

LOUAYN. 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, Engineering Materials Characterization Research Facility
Louisiana Transportation Research Center
Louisiana State University
4101 Gourrier Avenue, Baton Rouge, Louisiana 70808
Phone (225) 767-9126 ***Fax*** (225) 767-9179 ***Email*** Louaym@lsu.edu

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

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

July 2006 - Present

Professor
Irma-Louise Rush Stewart Distinguished Professor (January 2007 - Present)
Coordinator, Transportation Engineering Faculty Group (March 2003 - Present)
Department of Civil and Environmental Engineering
Director, Engineering Materials Characterization and Research Facility
Louisiana Transportation Research Center, Louisiana State University

Led new research initiatives in the areas of construction materials characterization, pavement engineering, and asphalt technology. Under Dr. Mohammad leadership, a state-of-the-art construction materials characterization laboratory, named Engineering Materials Characterization Research Facility (EMCRF), was established at the Louisiana Transportation Research Center (LTRC). As a Director of EMCRF, he is responsible for developing, conducting, managing and sustaining a pavement engineering materials research program. The annual research expenditure that Dr. Mohammad administer at EMCRF is approximately \$900,000 with staff of three research associates, technician, and several undergraduate and graduate students.

Develop academic assignments for five transportation engineering faculty members in the Department

Developed and conducted numerous workshops, seminars, and short courses for contractors, consultants, material suppliers, parish engineers, and DOT personnel

Established a minor in transportation engineering within the undergraduate CEE curriculum

August 2000 - June 2006

Associate Professor (tenured July 1, 2004)

Department of Civil and Environmental Engineering

Director, Engineering Materials Characterization and Research Facility

Louisiana Transportation Research Center, Louisiana State University

January 2000 - August 2000

Research Associate Professor of Civil and Environmental Engineering

Department of Civil and Environmental Engineering

Director, Engineering Materials Characterization and Research Facility

Louisiana Transportation Research Center, Louisiana State University

December 1989 - December 1999

Research Assistant Professor

Department of Civil and Environmental Engineering

Manager, Engineering Materials Characterization and Research Facility

Louisiana Transportation Research Center, Louisiana State University

September 1987 to November 1989

Asphalt Technology Research Associate

Louisiana Transportation Research Center, Louisiana State University

August 1980 to September 1987

Graduate Teaching Assistant, Dept. of Civil & Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana.

August 1979 to May 1980

Teaching Assistant, Dept. of Civil & Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana. Grading homework (Mechanics of Materials, Surveying).

INDUSTRY/GOVERNMENT CONSULTING

Taylor, Porter, Brooks & Phillips, LLP, Louisiana

Parish of Ascension, Louisiana

Lafayette Consolidated Government, Lafayette, Louisiana

GSA Engineers, Gonzales, Louisiana

Becker & Associates, APLC, Lafayette, Louisiana

Didriksen Law Firm, Gonzales, Louisiana

K. I. Saab & Associates, Los Angeles, California

Glenn Lege Construction, Inc, Youngsville, Louisiana

ENVIRON International Corporation, Baton Rouge, Louisiana,
Clary, Suba, and Neale, LLP, Baton Rouge, Louisiana
Kracht, Madison, and Huddleston, LLP, Baton Rouge, Louisiana
Smith, Gambrell, and Russell, LLP, Atlanta, Georgia,
Montana Department of Transportation, Helena, Montana
City of Toronto, Toronto Canada

AWARDS AND RECOGNITIONS

- Ranked top 2% globally of most cited scientist from natural sciences and medicine; and social sciences, Stanford University, PLOS Biology Journal, 2021.
- Life member, Association of Asphalt Paving Technologist, 2021.
- Appointed, President, LSU Chapter Phi Kappa Phi honor Society, August 2020
- Appointed, Trustee, ASCE Foundation Council of Trustees, Region 5, August 2020
- Appointed Emeritus Member, Transportation Research Board Committee on Surface Requirements of Asphalt Mixtures, January 1, 2020 - Indefinite
- Appointed to the FHWA Asphalt Performance Technical Feedback Group, 2019.
- Elected Fellow, American Society of Civil Engineers, March 2019
- Recipient of the 2019 LSU office of Innovation and Technology Commercialization Certificate for a book titled Advancement in the Design and Performance of Sustainable Asphalt Pavements
- Recipient of the 2018 Association of Asphalt Paving Technologists (AAPT) Best Paper Walter J. Emmons Award for an article titled *Impact of Various Crumb Rubber Modifications on Asphalt Binder and Mixture Properties*
- Selected to serve as a member of the National Academies of Science, Engineering, Medicine Transportation Research Board Panel 20-07/Task 422 on "User Review of the AASHTO 'Guide for the Local Calibration of the Mechanistic-Empirical Pavement Design Guide', November 2017 - 2018
- Selected to serve as a member of the National Academies of Science, Engineering, Medicine Transportation Research Board Panel 48-02 on "Tack Coat Specifications, Materials, and Construction Practices, July 2016 - 2018
- Recipient of the 2015 Asphalt Rubber Ambassador Award by the Rubber Pavement Association.
- Selected to serve on the Louisiana Professional Engineering and Land Surveying Board Transportation Engineering Practice Committee, September 2014 - September 2015
- Selected to serve as a member of National Academies of Science, Engineering, Medicine Transportation Research Board Panel 46-05 on "Use of Recycled Asphalt Pavement and Shingles," June 2014 - June 2016.
- Recipient of the 2014 Research Achievement Award, Department of Civil and Environmental 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.
- Recipient of the Association of Asphalt Paving Technologists Board of Directors Award of Recognition, 2002.
- Selected to Chair the National Academy of Science National Cooperative Highway Research Program Panel Project 9-36 on the Improved Procedure for Laboratory Aging of Asphalt Binders in Pavements, August 2002 - 2012.
- Selected to serve on the National Academy of Science National Cooperative Highway

Research Program Panel Project 1-42 on Top-Down Fatigue Cracking of Hot-Mix Asphalt Layers, August 2002 - 2010.

- Selected to serve in the LADOTD Chief Construction Engineering Administrator Search Committee, January, 18, 2002.
- Paper titled “The Influence of Asphalt Tack Coat Materials on the Interface Shear Strength” was selected to be included in the 2002 Transportation Research Board Catalog of Practical Papers.
- LSU Distinguished Faculty Award Nominee, CEE Department and College of Engineering, May 2001.
- Selected to serve in the LADOTD Committee for the Development of Performance Measures/Indicators for Research (in house and contacts), Technology Transfer, and Implementation, October 2000 - March 2001.
- Selected to serve in the LADOTD Materials Research Administrator’s Interview panel, April 2001.
- Selected to serve in the LADOTD Materials Engineer Administrator’s Interview panel, March 2001.
- Paper titled “Mechanistic Evaluation of Hydrated Lime in HMA Mixtures” was selected to be included in the 2000 Transportation Research Board Catalog of Practical Papers.
- Awarded certificate of Appreciation in Recognition of Outstanding Service and leadership, ASCE Bituminous Materials Committee, January 1999.
- Paper titled “A Regression Model for Resilient Modulus of Subgrade Soils” was selected to be included in the 1999 Transportation Research Board Catalog of Practical Papers.
- Selected to serve on the Louisiana Department of Transportation and Development Committee on Implementation of Superpave Technology in Louisiana December 1996 - Present.
- The master thesis research of Mr. Alivilli (my graduate student) on Investigation of the Use of Resilient Modulus for Louisiana Soils in Design of Pavements was selected as one of five finalists in the Nation for the CUTC Milton Pikarsky/Charlie Wootan Award, July 1995.
- Selected to serve on the National Academy of Science National Cooperative Highway Research Program Panel Project 4-21 on the Appropriate Use of Waste and Recycled Materials in Transportation Industry, 1994 - 2000.
- Selected to chair the LADOTD Subcommittee on Superpave Training. 1996- 2004.
- Selected to serve on the Louisiana Department of Transportation and Development Committee on Implementation of Superpave Technology in Louisiana, 1996 - 2004.
- Selected to serve on the Louisiana Department of Transportation and Development Committee on Asphaltic Concrete Specifications, 1994 - 2006, 2011.
- Awarded the Outstanding Ph.D. Research Paper, Civil Engineering Department, Louisiana State University, March 1988.
- 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-Present
 - Elected Fellow, January 2019.
 - Journal of Materials in Civil Engineering
 - Bituminous and Flexible Pavement Section Editor, February 2014 - Present
 - 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
 - Executive Committee, Member, Nov 2008 - Present
 - Scholarship committee, Chair, 2012 - Present
 - Executive Committee, Chair, October 2016 - September 2017
- American Society of Engineering Education (ASEE), member
- American Society for Testing and Materials (ASTM)
 - Subcommittee D04.20 on Empirical Tests of Bituminous Mixtures,
Member
 - Subcommittee D04.21 on Specific Gravity and Density of Asphalt Mixtures,
Member July 1994 - Present
 - Subcommittee D04.22 on Effect of Water & Other Elements on Bituminous Coated
Aggregates,
Member
 - Subcommittee D04.24 on Bituminous Surface Treatments,
Member
 - Subcommittee D04.25 on Analysis of Bituminous Mixtures,
Chair, June 2000 - Present
Member, July 1993 - Present
 - Subcommittee D04.26 on Fundamental / Mechanistic Tests,
Member November 1991 - Present
 - 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, 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,
Member, September 1997 - September 1998.
This Committee was established by Dean Bourgoyne to seek and identify some important "Tower of Excellence" among the graduate programs that are most important to the future of the State.

