (Keynote Presentation).
101. Mohammad, L. N., "Fatigue/Fracture tests to predict cracking." Presented at the 2015 TRB AFK10 General Issues in Asphalt Technology Committee Meeting, Woods Hole, MA, May 13-14, 2015.
102. Mohammad, L. N., "Cracking Test: Development of SCB Test at Intermediate Temperature." Presented at the SCB Test at Intermediate Temperature Training Workshop, Baton Rouge, Louisiana, April 16, 2015.
103. Mohammad, L. N., "LTRC's Asphalt Research Activities." Presented at the Asphalt Institute Spring Meeting, New Orleans, Louisiana, April 16, 2015.
104. Mohammad, L. N., "Intermediate Temperature Fracture Properties of Asphalt Mixtures Containing RAS: Impact of Recycling Agents." Presented at the FHWA Asphalt Binder Expert Task Group, Fall River, MA, April 9, 2015.
105. Mohammad, L. N., "Design Consideration of Asphalt Mixtures Containing RAP and/or RAS: Asphalt Rejuvenation." Presented at the 2015 AAPT Annual Meeting, Portland, Oregon, March 8-11, 2015.
106. Mohammad, L. N., "NCHRP Project 9-40A: Field Implementation of the LISST." Presented at the 42nd Annual Rocky Mountain Asphalt Conference, Denver, Colorado, February 25 – 27, 2015.
107. Mohammad, L. N., "Performance Tests of Asphalt Mixtures." Presented at the 42nd Annual Rocky Mountain Asphalt Conference, Denver, Colorado, February 25 – 27, 2015.
108. Mohammad, L. N., "SCB Test at Intermediate Temperature." Presented at the NCHRP 9-57 Cracking Test Webinar, February 3, 2015.
109. Mohammad, L. N., "NCHRP Project 9-40A: Field Implementation of the LISST." Presented at the 94th TRB Annual Meeting, Washington, D.C., January 11-15, 2015.
110. Mohammad, L. N., "Overview of the Use of Cracking Tests in the Determination of Asphalt Mixture Durability." Presented at the 94th TRB Annual Meeting, Washington, D.C., January 11-15, 2015.
111. Mohammad, L. N., "All You Ever Needed to Know About Tack Coat!" Presented at the 52nd Paving and Transportation Conference, Albuquerque, New Mexico, January 5-6, 2015.

112. Mohammad, L. N.

136. Mohammad, L. N., "Asphalt Mixture Design and Analysis Seminar ." Presented at the Pavement Engineering Seminar Series, ASCE TDI – Louisiana Chapter, New Orleans, LA, January 31, 2013.
137. Mohammad, L. N., "Importance of Layer Bonding Through Tack Coat Materials." Presented at the Workshop on Enhancing the Durability of Asphalt Pavements 92nd Annual Meeting of the Transportation Research Board , January 13- 17, 2013.
138. King, B., Mohammad, L. N., "Louisiana’s Experience with Warm Mix Asphalt Mixtures." Presented at the 92nd Annual Meeting of the Transportation Research Board, Washington D.C., January 13-17, 2013.
139. 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 2012 SEAUPG Annual Meeting, Hilton Head, South Carolina, November 12-15, 2012.
140. Mohammad, L. N., “Mechanistic Evaluation of Tack Coat Materials.” Presented at the Asphalt Emulsion Manufacturers Association 2012 International Symposium on Asphalt Emulsion Technology, Arlington, Virginia, October 10-12, 2012.
141. Mohammad, L. N., Cooper, Jr. S., “Laboratory Performance Asphalt Mixtures Containing High RAP Content with Crumb Rubber Additives.” Presented at Sustainable Materials for Pavement Infrastructure: Use of Waste Tires in Asphalt Mixtures Seminar, Baton Rouge, Louisiana, September 5, 2012.
142. Mohammad, L. N., Cooper, Jr. S., “Laboratory Performance of HMA Mixtures Containing High RAP Content with Crumb Rubber Additives.” Presented at the 21st Century Asphalt Pavements Conference, Cincinnati, Ohio, June 19-20 2012.
143. Mohammad, L. N., “Development of a Louisiana’s Balanced Asphalt Mixture Design.” Presented at the 53rd Louisiana Asphalt Pavement Association Convention, Point Clear, Alabama, May 30-June 3 ,2012. (*Invited Guest Speaker*)
144. Mohammad, L. N., “Asphalt Research Program at the Louisiana Transportation Research Center.” Presented at the 2012 Transportation Research Board AFK 10 Committee Meeting, Baton Rouge, Louisiana, April 11-12, 2012.
145. Mohammad, L. N., “The Importance of Tack Coat Material to Performance: Evaluation of Interlayer Bonding.” Presented at the Rocky Mountain Asphalt User/Producer Group Meeting, Henderson, Nevada, March 27-29, 2012.
146. Mohammad, L. N., “NCHRP Project 9:40: Optimization of Tack Coat for HMA Placement: Recommendations to AASHTO SOM.” Presented at the FHWA Asphalt Mixture Task Group Meeting, Baton Rouge, Louisiana, March 19-20, 2012.
147. Mohammad, L. N., “Effect of Tack Coat Materials on Interlayer Bonding.” Presented at the 13th Annual Meeting of the Association of Modified Asphalt Producers, Albuquerque, New Mexico, February 7-9, 2012.

148. Mohammad, L. N., King, B., “NCHRP Project 9-40: Importance of Interface Bond Strength Through Tack Coat.” Presented at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.
149. Mohammad, L. N., “NCHRP Project 9-40: Importance of Interface Bond Strength Through Tack Coat.” Presented at the 11th Annual Tennessee Quality Asphalt Initiative Conference, Nashville, Tennessee, January 18, 2012.
150. Mohammad, L. N., “Results of NCHRP Project 9-40: Tacking Your Way to Performance.” Presented at the TRB Webinar: Findings of NCHRP Project 9-40 on the Optimization of Tack Coat for HMA Placement, January 12, 2012.
151. Mohammad, L. N.