Department of Civil and Environmental Engineering (CEE)

- Chair, Geodesy and Surveying Faculty search committee
- Chair, Awards Committee, 2021 - Present
- Chair, Transportation Engineering Faculty search committee, 2018
- Member, CSRS Distinguished Professorship in Coastal Engineering Selection

- Committee, October 2011
- Chair, Career Professorship Selection Committee, October 2011
- Coordinator, Transportation Engineering Faculty Group, March 2003 - Present
- Member, Facility and Space Committee, August 2010- Present
- Co-Chair, CEE Strategic Planning Committee, 2010
- Member, Civil Engineering Graduate Program Committee, August 2003-July 2010
- Member, Faculty Awards Committee, July 2007- December 2008
- Chair, Promotion & Tenure Committee, July 2006-June 2008
- Chair, Pavement Engineering Faculty Search Committee, 2007
- Member, Structural Engineering Faculty Search Committee, 2007
- Member, CEE Hall of Distinction Election Board, 2006-2009
- Chair, JFAP Faculty Search Committee, September 2005-April 2006.
- Coordinator, Community Funds for the Arts, Spring 2003.
- Coordinator, United Way Campaign, 1998,1999, 2001-2007, 2009
- Member, Research Specialist I/II Search Committee, October 2000.
- Member, Undergraduate Laboratory Facilities Committee, August 1999.
- Supervised a project for Mr. Arabinda Pani, a Student at Baton Rouge high School. The title of the project is Integration of Rubber into Asphalt.
- Supervised a project for Mr. Jonathan Fasullo, a sixth grade student at St. Peter School, Covington, Louisiana, October 1995. The title of his project is “Road Deterioration.” This project has won first place in regional competition, the highest that can be awarded.
- Secretary, Transportation Engineering Faculty Group, 1992-1995.

Louisiana Transportation Research Center

- Research Problem Statement Identification Committee, Member, Materials, February 2011, 2013, 2015, 2017, 2019, 2021
- Research Problem Statement Identification Committee, Member, Construction and System Preservation, February 2009
- Asphalt Research Engineer Search Committee, Member, 2007.
- Research Problem Statement Identification Committee, Member, Construction and System Preservation, February 2007
- Research Problem Statement Identification Committee, Member, Highway Materials, January 2007
- Computer Analyst Search Committee, Member, 2006.
- Research Problem Statement Identification Committee, Member, Highway Materials, Fall 2003
- Computer Analyst Search Committee, Member, 2002.
- LADOTD Performance Measurement Initiatives Committee, Member, October 2000 - March 2001.
Develop performance measures/indicators for Research (in house and contracts), Technology Transfer, and Implementation.
- Web Site Task Group, Member, November 2000-March 2001.
- Long Range Planning for Construction and Materials Training Development

- Committee, Member, April 2000.
- Task Force for Employee Recognition Program, Member, June 1999 - November 1999.

ORGANIZATIONAL PARTICIPATION OF PROFESSIONAL MEETINGS

- Technical session Chair on Advances in Asphalt Pavement Design, Construction, and Assessment, ASCE CI & CRC Joint Conference, March 9-12, 2022, Arlington, VA.
- Member, Transportation Research Board Committee on Production and Use of Asphalt (AKM10) task force to develop a circular on Glossary of Asphalt Mixture Balanced Mix Design Terms, January 2022.
- Organized and Chaired technical session on Resilience of Asphalt Pavement Structures, 101st Transportation Research Board Annual Meeting, January 9-13, 2022, Washington, D.C.
- Member, Technical Committee, 2021 Rubberized Asphalt & Asphalt Rubber Conference, September 28-30, 2021, Malaga, Spain.
- Member, Technical Committee, 2021 TranSET Conference, June 3-4, 2021, Jonesboro, Arkansas.
- Organized TRB Webinar on Evaluating Tack Coat Materials' Durability in Asphalt Pavements, March 31, 2021
- Member, International Advisory Committee, Sustainable Pavement Technologies: Focus on Conservation of Resources and Emphasis on Recyclability, October 9-11, 2020, Tirupati, India.
- Member, Advisory Committee and Scientific Committee, Fifth International Conference on Transportation Infrastructure and Materials, July 2-3, 2020, Changsha, China.
- Member, International Advisory Committee and Scientific Committee, Fourth International Conference on Transportation Infrastructure and Materials, June 28-30, 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 Cracking and Debonding in Pavements, June 7 - 9, 2016, Nantes, France.
- Chair Technical Session, Sustainability in Pavement Engineering, 9th International Conference on Road and Airfield Pavement Technology, August 9-13, 2015, Dalian, China.
- Member, Academic Committee, 9th International Conference on Road and Airfield Pavement Technology, August 9-13, 2015, Dalian, China.
- Member, International Advisory Committee, International Symposium on Systematic Approaches to Environmental Sustainability in Transportation, August 2-5, 2015, Fairbanks, Alaska.
- Member, Scientific Committee, 6th International Conference Bituminous Mixtures and Pavements, June 10-12, 2015, Thessaloniki, Greece.
- Member, Scientific Committee, the 4th International Transportation PhD Student Conference, May 31 - June 2, 2015, Harbin, China.
- Scientific Board Member, 2015 ASCE Transportation and Development Institute Airfield and Highway Pavement Conference, June 7-10, 2015, Miami, Florida.
- Organizing Committee, Member, Tack Coat Best Practices Workshop, May 20, 2015, Baton Rouge, Louisiana
- Organizing Committee, Member, Semi Circular Bend (SCB) Test Training Workshop. April 16, 2015, Baton Rouge, Louisiana.
- Member, International Technical Committee, MESAT 2015 Conference, April 6-8, 2015, Dubai, UAE.
- Member, Scientific Committee, 2014 ASCE 2nd Transportation Airfield and Highway Pavement Conference, June 8-11, 2014, Los Angeles, California.
- Member, International Advisory Committee, 2014 ASCE GeoShanghai 2014, May 28-30, 2014, Shanghai, China.

- Member, Third International Conference on Transportation Infrastructure (ICTI), April 22-24, 2014, Pisa, Italy.
- Chaired technical session, "Pavement Materials," 8th International Conference on Road and Airfield Pavement Technology, July 14-18, 2013, Taipei, Taiwan.
- Member, Scientific Committee, 2013 Airfield and Highway Pavement Conference, June 9-12, 2013, Los Angeles, California.
- Chaired technical session, "Asphalt Concrete Characterization," 2013 Airfield and Highway Pavement Conference, June 11, 2013, Los Angeles, California.
- Organized and Chaired a TRB Webinar on Promising Practices on Prevention of Moisture-Induced Damage in Asphaltic Pavements, January 31, 2013.
- Chaired Poster Session, "Measurement of Interlayer Bond Strength and Moisture Damage, and Performance of Specialized Asphalt Mixtures," 92nd Annual Meeting of the Transportation Research Board, January 13, 2013, Washington, D.C.
- Member, International Scientific Committee, 2012 Asphalt Rubber Conference, October 23-26, 2012, Munich, Germany
- Organized and Chaired Seminar on Sustainable Materials for Pavement Infrastructure: Use of Waste Tires in Asphalt Mixtures, September 5, 2012, Baton Rouge, Louisiana.
- Organized and Chaired a TRB Webinar on Findings of NCHRP Project 9-40 "The Optimization of Tack Coat for HMA Placement," January 12, 2012.
- Chair technical session, "Asphalt Mixture Surface Characteristics and Interlayer Bond Strength Measurement," 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- Chaired workshop session, "Measuring, Modeling, and Validation of Smoothness as Predicted by the Mechanistic-Empirical Pavement Design Guide," 91st Annual Meeting of the Transportation Research Board, January 2012, Washington, D.C.
- Chaired technical session, 1st Conference of Transportation Research Group of India, '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.
- Member, International Scientific Committee, 5th International Conference 'Bituminous Mixtures and Pavements,' June 2-3, 2011, Thessaloniki, Greece.
- Member, Scientific Committee of the Pavements and Materials Track, First ASCE Transportation and Development Institute Congress, March 13-16, 2011, Chicago, IL.
- Chaired technical session, "Characterization of Moisture Susceptibility in Hot and Warm Asphalt Mixtures," 90th Annual Meeting of the Transportation Research Board, January 2011, Washington, D.C.
- Organized and Chaired, Transportation Research Board Webinar on Characterization and Prediction of Moisture-Induced Damage in Hot and Warm Asphalt Mixtures, November 29, 2010.
- Chaired technical session, "Sustainable and Green Construction/Knowledge Management," 2nd International Conference on Construction in Developing Countries, August 3-5, 2010, Cairo, Egypt.
- Chair technical session, "Asphalt and Energy," US-China Workshop on Energy and