160. Mohammad, L. N., "NCHRP 9-40 Optimization of Tack Coat Materials." Presented at the 38th Annual Asphalt Emulsion Manufacturers Association Meeting, Tucson, Arizona, February 25, 2011.
161. Mohammad, L. N., "Applications of Laboratory Performance Tests in the Design of Asphaltic Concrete Mixture." Presented at the 2011 Louisiana Transportation Conference, Baton Rouge, Louisiana, January 9, 2011.
162. Mohammad, L. N., "Graduate Studies at Louisiana State University." Presented at the University of Jordan, Amman, Jordan, December 20, 2010.
163. Mohammad, L. N., "Establishing a Sustainable Materials Research Program for Pavement Engineering." Presented at the Revitalizing Research in Kurdistan International Conference, Erbil, Iraq, December 14-16, 2010.
164. Mohammad, L. N., and Cooper, S., "Laboratory Mechanistic Evaluation of HMA Mixtures Containing High RAP Content with Crumb Rubber Additives." Presented at the 2010 SEAUPG Annual Meeting, Oklahoma City, Oklahoma, December 6-8, 2010.
165. Mohammad, L. N., "NCHRP Project 9-40: Optimization of Tack Coat Materials." Presented at the 2010 SEAUPG Annual Meeting, Oklahoma City, Oklahoma, December 6-8, 2010.
166. Mohammad, L. N., "Results of NCHRP 9-40: Tacking Your Way to Performance." Presented

173. Mohammad, L. N., "Rubber Spotlight: Louisiana's Experience with the Use of Waste Tires in Asphalt Mixtures." Presented at the 2010 Institute of Scrap Recycling Industries, San Diego, California, May 4-8, 2010.
174. Mohammad, L. N., "Sustainable Materials for Pavements." Presented at the 2010 Transportation Research Board AFK 10 Committee Meeting, Phoenix, Arizona, April 7-8, 2010.
175. Nazzal, M., and Mohammad, L. N., "Estimation of the Resilient Modulus of Subgrade Soils Using Falling Weight Deflectometer." Presented at the LTRC Seminar Series: 2010 Transportation Research Board Paper Presentations, Baton Rouge, Louisiana, March 23-24, 2010.
176. Mohammad, L. N.

185. Cooper, S., and Mohammad, L. N., "Characterization of HMA Mixtures Containing High Recycled Asphalt Pavement Content and Crumb Rubber Additives." Presented at the 209 Louisiana Transportation Conference, Baton Rouge, Louisiana, February 8-11, 2009.
186. Mohammad, L. N., "Effect of Tack Coat Materials and Application Rates on the Interface Bond Strength." Presented at the 2009 Louisiana Transportation Conference, Baton Rouge, Louisiana, February 8-11, 2009.
187. Mohammad, L. N., "Permanent Deformation Analysis of HMA Mixtures Using Simple Performance Tests." Presented at the 4th International Gulf Conference on Roads, Doha, Qatar , November 11-13, 2008.
188. Mohammad, L. N., "NCHRP Project 9-40 Update: Optimization of Tack coat for HMA Placement." Presented at the 2008 SEAUPG Annual Meeting, Birmingham, Alabama, November 17-20, 2008.
189. Mohammad, L. N., and Cooper, S., "HMA Mixtures Containing High RAP and Crumb Rubber Additives." Presented at the Superpave Mixture Design Task Group Meeting , 2008 SEAUPG Annual Meeting, Birmingham, Alabama, November 17-20, 2008.
190. Mohammad, L. N., "Tack Coat Quality and Interface Bond Testing." Presented at the 49th Louisiana Asphalt Pavement Association Convention, Sandestin, Florida, June 4-8, 2008. (*Invited Guest Speaker*)
191. Mohammad, L. N., Nazzal, M., and Austin, A., "Laboratory Characterization of Asphalt-Treated Granular Bases." Presented at the 16th Annual International Center for Aggregate Research Symposium, Austin, Texas, May 12 - 14, 2008.
192. Mohammad, L. N., Research Update on NCHRP Project 9-40 on Optimization of Tack Coat for HMA Placement." Presented at the 35th Annual Meeting of the Asphalt Emulsion manufacturer Association, San Jose del Cabo, Mexico, February 19-23, 2008.
193. Mohammad, L. N., "Effect of Tack Coat Material type and Application Rate on the Bond Strength." Presented at the 9th Annual Meeting of the Association of Modified Asphalt Producers. Austin, Texas, February 11 - 13, 2008.
194. Mohammad, L. N., "Laboratory Evaluation of HMA Mixtures Containing CRM Binder." Presented at the LDOTD PG 82-22 RM Asphalt Binder Specification Meeting, Baton Rouge, Louisiana, December 12, 2007.
195. Mohammad, L. N., Nazzal, M., Austin, A., "Evaluation of Low Cost Asphalt Treated Base Mixtures." Presented at the 2007 SEAUPG Annual Meeting, San Antonio, Texas, November 13-15, 2007.
196. Mohammad, L. N., and Kabir M., "Evaluation of Superpave Mixtures Containing Hydrated Lime." Presented at the Superpave Mixture Design Task Group Meeting, 2007 SEAUPG Annual Meeting, San Antonio, Texas, November 13-15, 2007.

197. Mohammad, L. N., “Review of the Development, Implementation and Performance of Superpave Mixtures.” Presented to the Aswan Faculty of Engineering , South Valley University, Aswan, Egypt, July 19, 2007.
198. Mohammad, L. N., “The Design and Performance of Perpetual pavements.” Presented at the 2nd International Symposium on Pavement Engineering, Hefei, Anhui , China, June 20 – June 23, 2007. (*Key Note Speaker*)
199. Mohammad, L. N., “Application of Strength Tests for Permanent Deformation of HMA Mixtures.” Presented at the 48th Louisiana Asphalt Pavement Association Convention, Sandestin, Florida, June 6-10, 2007. (*Invited Guest Speaker*)
200. Mohammad, L. N., “Performance of Stone & RAP Interlayers Under Accelerated Load Testing.” Presented at the 2007 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 12–14, 2007.
201. Mohammad, L. N., “Performance of HMA Mixtures with Aggregate Structures Designed Using the Bailey Method.” Presented at the 2007 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 12–14, 2007.
202. Nazzal, M, and Mohammad, L. N., “Reliability of Material Input Parameters for the Implementation of the MEPDG.” Presented at the 2007 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 12–14, 2007.
203. Mohammad, L. N., “Characterization of Fracture Resistance of Superpave Mixture Using a Semi-Circular Fracture Tests.” Presented at the 2007 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 12–14, 2007.
204. Mohammad, L. N., “Locking Point Concept in HMA Mixture Design.” Presented at the 2006 Southeastern Asphalt User Producer Group Annual Meeting, Wilmington, North Carolina, November 14-16, 2006.
205. Mohammad, L. N., “ The Bailey Method and Locking Point in Superpave Mixture Design.” Presented at the 47th Annual Convention of the Louisiana Asphalt Pavement Association,