- Environment in the Development of Sustainable Asphalt Pavements, June 7-9, 2010, Chang'an University, Xi'an, China.
- Chaired technical session, "Pavement Performance and Analysis," GeoShanghai 2010 International Conference, June 3-5, 2010, Shanghai, China.
 - Member, International Scientific Committee, GeoShanghai 2010 International Conference, June 3-5, 2010, Shanghai, China.
 - Chaired technical session, "Moisture Susceptibility Measurements in Hot Mix Asphalt Mixtures," 89th Annual Meeting of the Transportation Research Board, January 2010, Washington, D.C.
 - Chaired Technical Session, "Pavement Performance Monitoring and Predication," The Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, July 8-10, 2009, Torino, Italy.
 - Member, International Scientific Committee, The Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, July 8-10, 2009, Torino, Italy.
 - Member, Scientific Committee, 7th International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials, May 27-29, 2009, Rhodes, Greece.
 - Chaired technical session, "Transportation Sustainability: Engineering & Environmental Consideration," Louisiana Transportation Conference, February 2009, Baton Rouge, Louisiana.
 - Chaired technical session, "Moisture Susceptibility Measurements in Hot Mix Asphalt Mixtures," 88th Annual Meeting of the Transportation Research Board, January 2009, Washington, D.C.
 - Chaired technical session, "Flexible Pavement and HMA Design Issues," the 4th International Gulf Conference on Roads, November 2008, Doha, Qatar.
 - Chaired technical session, "Assessment of Moisture Damage in Hot-Mix Asphalt 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 International Conference on Bituminous Mixtures and Pavements, November 21-22, 2002, Thessalonika, Greece.
- Organized and Chair of Superpave for the Generalist Seminar, March 30, 2002, Alexandria, Louisiana.
- Member, International Advisory Committee and International Technical Committee, International Conference on Advances in Civil Engineering - 2002, January 3-5, 2002, Department of Civil Engineering, Indian Institute of Technology, Kharagpur, India.
- Organized and Chair of Technical Session, “Characterization of Asphalt Binders and Mixtures,” ASCE 2001 Annual Convention and Exposition, October 10-13, 2001, Houston, Texas.
- Organized and Chair of Superpave for the Generalist Seminar, April 2, 2001, Baton Rouge, Louisiana.
- Organized and Chair of Superpave for the Generalist Seminar, April 4, 2001, Alexandria, Louisiana.
- Chair of Technical Session, “AR-HMA Mixture Properties,” Asphalt Rubber 2000 Conference, November 14-17, 2000, Vilmoura, Portugal.
- Organized and Chair of Technical Session, “Asphalt Characterization,” ASCE 5th Materials Congress (MatCong5), May 10-12, 1999, Cincinnati, Ohio.
- Organized and Chair of Technical Session, “Performance of Asphalt Pavements,” ASCE 1997 Annual Convention and Exposition, October 5-8, 1997, Minneapolis, Minnesota.
- Conference Chair, 1997 ASCE Louisiana Section Annual Spring Meeting and Conference, April 3-4, 1997, Baton Rouge, LA.
- Organized and Chair of technical session, "Verification of Asphalt Mixture Characterization and Performance Using Accelerated Loading Facility(ALF) and Laboratory Rut Testers," 76th Annual Meeting of the Transportation Research Board, January 1997, Washington, D.C.
- Organized and Chair of Technical Session, “Fundamental Characterization of High Performance Hot Mix Asphalt,” ASCE Transportation Engineering Conference, November 11-13, 1996, Washington, D.C.
- Organized Technical Session, “Testing of Asphalt Mixtures and its Relation to Field Performance,” ASCE Transportation Engineering Conference, November 11-13, 1996, Washington, D.C.
- Organized and Chaired the ASCE - Baton Rouge Chapter Seminar on Fundamental Characteristics of Polymer Modified HMAC, May 1995, Baton Rouge, Louisiana.
- Organized National Instrument LabWindows/LabViews software User Group meeting, LSU, February 23, 1995, Baton Rouge, Louisiana.
- Chair technical session, "Innovations in Asphalt-Rubber Applications," ASCE 1994

- Materials Engineering Conference, November 1994, San Diego, California.
- Organized and Chaired the ASCE - Baton Rouge Chapter Conference on Polymer Modified Asphalt: Specifications, Design, and Construction, July 1994, Baton Rouge, Louisiana.
- Chair technical session, "Flexible Pavement Construction: Materials and Rehabilitations," 71st Annual Meeting of the Transportation Research Board, Jan. 1992, Washington, D.C.

SPONSORED RESEARCH

Summary of Dr. Mohammad's Awarded Sponsored Research

Role	Funds	No. of Projects
PI	\$10,129,030	44
Co-PI	\$20,625,900	25
Total	\$30,754,930	69

Awarded

- 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: 27 months, 2/1/2021 - 4/30/2023
- 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: 27 months, 1/1/2021 - 3/31/2023
- 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: 36 months, 11/1/2020 - 10/31/2023
- 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 – \$203,393
Duration: 27 months, 9/1/2020 - 11/30/2022

- 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 – \$512,939
Duration: 3 years, 5/1/2019 - 4/30/2022
- Project Title: Development of a Moisture Sensitivity Test for Asphalt Mixtures
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration /LADOTD – \$348,000
Duration: 38 month, 5/1/2019 - 6/30/2022
- Project Title: Effect of Increased Asphalt Pavement Density on its Durability
Principal Investigator: Louay Mohammad
Funding Source/Amount: Federal Highway Administration – \$50,000
Duration: 1 year, 10/1/2018 - 9/30/2019
- Project Title: Evaluation of the Effect of Homogeneity of the Binder on Performance of the Recycled Mixture
Principal Investigator: Hesham Ali (Florida International University)
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Florida Department of Transportation – \$159,273
Duration: 22 months, 6/1/2017 - 3/30/2019
- Project Title: Investigation of Tack Coat Materials on Tracking Performance
Principal Investigator: Hussain Bahia (UW-Madison)
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: Wisconsin Department of Transportation – \$100,000
Duration: 22 months, 6/8/2017 - 3/7/2019
- Project Title: A Prospectus for the Establishment of a Regional University Transportation Center: Region 6
Principal Investigator: Marwa Hassan
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: U.S. Department of Transportation/Research and Innovative Technology Administration. **Year 1 -3 Budget:** \$7,750,100, Match \$ 7,800,772 (total \$15,550,872)
Duration: 5 years, 10/16 - 9/2021
- Project Title: Asphalt Research Support Funds
Principal Investigator: Louay Mohammad
Funding Source/Amount: Paragon Technical Services, \$160,000 (\$40/year).
Duration: 4 years, 10/16 - 10/20
- Project Title: *Design and Analysis Procedures for Asphalt Mixtures Containing*

- High RAP Contents and/or RAS*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA Transportation Pooled Fund Program -- \$506,812
Duration: 60 Months, 11/1/2014 - 10/31/2019
- Effects of Temperature Segregation on the Quality of Asphalt Mixtures*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD — \$352,662
Duration: 30 Months, 8/5/2014 - 2/4/2017
- Hamburg Wheel-Track Test Equipment Requirements and Improvements to AASHTO T 324*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) \$100,000
Duration: 12 Months, 7/1/2014 - 6/30/2015
- Sustainable Materials for Pavement Infrastructure - Evaluation of Asphalt Mixtures Containing Recycled Asphalt Shingles (RAS)*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: FHWA/LADOTD — \$219,476
Duration: 24 Months, 4/8/2014 - 4/07/2016
- Collaborative Research: Virtual Laboratory for Engineering and Applied Sciences Education (EASE)*
- Principal Investigator: Marwa Hassan (Subcontract with Western Michigan University)
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: NSF – \$68,621
Duration: 24 Months, 8/01/2011 - 8/01/2013
- Field Implementation of the Louisiana Interface Shear Strength Test*
- Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) – \$186,407
Duration: 24 Months, 6/01/2013 - 12/31/2016
- Performance of WMA Technologies: Stage II--Long-Term Field Performance*
- Principal Investigator: Shihui Shen (Washington State University)
Co-Principal Investigator: Louay N. Mohammad
Funding Source/Amount: National Cooperative Highway Research Program (NCHRP) – \$1,010,925

- Duration: 63 Months, 4/29/2011 - 7/28/2016
- 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 Medicine)
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 Research Program and LSU School of

Duration:	Veterinary Medicine Organized Research Funds - \$7,505 One Year, 1988 - 1989
Project Title:	<i>Biomechanical Effects of Transection of the Accessory Ligament of the Deep Digital Flexor Tendon: In Vitro and in Vitro Equine Study</i>
Principal Investigator:	Alecia Bertone (Veterinary Medicine) and Stuart Shoemaker (Veterinary Medicine)
Co-Principal Investigator:	Louay N. Mohammad
Funding Source/Amount:	American College of Veterinary Surgeons - \$5,200
Duration:	One Year, 1988 - 1989

GRADUATE STUDENT COMMITTEES**A. MS Theses***Committee Chair/Co-Chair* = 39*Committee Member* = 22**B. Ph.D. Dissertations***Committee Chair/Co-Chair* = 15*Committee Member* = 26*External Examiner (MS and Ph.D.)* = 6**TEACHING EXPERIENCE**

Louisiana State University, Baton Rouge, Louisiana State University

1989-Present

COURSE NUMBER	COURSE TITLE	TIMES TAUGHT	PERIOD
CE 3410	Mechanics of Materials Laboratory	1	Spring 05
CE 3700	Engineering Materials Laboratory	42	Fall 00 - Fall 13, Fall 17, Spring 18- Spring 22
CE 3740	Independent Studies in Civil Engineering	5	Fall 00 - Summer 05

CE 4650/4780/4781	Introduction to Asphalt Mixture Design	22	Fall 91 - Spring 22
CE 7650	Bituminous Materials and Mixtures	6	Spring 93 - Fall 15
CE 7655	Pavement Materials Characterization	9	Fall 99 - Fall 21
CE 7670	Pavement Design	2	Fall 92 - Fall 12
CE 7701	Pavement Evaluation and Rehabilitation	5	Fall 12 - Fall 20
CE 7750	Seminar	1	Fall 01

TEACHING of SHORT COURSES

Superpave Mixture Design and Analysis, 3 ½ days

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

Category	Quantity
Refereed Journals	228
Refereed Proceedings Papers	68
Other Proceedings Papers	4
Technical Reports	63
Technical Magazines – Invited Articles	11

Published/Accepted for Publication in Referred Journals

1. Zhang, W., Ahmad, K., Tong, Z., Hu, Z., Wang, H., Wu, M., Zhao, K., Yang, S., Farooq, H., and Mohammad, L. N., "In-time Density Monitoring of In-place Asphalt Layer Construction via Intelligent Compaction Technology." *ASCE Journal of Materials in Civil Engineering*, 2022.
2. Akentuna, M., Mohammad, L. N., Boateng, K., and Cooper Jr, "Warm Mix Asphalt Demonstration Projects in Louisiana: Case Study of Five to Eight Years of Field Performance." *The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record*, <https://doi.org/10.1177/03611981221085521>, 2022, pp. 1-11
3. Barghabany, P., Zhang, J., Mohammad, L. N., Cooper III, S., and Cooper Jr, S., "Effect of Laboratory Aging Levels on Asphalt Binder Chemical/Rheological Properties and Fracture Resistance of Asphalt Mixtures." *ASCE Journal of Materials in Civil Engineering*, Vol 34 (3), 2022, pp. 04021491:1-9.
4. Al-Hosainat, A., Nazzal, M., Talha, SK., Kim, S., Abbas, A., Mohammad, L. N., Biehl, E., and Ricciardi, P., "Evaluation of The Interlayer Bond 1 Strength of Micro-Surfacing Mixes." *The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record*, 2022.
5. 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*, 2022.
6. 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, Journal of the Transportation Research Record*, <https://doi.org/10.1177/03611981221074377>, 2022, pp: 1-13.
7. 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.
8. 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.
9. 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 Network Approach." *The National Academies of Science, Engineering, and Medicine.*

- Transportation Research Record, Journal of the Transportation Research Record, <https://doi.org/10.1177/036119812111036357>, 2021, pp. 1-13.
10. Akentuna, M., Mohammad, L. N., Sachdeva, S., Cooper III, S., and Cooper Jr, S., "Effectiveness of Loaded Wheel Tracking Test to Ascertain Moisture Susceptibility of Asphalt Mixtures." The National Academies of Science, Engineering, and Medicine. Transportation Research Record, Journal of the Transportation Research Record, <https://doi.org/10.1177/036119812111036355>, 2021, pp. 1-14
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AASHTO TP 115	Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory
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3. Mohammad, L. N., Cooper, Jr., S., and Kim, M., "Sustainable Materials for Pavement Infrastructure: Design and Performance of Asphalt Mixtures Containing Recycled Asphalt

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 8. Mohammad, L. N., Alshamsi, K., and Saadeh, S., "Optimization of Asphalt Mixture Design for Louisiana ALF Test Sections." Louisiana Transportation Research Center, Report No. FHWA/LA.07/42, Baton Rouge, Louisiana, May 2018.
 9. 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.
 10. 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.
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15. 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.
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22. 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.
23. 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.
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25. 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.

26. 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.
27. Mohammad, L. N., and Elseifi, M., "Field Versus Laboratory Volumetrics & Mechanical Properties," National Cooperative Highway Research Program, Interim Report, Washington, D.C., December 2010.
28. Mohammad, L. N., and Elseifi, M., "Field Versus Laboratory Volumetrics & Mechanical Properties," National Cooperative Highway Research Program, Interim Report, Washington, D.C., April 2010.
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30. 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.
31. 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.
32. Mohammad, L. N., Rasoulia, M., King W., Martinez, M., and Qi, Y., "Evaluation of Stone/RAP Interlayers under Accelerated Loading," Louisiana Transportation Research Center, Report No. FHWA/LA.06/409, Baton Rouge, Louisiana, April 2007.
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36. 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.461, Baton Rouge, Louisiana, January 2007.
37. Mohammad, L. N., Saadeh, S., Zhang, C., and Ragavendra, A., "The Physical and Mechanistic Properties of HMA Mixture: Field vs Laboratory," Louisiana Transportation Research Center, Report No. FHWA/LA.06/412, Baton Rouge, Louisiana, October 2006.

38. Mohammad, L. N., Wu, Z., and Ragavendra, A., “Performance Evaluation of Louisiana Superpave Mixtures,” Louisiana Transportation Research Center, Report No. FHWA/LA.06/410, Baton Rouge, Louisiana, July 2006.
39. Mohammad, L. N., and Button, J., "Optimization of Tack Coat for HMA Placement," National Cooperative Highway Research Program, Phase I Report, Washington, D.C., January 2006.
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41. Mohammad, L. N., Wu, Z., and Cea, M., “Evaluation of a Loaded Wheel Tester for Asphaltic Concrete Mixtures,” Louisiana Transportation Research Center, Report No. FHWA/LA.05/405, Baton Rouge, Louisiana, October 2005.
42. Mohammad, L. N., Wu, Z., and Raqib, M., “ Influence of Asphalt Tack Coat Materials on the Interface Bonding Strength,” Louisiana Transportation Research Center, Report No. FHWA/LA-04/394, Baton Rouge, Louisiana, January 2005.
43. Mohammad, L. N., Daly, W., Negulescu, I., Wu, Z., and Daranga, C., “Investigation of the Use of Recycled Polymer Modified Asphalt in Asphaltic Concrete Pavements,” Louisiana Transportation Research Center, Report No. FHWA/LA-04/391, June 2004.
44. 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.
45. 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.
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47. 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.
48. 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.
49. 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.
50. 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.