209. Mohammad, L. N., “A look at the Bailey Method and Locking Point Concepts in Superpave Mixture Design.” Presented at the Transportation Research Board Workshop on Practical Approaches to Design of Hot Mix Asphalt, Washington, D.C., January 22, 2006.
210. Mohammad, L. N., “Tools to Improve HMA Mixture Design.” Presented at the 2005 Southeastern Asphalt User Producer Group Annual Meeting, Nashville, Tennessee, December 12-15, 2005.
211. Mohammad, L. N., “Review of the Development, Implementation and Performance of Superpave Mixtures.” Presented at the Fifth NACOTA China International Transportation Conference, Chang’An University, Xi’an, Shaanxi , China, June 25 – June 26, 2005. (*Key Note Speaker*)
212. Mohammad, L. N., “Performance of RAP and Stone Interlayer Under Accelerated Load Testing.” Presented at the 46th Annual Convention of the Louisiana Asphalt Pavement Association, Pointe Clear, AL, June 1-5, 2005. (*Invited Guest Speaker*)
213. Mohammad, L. N., “Evaluation of Stone/RAP Interlayers Under ALF Loading: A Status Update.” Presented at the Louisiana ALF Technical Advisory Committee Meeting, Baton Rouge, Louisiana, March 31, 2005.
214. Mohammad, L. N., “Optimization of Asphalt Mixture Design for the Louisiana ALF Test Sections.” Presented at the Louisiana ALF Technical Advisory Committee Meeting, Baton Rouge, Louisiana, March 31, 2005.
215. Mohammad, L. N., “Measurement and Prediction of the Permeability of Hot-Mix Asphalt Mixtures.” Presented at Louisiana Asphalt Technology Conference, Shreveport, Louisiana, February 23-24, 2005.
216. Mohammad, L. N., “Factors Affecting HMA Mixtures’ Densification.” Presented at Louisiana Asphalt Technology Conference, Shreveport, Louisiana, February 23-24, 2005.
217. Mohammad, L. N.

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222. Mohammad, L. N., “Strength Testing of HMA Mixtures.” Presented at the FHWA Mobile Asphalt Trailer “Kick-off” Meeting, Baton Rouge, LA, March 24, 2004.
 223. Mohammad, L. N., “Resilient Modulus of Cement-Treated Cohesive Soils.” Presented at the Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 16-18, 2004.
 224. Mohammad, L. N., “Evaluation of the Variability of Air Voids and Structural Properties of Plant Produced HMA Mixtures.” Presented at the Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 16-18, 2004.
 225. Mohammad, L. N., “Methodology for Evaluation of Interlayer Bond Strength.” Presented at the 44th Annual Convention of the Louisiana Asphalt Pavement Association, Pointe Clear, AL, June 25-29, 2003. (*Invited Guest Speaker*)
 226. Mohammad, L. N., “A Review of Bond Coats in the USA.” Presented at the Asphalt Emulsion Manufacturing Association 30

235. Mohammad, L. N., “Evaluation of Crumb Rubber Asphalt Pavements Through Accelerated Loading Facility.” Presented at the Louisiana ALF Technical Advisory Committee Meeting, September 21, 2000, Baton Rouge, Louisiana.
236. Mohammad, L. N., “Permeability of Superpave Hot Mix Asphalt Mixtures.” Presented at the 2000 ASCE/ACI Louisiana Civil Engineering Conference, September 7-8, 2000, New Orleans, Louisiana.
237. Mohammad, L. N., “Evaluation of Superpave Mixes in Louisiana: Laboratory Fundamental Characterization and Field Performance.” Presented at the 59th Annual SASHTO Conference, August 25-29, 2000, New Orleans, Louisiana.
238. Mohammad, L. N., Raghavendra A., Huang, B., and Ortiz, O., “Fundamental Engineering Characterization of Superpave Mixtures in Louisiana.” Presented at the 40th Annual Convention of the Louisiana Asphalt Pavement Association, Pointe Clear, AL, June 16-20, 1999. (*Invited Guest Speaker*)
239. Mohammad, L. N., “Manual vs. Automated Rut Depth Measurements of the Asphalt Pavement Analyzer.” Presented at the 1998 Annual Meeting of the SEUPG/APA Users Group, Little Rock, AR, November 18-20, 1998.
240. Mohammad, L. N., “Development of Superpave Technology and its Implementation in Louisiana.” Presented at the Shanghai Municipal Engineering Design Institute and the Shanghai Highway and Transportation Society, Shanghai, P. R. China, May 11, 1998.
241. Mohammad, L. N., “Development of Superpave Technology and its Implementation in Louisiana.” Presented at the Department of Road & Traffic Engineering, Tongji University, Shanghai, P. R. China, May 8, 1998.
242. Mohammad, L. N., “Development of Superpave Technology and its Implementation in Louisiana.” Presented at the Road Teaching & Research Center, Department of Highway, Xi’an Highway University, Xi’an, P. R. China, May 6, 1998.
243. Mohammad, L. N.”Update on Rut Depth Measurements Using the Asphalt Pavement Analyzer.” Presented at the at the 1998 Annual Meeting of the SEUPG/APA Users Group Meeting, Little Rock, AR, November 18-20, 1998.
244. Mohammad, L. N., "Performance of Louisiana Superpave Mixture ." Presented at the 39th Annual Convention of the Louisiana Asphalt Pavement Association, Point Clear, Alabama, June 10-15, 1998. (*Invited Guest Speaker*)
245. Mohammad, L. N., “The Use of Quality Level Analysis in QC/QA in HMA Pavements.” Presented at LADOTD District LAB Engineers Meeting, Baton Rouge, Louisiana, February 18-19, 1998.
246. Mohammad, L. N., “Implementation of Superpave Technology in Louisiana.” Presented at the 2nd Louisiana Joint Engineering Societies Conference, Baton Rouge, Louisiana, February 5-6, 1998.