51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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-97/306, December 1997.
57. Mohammad, L. N., Puppala, A., and Alavilli, P., "Investigation of the Use of Resilient Modulus for Louisiana Soils in Design of Pavements," Louisiana Transportation Research Center, Report No. FHWA/LA-94/283, June 1994.
58. Mohammad, L. N., Paul, H. R., and Raghavendra, A., "A Parametric Evaluation of Fundamental Engineering Properties for Louisiana Hot Mix," Louisiana Transportation Research Center, Report No. FHWA/LA-94/276, June 1994.
59. Mohammad, L. N., and Kathavate, S., "Validation of the Performance of the Louisiana ALD Data Acquisition System," Louisiana Transportation Research Center, Report No. FHWA/LA-93/278, August 1993.
60. Mohammad, L. N., Paul, H.R., Foxworthy, P.T., and Seals, R.K., "A Dynamic Testing System for Pavement Materials Characterization and Performance Evaluation," Final Report, Louisiana Education Quality Support Funds, Board of Regents for Higher Education, State of Louisiana, July 1993.
61. Mohammad, L. N., and Kathavate, S., "Design and Development of Data Acquisition System for the Louisiana Accelerated Loading Facility," Louisiana Transportation Research Center, Report No. FHWA/LA-92/250, August 1992.
62. Mohammad, L. N., and Paul, H.R., "Evaluation of Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix," Final Report, FHWA-SA-94-021, Federal Highway Administration, August 1992.

63. Mohammad, L. N., and Paul, H.R., "Evaluation of Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix -- Phase I," Interim Report, Federal Highway Administration, April 1991.

TECHNICAL MAGAZINES

Invited Articles

1. Mohammad, L. N., and Akentuna, M., "Overcoming the Risk of Moisture Damage in Flexible Pavements: Evaluation of Loaded Wheel Tracking Testing and Conditioning Protocols." Featured Article, Louisiana ASCE Journal, Volume 30, No. 3, May 2022.
2. Mohammad, L. N., and Cooper, III, B., "Development and Implementation of Louisiana's Balanced Asphalt Mixture Design Procedure." Featured Article, Louisiana ASCE Journal, Volume 25, No. 4, August 2017.
3. Mohammad, L. N., Elseifi, M., and King, W., "Optimization of Tack Coat Applications in Asphalt Pavements: Louisiana Develops Evaluation Tools and Pilot-Tests Guidance ." Featured Article on Research Pays Off. Transportation Research Board, TR New No. 296, January-February, 2015, pp. 43-45.
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., "Laboratory Study Evaluates Unconventional HMA Mixtures," The McGraw Hill Companies, Louisiana Contractors, July 1997.
11. Mohammad, L. N., "Participation of Industry In Higher Education," The McGraw Hill Companies, Louisiana Contractors, October 1996.

PRESENTATIONS

Summary of Dr. Mohammad's presentations

Category	Quantity
Presentations–Invited Speaker	231
Presentations–Other	189

Invited/Keynote/Guest Speaker/Webinar

1. Mohammad, L. N., "Moisture Damage Assessment: Evaluation of Testing and Conditioning Protocols." Presented at the ASCE CI & CRC Joint Conference, March 9-12, 2022, Arlington, VA. (Invited Presentation).
2. Mohammad, L.N., "Rejuvenators for Durable Flexible Pavements." Presented at the Southeast Asphalt User Producer Group Meeting, November 16 – 18, 2021, Knoxville, Tennessee. (Invited Presentation).
3. Mohammad, L.N., "WMA Demonstration Projects in Louisiana: Case Study of Five to Eight Years of Field Performance." Presented at the Southeast Asphalt User Producer Group Meeting, November 16 – 18, 2021, Knoxville, Tennessee. (Invited Presentation).
4. Mohammad, L.N., "Effects of Tack Coat Material Type and Application Rate on Pavement Performance." Presented at the 7th International Symposium on Asphalt Emulsion Technology, October 26-28, 2021. (Virtual invited Presentation)
5. 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).
6. 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).
7. Mohammad, L.N., "Assessments of Asphalt Mixtures' Cracking Tests at Intermediate Temperature: A Case Study." Presented at the International Conference on Civil and Environmental Engineering Technologies, April 21-22, 2021, Kufa, Iraq. (Virtual Keynote Lecture).
8. Mohammad, L. N., "Effect of Tack Coat Materials on Durability of Asphalt Pavement." Transportation Research Board Webinar on Evaluating Tack Coat Materials' Durability in Asphalt Pavements. March 31, 2021. (Invited Webinar Speaker).
9. Mohammad, L.N., "Effect of Tack Coat Materials on Durability of Asphalt Pavement." Presented at the 61st LAPA Annual Convention and Meeting, June 22 - 24, 2020, Baton Rouge, Louisiana.

10. Mohammad, L.N., “Effect of Flexible Pavement Layers Bonding on Durability.” Presented at the International Conference on Civil and Environmental Engineering Technologies, June 10 - 12, 2020, Kufa, Iraq. (Keynote Lecture).
11. Mohammad, L.N., “Effect of Laboratory Aging on Asphalt Binders and Intermediate Temperature Cracking of Asphalt Mixtures.” Presented at the 2020 Louisiana Transportation Conference, March 1-4, 2020, Baton Rouge, Louisiana.
12. Mohammad, L.N., “Designing and Constructing Flexible Pavement with Long Lasting Performance.” Presented at the 2020 ASCE Construction Institute Summit, February, 19-22, 2020, Los Angeles, California. (Invited Lecture).
13. Mohammad, L.N., “Relation Between Flexible Pavement Layers Bonding and Durability.” Presented at the 21st Annual Conference of the Association of Modified Asphalt Producer, February, 10-13, 2020, Rancho Mirage, California. (Invited Lecture).
14. Mohammad, L.N., "The Future of Highways: Emerging Trends in the Design and Construction of Durable Flexible Pavement." Presented at the Iraqi Forum for Intellectuals and Academics, January 4, 2020, Amman, Jordan, (Invited Lecture).
15. Mohammad, L.N., “Emerging Trends: Durable Flexible Pavement .” Presented at the ASCE-T&DI Louisiana Chapter Seminar Series, December 3, 2019, Baton Rouge, Louisiana. (Invited Lecture)
16. Mohammad, L.N., “Assessments of Cracking Tests: A Transportation Pool Fund Study.” Presented at the Annual Meeting of the Southeastern Asphalt User Producer Group November 19 – 21, 2019, Baton Rouge, Louisiana.
17. 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.
18. 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).
19. 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).
20. 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).
21. 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).

22. 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)
23. 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)
24. Mohammad, L.N., “New Generation of Performance-Engineered Asphalt Mixture Design.” Presented at the Shandong Transportation Institute, July 04, 2019, Jinan, China. (Keynote Lecture)
25. 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)
26. 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)
27. 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)
28. 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)
29. 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.
30. Mohammad, L. N., "Asphalt Mixture Additives – What is on the Horizon?" Association of Asphalt Paving Technologist Webinar, November 8, 2018. (Invited Webinar).
31. 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.
32. 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.
33. 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.

34. 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.
35. 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).
36. 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.
37. 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.
38. Mohammad, L. N., "Impact of Asphalt Mixture Design and Construction on Density and Durability of Asphalt Pavements." Presented at the Louisiana Transportation Conference, Baton Rouge, Louisiana, February 25-28, 2018.
39. Mohammad, L. N., "Assessment of Interface Bonding Performance." Presented at the 97th Annual Meeting of the Transportation Research Board, Workshop on Balancing Durability and Safe Function in Dense-Graded Asphalt Pavement, Washington, D.C., January 7-11, 2018.
40. 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.
41. Mohammad, L. N., "Evaluation of Various Hamburg Wheel-Tracking Devices and AASHTO T 324 Specification for Rutting Testing of Asphalt Mixtures." Presented at the Annual Meeting of the Southeastern Asphalt User Producer Group, Jacksonville, Florida November 13 – 16, 2017.
42. You, T., Shi, Y., Mohammad, L. N., Cooper III, S., "Laboratory Performance of Asphalt Mixtures Containing Re-Refined Engine Oil Bottoms Modified Asphalt Binders." Presented at the Annual Meeting of the Southeastern Asphalt User Producer Group, Jacksonville, FL, November 13-16, 2017.
43. Mohammad, L. N., Cooper III, S., "A case study of BMD implementation in Louisiana, Lessons learned." Presented at the Balanced Mix Design for Asphalt Mixtures Webinar Association of Asphalt paving Technologist, November 16, 2017.(Webinar Presentation)
44. Mohammad, L. N., "Evaluation of Various Hamburg Wheel-Tracking Devices and AASHTO T 324 Specification for Rutting Testing of Asphalt Mixtures." Presented at the 26th Annual RMAUPG Conference, Reno, Nevada, October 18-19, 2017.

45. Mohammad, L. N., You, T., Shi, Y., Daly, W. H., Negulescu, I. I., Balamurugan, S., Nazzal, M., Baumgardner, G., Daranga, C., "Rheological, Chemical, Mechanical Properties of Re-refined Engine Oil Bottoms Modified Binder." Presented at the FHWA Asphalt Binder Expert Task Group Meeting, Bozeman, MT, September 19-20, 2017.
46. Mohammad, L. N., Cao, W., "Development of Mix Design and Analysis Procedures for Asphalt Mixtures Containing High-RAP Contents." Presented at the FHWA Asphalt Mixture Expert Task Group Meeting, Bozeman, Montana, September 20-21, 2017.
47. Mohammad, L. N., "Comparison of Volumetric and Mechanical Properties of Lab and Field Specimens of Asphalt Concrete." Presented at the 10th International Conference on Road and Airfield Pavement Technology, The Hong Kong Polytechnic University, Hong Kong, August 8 – 10, 2017.
48. Mohammad, L. N., "Implementation of a Balanced Asphalt Mixture Design Procedure." Presented at the 2017 GeoMEast International Congress and Exhibition, Sharm Elsheikh, Egypt, July 15-19, 2017. (*Keynote Speaker*)
49. Mohammad, L. N., "Innovations in Balanced Asphalt Mixture Design." Presented at the Jiangsu Transportation Institute, Nanjing, China, July 10, 2017. (*Keynote Speaker*)
50. Mohammad, L. N., "Innovations in Sustainable Pavement Materials and Technologies in Flexible Pavements." Presented at the 2nd Transportation Research Congress, University of Science and Technology, Beijing, China, May 23, 2017. (*Keynote Speaker*)
51. Mohammad, L. N., "Innovations in Asphalt Mixture Design and Construction." Presented at the Workshop on Research Frontier and Reviews, University of Science and Technology, Beijing, China, May 23, 2017.
52. 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).
53. 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.
54. 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.
55. 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.
56. Mohammad, L. N., Elseifi, M, and Das, R., "The Effect of Tack Coats on Asphalt Pavement Performance." Presented at the AFK40 Committee Meeting, 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.

57. Mohammad. L. N., Kim, M., Phaltane, P., and Mata, D., “Effects of Temperature Segregation on Density, Fracture Resistance, and Rutting Performance of Asphalt Mixtures.” Presented at the 2016 Annual Meeting of the Southeastern Asphalt User Producer Group, Corpus Christi, Texas, November 15 - 17, 2016.
58. Mohammad. L. N., Elseifi, M., and Das, R., “The Effect of Tack Coats on Asphalt Pavement Performance.” Presented at the 2016 International Symposium on Asphalt Emulsion Technology, Arlington, Virginia, November 1 - 4, 2016.
59. Mohammad. L. N., “Innovations in Balanced Asphalt Mixture Design.” Presented at the 2016 International Conference on Transportation Infrastructure and Materials, Chang’an University, Xi’an, China, July 16-18, 2016.
60. Mohammad. L. N., and Kim, M., and Phaltane, P., “Effects of Temperature Segregation on the Quality of Asphalt Pavements.” Presented at the LAPA Annual Meeting, Point Clear, Alabama, June 1-5, 2016. (*Invited Guest Speaker*)
61. Mohammad. L. N., and Cao, w., “Develop Mix Design and Analysis Procedures for Asphalt Mixtures Containing High-RAP Contents – TPF 5(294).” Presented at the FHWA Asphalt Mixture Expert Task Group, Salt Lake City, Utah, April 25 – 27, 2016.
62. Mohammad. L. N., "NCHRP Project 20-07/Task 361: Hamburg Wheel-Track Test (HWTT) Equipment Requirements and Improvements to AASHTO T 324." Presented at the FHWA Asphalt Mixture Expert Task Group, Salt Lake City, Utah, April 25 – 27, 2016.
63. Mohammad. L. N., “Deployment of Performance Tests During Asphalt Mixture Design: Louisiana's Approach.” Presented at the 2016 Ohio Asphalt Expo, Columbus, Ohio, March 30-31, 2016.
64. 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.
65. Mohammad. L. N., “Development and Implementation of Balanced Asphalt Mixture Design.” Presented at CI Summit, Orlando, Florida, March 9-12, 2016.
66. 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.
67. 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.
68. 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.

69. 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.
70. 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.
71. Mohammad. L. N., “NCHRP Project 9-48: Field versus Laboratory Volumetrics and Mechanical Properties, Presented at the 2015 SEAUPG Annual Meeting, Williamsburg, Virginia, November 16-19, 2015.
72. Mohammad. L. N., “Development of Louisiana’s Rubberized Asphalt Binder Specification: PG 82-22rm.” Presented at the 2015 Rubberized Asphalt/Asphalt Rubber Conference, Las Vegas, Nevada, October 4-7, 2015.
73. Mohammad. L. N., “NCHRP Project 9-40: Optimization of Tack coat for HMA Placement: Summary of Research Results.” Presented at the Faculty of Engineering University of Manitoba, Winnipeg, Manitoba, August 27, 2015.
74. Mohammad. L. N., “Implementation of Performance Tests During Asphalt Mixture Design Containing Recycled Materials.” Presented at the Faculty of Engineering University of Manitoba, Winnipeg, Manitoba, August 27, 2015.
75. Mohammad. L. N., “Implementation of Performance Tests During Asphalt Mixture Design Containing Recycled Materials.” Presented at the 9th International Conference on Road and Airfield Pavement Technology, Dalian, China, August 9-13, 2015 (Keynote Presentation).
76. Mohammad. L. N., "Sustainable Development: Material, Design, and Performance." Presented at the International Symposium on Systematic Approaches to Environmental Sustainability in Transportation, Fairbanks, Alaska, August 2-5, 2015 (Keynote Presentation).
77. 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).
78. 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).
79. 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.
80. 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.

81. Mohammad, L. N., “LTRC’s Asphalt Research Activities.” Presented at the Asphalt Institute Spring Meeting, New Orleans, Louisiana, April 16, 2015.
82. 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.
83. 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.
84. 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.
85. Mohammad, L. N., “Performance Tests of Asphalt Mixtures.” Presented at the 42nd Annual Rocky Mountain Asphalt Conference, Denver, Colorado, February 25 – 27, 2015.
86. Mohammad, L. N., “SCB Test at Intermediate Temperature.” Presented at the NCHRP 9-57 Cracking Test Webinar, February 3, 2015.
87. 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.
88. 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.
89. 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.
90. Mohammad, L. N., Cooper, Jr., S., “Design Consideration of Asphalt Mixtures Containing RAS and/or RAP: Impact of Recycling Agents.” Presented at the 2014 SEAUPG Annual Meeting, Nashville, Tennessee, November 17-20, 2014.
91. Mohammad, L. N., Elseifi, M., Cooper, III, S., “Status Update: NCHRP Project 9-48 Field versus Laboratory Volumetrics and Mechanical Properties.” Presented at the Mixture ETG Meeting, Baton Rouge, Louisiana, September 19, 2014.
92. Mohammad, L. N., Cooper, Jr., S., Daly, W. H., Negulescu, I., Balamurugan, S., “Design Consideration of Asphalt Mixtures Containing RAS: Impact of Recycling Agents.” Presented at the Asphalt Binder Expert Task Group, Baton Rouge, Louisiana, September 16-17, 2014.
93. Mohammad, L. N., Cooper, Jr., S., “Design Consideration for Asphalt Mixtures Containing Recycled Asphalt Shingles.” Presented at the 60th LAPA Annual Meeting, Point Clear, Alabama, May 28-June 1, 2014.