247. Mohammad, L. N., “Superpave™ Technology: A Brief Overview and LADOTD Training Activities.” Presented at the Louisiana DOTD Superpave™ Asphaltic Concrete Hot Mix Meeting, Baton Rouge, Louisiana, August 20, 1997.
248. Mohammad, L. N., “Introduction to Superpave™ Technology.” Presented at the LADOTD District LAB Engineers Meeting, Baton Rouge, Louisiana, August 7-8, 1997.
249. Mohammad, L. N., "Laboratory Evaluation of SMA Mixes in Louisiana." Presented at the 38th Annual Convention of the Louisiana Asphalt Pavement Association, Point Clear, Alabama, June 4-8, 1997.
250. Mohammad, L. N., Louisiana’s Research Experience with Hydrated Lime in HMA Mixtures.” Presented at the Effective Use of Lime in Highway Construction Seminar, Baton Rouge, Louisiana April 9, 1997, and Alexandria, Louisiana, April 10, 1997.
251. Mohammad, L. N., “Overview of Research Proposal on Comparative Performance of Conventional and Rubberized Hot Mix Under Accelerated Loading.” Presented at the Transportation Research Board A2D05 Committee Meeting, Baton Rouge, Louisiana, April 21-23, 1996.
252. Mohammad, L. N., "Advances in Non-Conventional Hot Mix Asphalt Mixtures.” Presented at the 37th Annual Convention of the Louisiana Asphalt Pavement Association, Orange Beach, Alabama, January 24-27, 1996. (*Invited Guest Speaker*)
253. Mohammad, L. N., "Asphaltic Concrete Pavement Research at LTRC." Presented at the 37th Annual Convention of the Louisiana Asphalt Pavement Association, Conroe, Texas, March 8-11, 1995. (*Invited Guest Speaker*)

Others

1. Pant, S., Akentuna, M., Mohammad, L. N., and Cooper, Jr., S. “Field Evaluation of Crumb Rubber Modified Hot Mix Asphalt Pavement Sections in Louisiana. Presented at the 2023 AAPT Annual Meeting, September 25-28, 2023, San Diego, California.
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15. AbuFarsakh, R., Arce, G, Hassan, M., Huang, O., Radovic, O., Rupnow, T., Mohammad, L. N., and Sukhishvili, “Novel Metakaolin Based Engineered Geopolymer Composites.” Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C.,

25. Kim, M., Cooper, Jr., S., Mohammad, L. N., Baumgardner, G., "Asphalt Mixtures Containing RAS and/or RAP: Relationships amongst Binder Composition Analysis and Mixture Low Temperature Cracking Performance." Presented at the 2018 AAPT Annual Meeting, Jacksonville, FL, March 18-21, 2018.
26. Balamurugan, S., Mohammad, L. N., Daly, W., Negulescu, I., Cooper, III, S., Cooper, Jr., S., Baumgardner, G., "Impact of Various Crumb Rubber Modifications on Asphalt Binder and Mixture Properties." Presented at the 2018 AAPT Annual Meeting, Jacksonville, FL, March 18-21, 2018.
27. Shen, S., Zhang, W., Wu, S., Mohammad, L. N., Muhunthane, M., "Long-term Field Performance of Flexible Pavements Using Warm Mix Asphalt Technologies." Presented at the 2018 AAPT Annual Meeting, Jacksonville, FL, March 18-21, 2018.
28. Cao, W., Mohammad, L. N., Barghabany, P., Cooper III, S., "Comparison of Asphalt Mixtures Crack Resistance at Intermediate Temperature Using Advanced Test Methods and Theories." Presented at the 97th Annual Meeting of Transportation Research Board, Washington, D.C., January 7-11, 2018.
29. Das, R., Mohammad, L. N., Elseifi, M., Cao, W., Cooper Jr, S.B., "Development and Validation of a Model to Predict Interface Bonding between Pavement Layers." Presented at the 97th TRB Annual Meeting, Washington, D.C., January 7-11, 2018.
30. Kim, M., Mohammad, L. N., Jordan, T., Cooper III, S., "Fatigue Performance of Asphalt Mixture Containing Recycled Materials and Warm-Mix Technologies Under Accelerated Loading and Four Point Bending Beam Test." Presented at the 97th Annual Meeting of the Transportation Research Board, Washington, D.C., January 7-11, 2018.
31. You, T., Shi, Y., Mohammad, L. N., Cooper III, S., "Laboratory Performance of Asphalt Mixtures Containing Re-refined Engine Oil Bottoms (REOB) Modified Asphalt Binders." Poster presented at the 96th TRB Annual Meeting, Washington, D.C., January 7-11, 2018.
32. You, T., Balamurugan, S., Nazzal, M., Mohammad, L. N., Negulescu, I., Daly, W., "Rheological, Chemical, Mico-Mechanical, and Mechanical Properties of REOB Modified Binders." Poster presented at the 96th TRB Annual Meeting, Washington, D.C., January 7-11, 2018.
33. Mohammad, L. N., Elseifi, M. A., Cao, W., Raghavendra. A., Ye, M., "Evaluation of Various Hamburg Wheel-Tracking Devices and AASHTO t 324 Specification for Rutting Testing of Asphalt Mixtures." Presented at the 2017 AAPT Annual Meeting, Newport Beach, CA, March 19-22, 2017.
34. Cao, W., Mohammad, L. N., Elseifi, M., "Assessing the Effects of RAP, RAS, and WMA on Fatigue Performance of Asphalt Mixtures and Pavements Using the Viscoelastic Continuum Damage Approach." Presented at the 2017 AAPT Annual Meeting, Newport Beach, CA, March 19-22, 2017.
35. Shirzad, S., Aguirre, M., Bonilla, L., Elseifi, M., Cooper, Jr., S., and Mohammad, L. N., "Performance and Cost Effectiveness of Flexible Pavement containing Recycled Asphalt

Shingles Using the Mechanistic-Empirical Approach.” Presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.

36. Aguirre, M., Hassan, M., Shirzad, S., Mohammad, L. N., and Cooper, Jr., S., “Performance of Asphalt Rejuvenators in Hot Mix Asphalt Mixtures Containing Recycled Asphalt Shingles.” Presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.

45. Zhang, W., Shen, S., Wu, S., and Mohammad, L. N., “Long-Term Field Aging of Warm-Mix and Hot-mix Asphalt binders.” Poster presented at the 96th Annual Meeting of the 4 “LongTransp6f the

Asphalt Mixtures.” Presented at the 94th TRB Annual Meeting, Washington D.C., January 11-15, 2015.

67. Elseifi, M., Mohammad, L. N., and Hassan M., “A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt.” Poster Presentation at the 2012 NSF CMMI Engineering Research and Innovation Conference, Boston, Massachusetts, July 9-12, 2012.
68. Mohammad, L. N., Kim, M., Elseifi, M., “Characterization of Asphalt Mixture’s Fracture Resistance Using the SCB Test.” Presented at the 7th RILEM Conference on Cracking in Pavements, Delft, The Netherlands, June 20-22, 2012.
69. 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.
70. Mohammad, L. N.

- Presentation at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.
79. 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.
 80. Mohammad, L. N., Nazzal, M., "Performance Evaluation & Environmental Impact Assessment Of Asphalt Treated Mixtures Used In Low-Volume Roads." Presented at the 10th International Conference on Low Volume Roads, Lake Buena Vista, Florida, July 24-27, 2011.
 81. Mohammad, L. N., Elseifi, M., Patel, N., "Field Evaluation of Tack Coat Materials and Application Rates." Presented at the 5th International Conference "Bituminous Mixtures and Pavements," Thessaloniki, Greece, June 1-3, 2011.
 82. Elseifi, M., Mohammad, L. N., Cooper, S., "Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies." Presented at the 2011 AAPT Annual Meeting, Tampa, Florida, March 27-30, 2011.
 83. Wasiuddin, N., Saltibus, N., and Mohammad, L. N., "Effects of a Wax-Based Warm Mix Additive on Cohesive Strengths of Asphalt Binders." Presented at the 1st ASCE T&DI Integrated Transportation & Development for a Better Tomorrow, Chicago, IL, March 13-16, 2011.
 84. 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.
 85. Mohammad, L. N., Hassan, M., "Effects of Tack Coat Shear Bond Characteristics on Pavement Performance at the Interface." Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.
 86. Wasiuddin, N., Saltibus, N., and Mohammad, L. N., "A Novel Moisture Conditioning Method for Adhesive Failure of Hot and Warm Mix Asphalt Binders." Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.
 87. Dylla, H., Hassan, M., Schmitt, M., Rupnow, T., Mohammad, L. N., Wright, E., "Effects of Roadway Contaminants on Titanium Dioxide Photodegradation of NOx." Presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C., January 23-27, 2011.
 88. 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.
 89. 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.
90. Mohammad, L. N., Bae, A., Elseifi, M., and Patel, N., "Factors that Influence the Performance of Interface Shear Strength of Pavement Interlayers." Presented at the 24th Australian Road Research Board Conference, Melbourne, Australia, October 12-15, 2010.
91. 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.
92. Mohammad, L. N., Nazzal, M., and Austin, A., "Evaluation of a New Generation of Asphalt Treated Mixtures." Presented at the GeoShanghai 2010 International Conference, Shanghai, China, June 3-5, 2010.
93. Dylla, H., Hassan, M. M., Mohammad, L. N., and Rupnow, T., "Evaluation of the Environmental Effectiveness of Titanium Dioxide Photocatalyst Coating for Concrete Pavements." Presented at the 89th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C., January 10-14, 2010.
94. Hassan, M. M., Dylla, H., Mohammad, L. N., and Rupnow, T., "Effect of Application Methods on the Effectiveness of Titanium Dioxide as a Photocatalyst Compound to Concrete Pavement." Presented at the 89th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C., January 10-14, 2010.
95. Bae, A., Mohammad, L. N., and Button, J., "Effects of Temperature on the Interface Shear Strength of Emulsified Tack Coats and Its Relationship to Rheological Properties." Presented at the Transportation Research

101. Mohammad, L. N., Bae, A., Elseifi, M., Button, J., and Scherocman, J., “Development of Pull-Off Test Device and Methodology to Evaluate the Bond Strength of Tack Coat Materials in the Field.” Presented at the 88th Annual Meeting of the Transportation Research Board, Washington, D.C., January 11-15, 2009.
102. Abu-Farsakh, M., Nazzal, M., and Mohammad, L. N., “2D Finite Element Analysis To Evaluate The Performance Of Geogrid Base Reinforcement In Weak Flexible Pavement Structures.” Presented at the 88th Annual Meeting of the Transportation Research Board, Washington, D.C., January 11-15, 2009.
103. Mohammad, L. N., Saadeh, S., and, Kabir Md., “ Evaluation of Fracture Properties of Hot Mix Asphalt.” Presented at the 6th RILEM International Conference on Cracking in Pavements. Chicago, Illinois, June 16-18, 2008.
104. Mohammad, L. N., Saadeh, S., and Cooper S., “Evaluation of Asphalt Mixtures Containing Sasobit Warm Mix Additive.” Presented at the GeoCongress 2008: The Challenge of Sustainability in the Geoenvironment, New Orleans, Louisiana, March 9-12, 2008.
105. Mohammad, L. N., and Saadeh, S., “Performance Evaluation of Stabilized Base and Subbase Material.” Presented at the GeoCongress 2008: The Challenge of Sustainability in the Geoenvironment, New Orleans, Louisiana, March 9-12, 2008.
106. Mohammad, L. N., Saadeh, S., Kabir, Md., Othman, A., and Cooper, S., “Characterization of Louisiana Asphalt Mixtures Using Simple Performance Tests.” Presented at the 87th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13-17, 2008.
107. Nazzal, M., Mohammad, L. N., Gaspard, K., “Development of Resilient Modulus Prediction Models for Louisiana Subgrade Soils.” Presented at the 87th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13-17, 2008.
108. Mohammad, L. N., Saadeh, S., “Evaluation Of Rutting Susceptibility Of Superpave Mixtures.” Presented at the 5th International Symposium on Maintenance & Rehabilitation of Pavements. Park City, Utah, August 8-10, 2007.
109. Mohammad, L. N., Saadeh, S., Zhang, C., Cooper, S, Abadie, C., and Khattak, J., “ CompM.5 30e.8 e3r 8J27 9,c Cog, C., Cooper, S, Abadie, C., and Khattak, 5ATunnnnnnnnnE6-

Conference on Accelerated Pavement Testing, Minneapolis, MN, September 26-29, 2004.