94. Mohammad, L. N., “Mechanistic-Empirical Pavement Design Guide: Approaches to Implementation.” Presented at the GeoShanghai 2014 International Conference, Shanghai, China, May 26-28, 2014. (Keynote Speaker)
95. Mohammad, L. N., “Develop Mix Design and Analysis Procedures for Asphalt Mixtures Containing High-RAP Contents.” Presented at the Southeastern Research Consortium Pooled Fund TPF-5(294) Kickoff Meeting, Baton Rouge, Louisiana, May 15, 2014.
96. Mohammad, L. N., Bennett, T., Heitzman, M., “Accelerated Project Delivery Automated Laboratory Tests.” Presented at the TRB AFK10 Committee Meeting of the Transportation Research Board, Reno, Nevada, April 23-24, 2014.
97. Mohammad, L. N., “Sustainable Development: The Use of Sustainable Pavement Materials and Technologies in Infrastructure.” Presented at the 53rd Annual South Dakota Asphalt Conference, Pierre, South Dakota, April 2-3, 2014.
98. Mohammad, L. N., Elseifi, M. A., Bae, A., Patel, N., Button, J., Scherocman, J. A., “Importance of Layer Bonding Through Tack Coat Materials.” Presented at the 53rd Annual South Dakota Asphalt Conference, Pierre, South Dakota, April 2-3, 2014.
99. Mohammad, L. N., “Balanced Asphalt Mixture Design Through Specification Modification: Louisiana’s Experience.” Presented at the 8th Annual RMAUPG Meeting, Santa Ana Pueblo, New Mexico, March 26-27, 2014.
100. Mohammad, L. N., Elseifi, M. A., Bae, A., Patel, N., Button, J., Scherocman, J. A., “Importance of Layer Bonding Through Tack Coat Materials.” Presented at the 2014 AAPT Annual Meeting Pavement Layer Bonding Symposium, Atlanta, Georgia, March 16-19, 2014.
101. Mohammad, L. N., “Laboratory Evaluation of Asphalt Mixtures Containing Modified Binders.” Presented at the 2014 AAPT Annual Meeting Leading Edge Workshop, Atlanta, Georgia, March 16-19, 2014.
102. Mohammad, L. N., “Design Consideration for Asphalt Mixtures Containing Recycled Asphalt Shingles .” Presented at the 15th Annual AMAP Annual Meeting, New Orleans, Louisiana, February 18-20, 2014.
103. Mohammad, L. N., “Sustainable Pavement Materials and Technologies .” Deliver keynote lecture, Conference of the Transportation Research Group of India, Agra, India, December 12-15, 2013.
104. Mohammad, L. N., "NCHRP Project 9-40A Field Implementation of the Louisiana Interface Shear Strength Test." Presented at the 2013 SEAUPG Annual Meeting, Baton Rouge, Louisiana, November 13- 15, 2013.
105. Mohammad, L. N., "Use of Sustainable Technologies in Asphalt Mixtures." Presented at FHWA’s Sustainable Pavements TWG, Baton Rouge, Louisiana, November 13- 14, 2013.

106. Mohammad, L. N., "Sustainable Pavement Systems: Material, Design, and Construction." Presented at the FIU/MIT Transportation Infrastructure Sustainability Summit, Miami, Florida, October 29, 2013.
107. Mohammad, L. N., "Approaches to the Evaluation of Sustainable Materials in Flexible Pavements." Presented at the Recycling Symposium, Auburn, Alabama, October 14-15, 2013.
108. Mohammad, L. N., "Development of Louisiana's Balanced Asphalt Mixture Design: Application of Recycled Materials." Presented at the Recycling Symposium, Kansas City, Missouri, July 21 – 22, 1, 2013.
109. Mohammad, L. N., "The Use of Sustainable Technologies in Asphalt Mixtures." Presented at The 59th LAPA Annual Meeting, Point Clear, AL, May 29- June 1, 2013. (*Invited Guest Speaker*)
110. Mohammad, L. N., "A New Approach to Evaluate Moisture Damage of Asphalt Mixtures." Presented at The 3rd International Workshop on Moisture-Induced Damage in Asphalt Mixtures, Doha, Qatar, April 23-24, 2013. (*Invited Guest Speaker*).
111. Mohammad, L. N., "Asphalt Research Program at the Louisiana Transportation Research Center." Presented at the 2013 TRB AFK 10 Committee Meeting, Irvine, CA, April 23-24, 2013.
112. Mohammad, L. N., "The Use of SCB Test to Ascertain Fracture Resistance of Asphalt Mixtures at Intermediate Temperature – Toward a Balanced Mixture Design." Presented at the 2013 Association of Asphalt Paving Technologist Annual Meeting, Denver, CO, April 7-10, 2013.
113. Mohammad, L. N., "Balanced Asphalt Mixture Design: Louisiana's Approach." Presented at the Association of Modified Asphalt Producers 14th Annual Workshop and Conference, San Antonio, TX, March 19-21, 2013.
114. 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.
115. 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.
116. 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.
117. 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.

118. 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.
119. 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.
120. 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.
121. 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*)
122. 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.
123. 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.
124. 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.
125. 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.
126. 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.
127. 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.
128. 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.
129. Mohammad, L. N., “A New Approach to Evaluate Moisture Damage of Asphalt Mixtures.” Presented at the 2011 SEAUPG Annual Meeting, Savannah, Georgia, November 15-17, 2011.

130. Mohammad, L. N., "A New Approach to Evaluate Moisture Damage of Asphalt Mixtures." Presented at the 2011 SEAUPG Annual Meeting, Savannah, Georgia, November 15-17, 2011.
131. Mohammad, L. N., "Louisiana Case Study: Implementation of CRM Binder in PG specification." Presented at the 5th Rubber Modified Asphalt Conference, Austin, Texas, November 3-4, 2011.
132. Mohammad, L. N., "Results of NCHRP Project 9-40: The Importance of Tack Coat to Pavement Performance." Presented at the 2011 Ohio Transportation Engineering Conference, Columbus, Ohio, October 25-26, 2011.
133. Mohammad, L. N., "Optimization of Tack coat for HMA Placement." Presented at the Louisiana Department of Transportation and Development Asphaltic Pavement specifications Committee Meeting, Baton Rouge, Louisiana, July 13, 2011.
134. Mohammad, L. N., "Application of Laboratory Performance Tests in the Design of Asphaltic Concrete Mixture." Presented at the Main Road Division of the Abu Dhabi Department of Transport, Abu Dhabi, United Arab Emirates, June 14, 2011. (Keynote speaker)
135. Mohammad, L. N., "Asphalt Research Program Louisiana Transportation Research Center." Presented at the Changsha University of Science and Technology, Changsha, China, June 8, 2011.
136. Mohammad, L. N., "Mechanistic Analysis of Asphalt Mixtures Containing Sustainable Technologies." Presented at the International Symposium on Pavement and Geotechnical Engineering for Transportation Infrastructure, Nanchang, Jiangxi, China, June 5-7, 2011. (Keynote speaker)
137. Mohammad, L. N., "Use of Waste Tires in Asphalt Mixtures: The Sustainable Choice." Presented at the 2011 Institute of Scrap Recycling Industries Convention and Exposition, Los Angeles, California, April 8, 2011.
138. 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.
139. 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.
140. Mohammad, L. N., "Graduate Studies at Louisiana State University." Presented at the University of Jordan, Amman, Jordan, December 20, 2010.
141. 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.

142. 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.
143. 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.
144. Mohammad, L. N., "Results of NCHRP 9-40: Tacking Your Way to Performance." Presented at the 54th Annual Kansas Asphalt Paving Conference, Lawrence, Kansas, December 2, 2010.
145. Mohammad, L. N., "Mechanistic Characterization of Sustainable materials for Pavement Infrastructure." Presented at the 23rd Rhode Island Transportation Forum, Kingston, Rhode Island, October 29, 2010. (Keynote Speaker)
146. Mohammad, L. N., "Superpave: Research to Implementation." Presented at the Superpave Seminar for Lafayette Consolidated Government, Baton Rouge, Louisiana, October 20, 2010.
147. Mohammad, L. N., "Application of Mechanistic Tests for Performance of HMA Mixtures." Presented at the Jordanian Ministry of Public Work, Amman, Jordan, August 18, 2010.
148. Mohammad, L. N., "Fundamental Characterization of Sustainable Materials for Pavement Infrastructure." Presented at the US-China Workshop on Energy and Environment in the Development of Sustainable Asphalt Pavements, Chang'an University, Xi'an, China, June 7-9, 2010.
149. Mohammad, L. N., and King, B., "Louisiana's Experience with the Use of Waste Tires in Asphalt Mixtures." Presented at the 51st Louisiana Asphalt Pavement Association Convention, Point Clear, Alabama, June 2-6, 2010.
150. Mohammad, L. N., and Cooper, S., "Sustainable Materials for Pavement Infrastructures." Presented at the 51st Louisiana Asphalt Pavement Association Convention, Point Clear, Alabama, June 2-6, 2010.
151. 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.
152. Mohammad, L. N., "Sustainable Materials for Pavements." Presented at the 2010 Transportation Research Board AFK 10 Committee Meeting, Phoenix, Arizona, April 7-8, 2010.
153. 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.