124. Nazzal, M., Abu-Farsakh, M., Alshibli, K., and Mohammad, L. N., "Evaluation the Potential use of a Portable LFWD for Characterizing Pavement Layers and Subgrades." Presented at the ASCE 2004 Geo-Institute Conference on Geotechnical Engineering and Transportation Projects, Los Angeles, CA, July 27-31, 2004..
125. Mohammad, L. N., Wu, Z., and Abadie, C., "Sensitivity of Mixture Performance Properties to Changes in Asphalt Mixture Type: Case Study." Presented at the ASCE 2004 Geo-Institute Conference on Geotechnical Engineering and Transportation Projects, Los Angeles, CA, July 27-31, 2004
126. Mohammad, L. N., Wu, Z., and Aglan, M., "Characterization of Fracture and Fatigue Resistance of Recycled Polymer-Modified Asphalt Pavements." Presented at the RILEM: 5th International Conference on Cracking in Pavements, Limoges, France, May 5-8, 2004.
127. Mohammad, L. N., Wu, Z., Zhang, C., Khattak, M.J., Abadie, C., "Variability of Air Voids and Mechanistic Properties of Plant Produced Asphalt Mixtures." Presented at the 83rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 11-15, 2004.
128. Mohammad, L. N., Wu, Z., Raghavendra, A., and Abadie, C., "Comparison of Aggregate Gradation and Mixture Physical Properties to Performance Tests of Coarse-Graded Superpave Mixtures in Louisiana." Presented at the Annual meeting of the Association of Asphalt Paving Technologists, Baton Rouge, Louisiana, March 8 – 10, 2004.
129. Mohammad, L. N., Wu, Z., Wang, L., and Mull, M., "Characterization of Fracture Resistance of Superpave Mixture Using a Semi-Circular Fracture Tests." Presented at the ASTM Symposium on Performance Tests for Hot Mix Asphalt including Fundamental and Empirical Procedures, Tampa, Florida, December 9, 2003.
130. Mohammad, L. N., Huang, B., Robert, F., and Rasoulian M., "Performance of Crumb Rubber Asphalt Pavement Through Accelerated Loading." Presented at the International Conference on Highway Pavement Data Analysis & Mechanistic Design Applications, Columbus, OH, September 8-10, 2003.
131. Daly, B., Mohammad, L. N., Negulescu, I., and Wu, Z., "Can Polymer Modified Asphalt be Recycled?" Presented at the 2003 Aging of Pavement Asphalts Symposium, Laramie, WY, July 16-18, 2003.
132. Mohammad, L. N., Wu, Z., Daly, B., and Negulescu, I., "Fatigue Performance of Asphalt Mixtures Containing Recycled Polymer-Modified Cements." Presented at the Third International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control, Guimaraes, Portugal, July 7-10, 2003.
133. Mohammad, L. N., Negulescu, I., Wu, Z., Daranga, C., Daly, W., Abadie, C., "Investigation of the Use of Recycled Polymer Modified Asphalt Binder in Asphalt Concrete Pavements." Presented at the Annual meeting of the Association of Asphalt Paving Technologists, Lexington, Kentucky, March 10 – 12, 2003.

134. Mohammad, L. N., Abu-Farsakh, M.Y., Wu, Z., and Abadie, C., “Louisiana Experience With Foamed Recycled Asphalt Pavement Base Materials.” Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2003.
135. Wang, L.B., Meyers, L.A., Mohammad, L. N., and Fu, Y.R., “A Micromechanics Study on Top-Down Cracking.” Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2003.
136. Mohammad, L. N., Herath, A., and Huang, B., “Evaluation of Permeability of Superpave Asphalt Mixtures.” Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2003.
137. Gaspard, K.J., Mohammad, L. N., and Wu, Z., “Laboratory Mechanistic Evaluation of Soil Cement Mixtures with Fibrillated-polypropylene-fibers.” Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2003.
138. Wang, L.B., Mohammad, L. N., “Quantification of Morphology Characteristics of Aggregate from Profile Images.” Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2003.
139. Huang, B., and Mohammad, L. N., “Laboratory Comparisons and Numerical Analysis of Open Graded Asphalt Treated Drainable Base Mixtures.” Presented at the Third International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, November 21-22, 2002.
140. Mohammad, L. N., Raqib, Md., Wu, Z., “Measurement of Interlayer Bond Strength through Direct Shear Tests.” Presented at the Third International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, November 21-22, 2002.
141. Mohammad, L. N., Raqib, Md., Wu, Z., “Characterization of HMA Pavements Interface Shear Strength.” Presented at the Third International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, November 21-22, 2002.
142. Huang, B., Mohammad, L. N., Rasoulilian, M., Roberts, F., Qun, H., “Numerical Validation of Pavement Performance at the Louisiana Accelerated Loading Facility (ALF).” Presented at the Ninth International Conference on Asphalt Pavements, Copenhagen, Denmark, August 17-22, 2002.
143. Mohammad, L. N.

Technology, Kunming, China, April 23-25, 2002.

146. Huang, B., Mohammad, L. N., Wathugala, W., “Development of a Thermo-viscoplastic Constitutive Model for HMA Mixtures.” Presented at the 2002 Meeting of the Association of Asphalt Paving Technologist, Colorado Springs, Colorado, March 18-20, 2002.
147. Huang, B., Mohammad, L. N., Graves, P., Abadie, C., “Louisiana Experience with Crumb-Rubber Modified Hot-Mix Asphalt Pavement.” Presented at the 81th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13-17, 2002.
148. Mohammad, L. N.

158. Mohammad, L. N., Huang, B., and Raghavendra, A., “Comparisons between Asphalt Pavement Analyzer and Superpave Shear Tester Results for the Louisiana Superpave Design Projects.”
159. Presented at the Civil & Environmental Engineering Conference “New Frontier and Challenges,” Bangkok, Thailand, November 8 - 12, 1999.
160. Yeh, P., Negulescu, I., Daly W., and Mohammad, L. N., “Flow Properties of Asphalt Cements by Compounding with Synthetic Polymers.” Presented at the Petersen Asphalt Research Conference, Laramie, WY, July 12-14, 1999.
161. Mohammad, L. N., Titi, H., and Herath A., “Estimation of Resilient Modulus of Subgrade Soil from Cone Penetration Data.” Presented at the Transportation Research Board 7th International Conference on Low Volume Roads, Baton Rouge, LA, May 23-36, 1999.
162. Mohammad, L. N., Huang, B., and Zhang, X., “Laboratory Performance Evaluation of SMA, CMHB, and Dense Graded Asphalt Mixtures.” Presented at the 75th Annual Meeting of the Association of Asphalt Paving Technologist, Chicago, Illinois, March 8-10, 1999.
163. Huang, B., Mohammad, L. N., Ragavendra, A., and Abadie, C., “Fundamental of Permeability in Asphalt Mixtures.” Presented at the 75th Annual Meeting of the Association of Asphalt Paving Technologist, Chicago, Illinois, March 8-10, 1999.
164. Mohammad, L. N., Ragavendra, A., and Huang, B., “Analysis of HMA Mixes Using the Asphalt Pavement Analyzer (APA).” Presented at the 1999 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 21-24, 1999.
165. Mohammad, L. N., Huang, B., and Ragavendra, A., “Characterization of Superpave Mixes Utilizing the Superpave Shear Tester.” Presented at the 1999 Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 21-24, 1999.
166. Mohammad, L. N., Huang, B., Puppala, A, and Allen A., “A Regression Model for Resilient Modulus of Subgrade Soils.” Presented at the at the 78th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-14, 1999.
167. Mohammad, L. N., and Gokman, R. “Structural Properties of Bituminous Mixtures Modified With Hydrated Lime.” Presented at the 1st Asia Pacific Conference on Transportation and Environment, Singapore, May 13 - 15, 1998.
168. Mohammad, L. N., and Tan, Z., “The Influence of Aggregate and Binder Type on the Fundamental Engineering Properties of Stone Mastic Asphalt and Coarse Matrix High Binder Mixtures.”_Presented at the 1st Asia Pacific Conference on Transportation and Environment, Singapore, May 13 - 15, 1998.
169. Mohammad, L. N., and Gokman, R., “Fatigue And Permanent Deformation Characteristics of Bituminous Mixtures Modified With Hydrated Lime.” Presented at the 3rd International Conference on Road & Airfield Pavement Technology, Beijing, P. R. China, April 28 - 30, 1998.
170. Huang, B., Mohammad, L. N., Zhu, J., and Zhu, X., “Design, Construction and Monitoring

for the Excavation of Shanghai World Plaza.” Presented at the International Conference on Case Histories in Geotechnical Engineering, St. Louis, MO, March 9-12, 1998

171. Mohammad, L. N., Paul, H., and Altinsoy, R., “Fundamental Properties of Bituminous Mixtures Modified with Hydrated Lime.” Presented at the 1997 ASCE’s 1997 Annual Conference and Exposition, Minneapolis, Minnesota, October 5-8, 1997.
172. Mohammad, L. N., “Performance of Stone Mastic Asphalt Mixtures.” Presented at the 1997 Transportation Engineering Conference, Baton Rouge, LA, February 23-26, 1997.
173. Puppala, A. J., Allen, A., and Mohammad, L. N., “Estimation of Permanent Strains of Subgrade Soils from Repeated Load Triaxial Test.” Presented at the at the 76th Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 1997.
174. Roberts, F. L., Mohammad, L. N., Ludfi, Djakfar, and Raghavendra, A., “Design, Construction, and Analysis of Pavements Under ALF Loading.” Presented at the at the 76th Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 1997.
175. Mohammad, L. N., and Paul H.R., “Permanent Deformation and Fatigue Characteristics of SMA Mixtures.” Presented at the 1996 ASCE Materials Engineering Conference, Washington, DC, November 11-14, 1996.
176. Mohammad, L. N., "Design of SMA Mixture for an Orthotropic Bridge Deck Resurfacing.” Presented at the Joint 18th Australian Road Research Board Transport Research Conference,

WORKSHOPS, SHORT COURSES, SEMINARS, AND WEBINARS ATTENDED

Webinars	37
Workshops	11
Short Courses	8
Seminars	6

- # Webinar. Evaluating Tack Coat Materials' Durability in Asphalt Pavements. March 31, 2021. Sponsored by: TRB.
- # Webinar. Improving Pavement Sustainability and Resiliency. March 23, 2021. Sponsored by: FHWA.
- # Webinar. Measuring Resiliency – Tools for Analyzing Resilient Transportation Systems . March 18, 2021. Sponsored by: TRB.
- # Webinar. Concrete Overlays of Asphalt . March 11, 2021. Sponsored by: TRB.
- # Webinar. Chemical Treatments on Low-Volume Roads . March 3, 2021. Sponsored by: TRB.
- # Webinar. Centering Seams – Maintaining Centerline Joints in Asphalt Pavements . February 17, 2021. Sponsored by: TRB.
- # Webinar. Understanding Pavements – Long-Term Pavement Performance Program Updates. February 4, 2021. Sponsored by: TRB.
- # Webinar. Material Management & Handling. January 14, 2021. Sponsored by: ATS.
- # Webinar. Specifying Clay and Gravel for Road Surfacing. December 9, 2020. Sponsored by: TRB.
- # Webinar. Automated Connected Civil Infrastructure. November 19, 2020. Sponsored by: TRB.
- # Webinar. Tools of the Future - Printing Cement-Based Materials in 3D. November 17, 2020. Sponsored by: TRB.
- # Webinar. Where Are We Now with Performance-Based Pavement Warranties? October 19, 2020. Sponsored by: TRB.
- # Webinar. Introducing an Improved Design Procedure for Unbonded Concrete Overlays. October 5, 2020. Sponsored by: TRB.

- # Webinar. On the Road Again - Engaging Students in Road Engineering Careers. September 16, 2020. Sponsored by: TRB.
- # Webinar. Fabricating Asphalt for Laboratory Testing. September 9, 2020. Sponsored by: TRB.
- # Webinar. Chip Seal Introduction, Site Selection, Design and Materials. August 20, 2020. Sponsored by: FHWA and PPRA.
- # Webinar. Using Otta Seal as a Surface Treatment on Low Volume Roads. August 4, 2020. Sponsored by: TRB.
- # Webinar. An Introduction to Life-Cycle Assessment for Pavements: Part II—EPDs and PCRs. July 23, 2020. Sponsored by: FHWA.
- # Webinar. Strategic Issues Affecting Highway Preservation, Maintenance, and Renewal. July 23, 2020. Sponsored by: TRB.
- # Webinar. Smooth Road Ahead – Applying Pavement Condition Data for Airports. July 7, 2020. Sponsored by: TRB.
- # Webinar. Pavement Deflections – Past, Present, and Future. June 24, 2020. Sponsored by: TRB.
- # Webinar. An Introduction to Life-Cycle Assessment for Pavements: Part I--Fundamentals. June 18, 2020. Sponsored by: FHWA.
- # Webinar. Pavement Preservation: Hot In-Place Recycling (HIR), Processes & Best Practices. June 16, 2020. Sponsored by: FHWA and PPRA.
- # Webinar. How to Certify and Verify Pavement Surface Condition Data. June 10, 2020. Sponsored by: TRB.
- # Webinar. An Introduction to Life-Cycle Cost Analysis for Pavements: Part II--Application and Examples. May 21, 2020. Sponsored by: FHWA and LCCA.
- # Webinar. Crack Treatments: Overview, Project Selection & Design. May 21, 2020. Sponsored by: FHWA and PPRA.
- # Webinar. Attracting the Future Construction Workforce – Case Studies. May 12, 2020. Sponsored by: TRB.
- # Webinar. Sustainable highway construction. April 28, 2020. Sponsored by: TRB.
- # Webinar. An Introduction to Life-Cycle Cost Analysis for Pavements: Part I Fundamentals. April 16, 2020. Sponsored by: FHWA.
- # Webinar. Introduction to Slurry Surfacing Systems. April 16, 2020. Sponsored by: FHWA and PPRA.
- # Webinar. Pavement End-of-Life Considerations. March 19, 2020. Sponsored by: FHWA.

- # Webinar. How rough is your pavement? March 17, 2020. Sponsored by: TRB.
- # Webinar. Quantifying the performance of your pavement preservation. March 5, 2020. Sponsored by: TRB.
- # Webinar. How to preserve your pavement through better crack seal. February 24, 2020. Sponsored by: TRB.
- # Webinar. Sustainable Pavement Construction. January 30, 2020. Sponsored by: FHWA.
- # Webinar. Sustainable Design Approaches. December 19, 2019. Sponsored by: FHWA.
- # Webinar. Sustainable Pavements Materials. November 21, 2019. Sponsored by: FHWA.
- # Webinar. Driving Surface Aggregate – Improving Performance and Sustainability. November 13, 2019. Sponsored by: TRB.
- # Webinar. Automated Pavement Condition Surveys. October 21, 2019. Sponsored by: TRB.
- # Webinar. Pavements Sustainability Basics. October 17, 2019. Sponsored by: FHWA.
- # Webinar. Open Graded Pavements: A Primer with Emphasis on Water Quality Benefits. September 19, 2019. Sponsored by: TRB.
- # Webinar. Recent Developments in Cold Asphalt Recycling. August 26, 2019. Sponsored by: TRB.
- # Webinar. Use of Life Cycle Assessment in Public Procurement: State of Practice. April 20, 2019. Sponsored by: TRB.
- # Webinar. Evaluation of Superheavy Load Movement on Flexible Pavements. April 23, 2019. Sponsored by: TRB.
- # Webinar. Building Better Micro Surfacing and Slurry Seals. April 24, 2019. Sponsored by: TRB.

Oklahoma and the National Science Foundation.

- # Workshop on “Construction of Student-Generated Webpages as a Learning Tools.” May 16-19, 1999, Baton Rouge, LA. Sponsored by: the Louisiana Board of Regents LaCEPT.
- # National Asphalt Training Center “FHWA Superpave Mixture Design Workshop.” February 10-14, 1997, Lexington, Kentucky. Sponsored by: FHWA and the Asphalt Institute.
- # Northwestern University Traffic Institute “Fundamental of Geometric Design Workshop.” April 8-12, 1996, Baton Rouge, Louisiana. Sponsored by: LADOTD and FHWA.
- # Shell Workshop on Polymer Modified Asphalt. March 5, 1992, Shell Westhollow Research Center. Sponsored by: Shell Chemical Company, Houston, Texas.
- # Workshop on Resilient Modulus Testing, State of the Practice. March 28-30, 1989, Corvallis, Oregon. Sponsored by: AASHTO, FHWA, Oregon Department of Transportation, Oregon Transportation Research Institute, and Oregon State University.
- # Workshop on Effective Communication, Time and Stress Management. March 25, 1988, Baton Rouge, Louisiana. Sponsored By: LTRC.
- # Short Course on “Leap not Creep: Accelerating Innovation Implementation.” March 2-3, 2010. Baton Rouge, Louisiana. Sponsored by: FHWA and LADOTD.
- # Short Course on “An Introduction to the Bailey Method; Achieving Volumetrics and Compactability.” January 3, 2008. Baton Rouge, Louisiana. Sponsored by: FHWA and LADOTD
- # Short Course on “Introduction to Mechanistic Design for New & Rehabilitated Pavements (NHI Course No. 131064).” December 17-20, 2007. Baton Rouge, Louisiana. Sponsored by: FHWA and LADOTD.
- # Short Course on “Asphalt Pavement Recycling Technologies (NHI Course No. 131050).” February 27-28, 2007. Baton Rouge, Louisiana. Sponsored by: FHWA and LADOTD
- # Short Course on “Scientific Approaches to Transportation Research (NHI Course No. 123002A).” May 20-23, 2002. Baton Rouge, Louisiana. Sponsored by: National Cooperative Highway Research Program and LADOTD.
- # Short Course in Analysis of Pavement Distress Data, Pavement Distress Indices, and Remaining Service Life. August 22, 1991, Louisiana Transportation Research Center. Sponsored by: LTRC's Technology Transfer Program and LADOTD.
- # Short Course in Asphalt Pavement - Materials, Design, Construction, Pavement Management, Maintenance, and Rehabilitation. February 27 - March 3, 1989, New Orleans, Louisiana. Sponsored by: Asphalt Institute and Plant Mix Asphalt Industry of Louisiana.
- # Short Course in the Operation of the 458 Controller and Related Electronics for the MTS Testing System. December 14-18, 1987, Minneapolis, Minnesota. Sponsored by: MTS