154. Mohammad, L. N., Bae, A., Elseifi, M., Button, J., and Patel, N., "Effects of Pavement Surface Type and Sample Preparation Method on Tack Coat Interface Shear Strength." Presented at the LTRC Seminar Series: 2010 Transportation Research Board Paper Presentations, Baton Rouge, Louisiana, March 23-24, 2010.
155. Mohammad, L. N., "NCHRP: 9-40: Optimization of Tack Coat for HMA Placement." Presented at the 2010 Asphalt Pavement Conference, Cincinnati, Ohio, February 15-16, 2010.
156. Mohammad, L. N., "Results of NCHRP 9-40: Tacking Your Way to Performance." Presented at the 2010 NCAUPG Hot Mix Asphalt Technical Conference, Overland Park, Kansas, February 3-4, 2010.
157. Mohammad, L. N., "Approaches to Characterize Asphalt Mixtures for the Mechanistic-Empirical Pavement Design Guide." Presented at the IRF Middle East Regional Congress, Riyadh, Kingdom of Saudi Arabia, December 8-9, 2009.
158. Mohammad, L. N., "Louisiana's Experience with WMA: Laboratory Performance Evaluation." Presented at the Warm Mix Seminar & Demonstration, Baton Rouge, Louisiana, October 22-23, 2009.
159. Mohammad, L. N., "NCHRP Project 9-40 Update: Optimization of Tack Coat for HMA Placement – Research Update." Presented at the 50th Louisiana Asphalt Pavement Association Convention, Point Clear, Alabama, June 3-7, 2009. (*Invited Guest Speaker*)
160. Mohammad, L. N., and Cooper, S., "Laboratory Performance of HMA Mixtures Containing High RAP Content with Crumb Rubber Additives." Presented at the Southeastern Pavement Preservation Partnership Meeting, New Orleans, Louisiana, May 12-14, 2009.
161. Mohammad, L. N., "A Review of the Asphalt Research Program at the Louisiana Transportation Research Center," Presented at the 2009 Transportation Research Board ARK 10 (General Issues in Asphalt Technology) Committee Meeting, Woods Hole, Massachusetts, April 28-30, 2009.
162. Mohammad, L. N., "Application of Mechanistic Tests for Performance of HMA Mixtures." Presented at the 2009 Louisiana Transportation Conference, Baton Rouge, Louisiana, February 8-11, 2009
163. Cooper, S., and Mohammad, L. N., "Characterization of HMA Mixtures Containing High Recycled Asphalt Pavement Content and Crumb Rubber Additives." Presented at the 2009 Louisiana Transportation Conference, Baton Rouge, Louisiana, February 8-11, 2009.
164. 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.
165. 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.

166. 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.
167. 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.
168. 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*)
169. 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.
170. 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.
171. 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.
172. 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.
173. 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.
174. 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.
175. 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.
176. 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*)
177. 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*)

178. 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.
179. 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.
180. 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.
181. 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.
182. 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.
183. 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, Galveston, Texas, June 7-11, 2006. (*Invited Guest Speaker*)
184. Mohammad, L. N., “Application of DCP in Prediction of Resilient Modulus of Subgrade Soils.” Presented at the 2006 Louisiana Pavement Performance Seminar, Ruston, Alexandria, and Baton Rouge, Louisiana, April 10, 11, 12, 2006, respectively.
185. Mohammad, L. N., “Performance of Stone & RAP Interlayers Under Accelerated Load Testing.” Presented at the 2006 Louisiana Pavement Performance Seminar, Ruston, Alexandria, and Baton Rouge, Louisiana, April 10, 11, 12, 2006, respectively.
186. Mohammad, L. N., “Laboratory Optimization of Asphalt Concrete Mixture Design.” Presented at the Third Gulf Conference on Roads, Muscat, Oman, March 6-8, 2006. (*Key Note Speaker*)
187. 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.
188. 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.
189. 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*)

190. 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*)
191. 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.
192. 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.
193. 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.
194. Mohammad, L. N., “Factors Affecting HMA Mixtures’ Densification.” Presented at Louisiana Asphalt Technology Conference, Shreveport, Louisiana, February 23-24, 2005.
195. Mohammad, L. N., “Overview of Activities at the Louisiana Transportation Research Center.” Presented at the Kiwanis Club of Baton Rouge, January 27, 2005.
196. Mohammad, L. N., “Laboratory Evaluation of Asphalt Tack Coat Materials.” Presented at the 2004 Southeastern Asphalt User Producer Group Annual Meeting, Baton Rouge, Louisiana, November 15-18, 2004.
197. Mohammad, L. N., “Factors Influencing the Permeability of Hot-Mix Asphalt Mixtures.” Presented at the Superpave Mixture Design Task Group, 2004 Southeastern Asphalt User Producer Group Annual Meeting, Baton Rouge, Louisiana, November 15-18, 2004.
198. Mohammad, L. N., “History of the Development of Superpave Mixture Design.” Presented at the 1st International Conference on Pavement Engineering: Rehabilitation & Maintenance, Hefei, China, June 28 - July 2, 2004. (*Key Note Speaker*)
199. Mohammad, L. N., “Variability of Density and Strength Properties of Plant Produced HMA Mixtures.” Presented at the 45th Annual Convention of the Louisiana Asphalt Pavement Association, Pointe Clear, AL, June 2-6, 2004. (*Invited Guest Speaker*)
200. Mohammad, L. N., “Strength Testing of HMA Mixtures.” Presented at the FHWA Mobile Asphalt Trailer “Kick-off” Meeting, Baton Rouge, LA, March 24, 2004.
201. Mohammad, L. N., “Resilient Modulus of Cement-Treated Cohesive Soils.” Presented at the Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 16-18, 2004.
202. 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.

203. 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*)
204. Mohammad, L. N., “A Review of Bond Coats in the USA.” Presented at the Asphalt Emulsion Manufacturing Association 30th Annual Meeting, , Nashville, Tennessee, March 19-22, 2003.
205. Mohammad, L. N., “Approaches to the Implementation of Superpave Technology.” Presented to the Civil Engineering Department & Institute of Materials Systems, American University of Sharjah, Sharjah, United Arab Emirates, November 25, 2002.
206. Mohammad, L. N., “Permeability Measurements of Hot Mix Asphalt Mixtures.” Presented at the 43th Annual Convention of the Louisiana Asphalt Pavement Association, San Antonio, Texas, June 12-16, 2002. (*Invited Guest Speaker*)
207. Mohammad, L. N., “The Influence of Asphalt Tack Coat Materials on the Interface Shear Strength.” Presented at the Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 17-20, 2002.
208. Mohammad, L. N., “The Application of Minicone Penetration Technology in Pavement Design.” Presented at the Louisiana Transportation Engineering Conference, Baton Rouge, LA, February 17-20, 2002.
209. Mohammad, L. N., “Superpave: Research to Implementation.” Presented at the 3rd Jordanian Civil Engineering Conference, Amman, Jordan, October 29-31, 2001. (*Invited Key Note Speaker*)
210. Mohammad, L. N., “Development of Models to Estimate the Resilient Modulus of Soft Soils from CPT .” Presented at the 2001 ASCE/ACI Louisiana Civil Engineering Conference, September 13-14, 2001, New Orleans, Louisiana.
211. Mohammad, L. N., “The Application of Intrusion Technology in Flexile Pavement Design.” Presented at the Cone Penetration Testing Technology Seminar, Baton Rouge, LA, March 26-27, 2001, Alexandria, LA, March 28, 29, 2001.
212. Mohammad, L. N., “Louisiana’s Experience with Accelerated Loading.” Presented at the Alabama Transportation Engineering Conference, Montgomery, AL, February 13, 2001.
213. 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.
214. 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.
215. 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.

216. 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*)
217. 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.
218. 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.
219. 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.
220. 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.
221. 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.
222. 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*)
223. 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.
224. 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.
225. Mohammad, L. N., “SuperpaveTM Technology: A Brief Overview and LADOTD Training Activities.” Presented at the Louisiana DOTD SuperpaveTM Asphaltic Concrete Hot Mix Meeting, Baton Rouge, Louisiana, August 20, 1997.
226. Mohammad, L. N., “Introduction to SuperpaveTM Technology.” Presented at the LADOTD District LAB Engineers Meeting, Baton Rouge, Louisiana, August 7-8, 1997.
227. 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.

228. 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.
229. 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.
230. 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*)
231. 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. Bannoura, D., Tashman, L., and Mohammad, L. N., "Application of Sustainable Pavement Design in Jordan Using AASHTO Pavement ME. Presented at the 11th International Conference on Managing Pavement Assets, Chicago, IL, June 7-June 10, 2022.
2. Elnaml, I, Mousa, M., Hassan, M., Idris, I., Mohammad, L. N., "Development of Cost-Effective, High-Modulus Asphalt Concrete Mixtures Using Crumb Rubber and Local Construction Materials in Louisiana." Poster Presentation. Transportation Research Board 101st Annual Meeting, Washington D.C., January 9-13, 2022.
3. Akentuna, M., Mohammad, L. N., Boaten, K., and Cooper, Jr., S., "Warm Mix Asphalt Demonstration Projects in Louisiana: Case Study of 5 to 8 Years of Field Performance." Poster Presentation. Transportation Research Board 101st Annual Meeting, Washington D.C., January 9-13, 2022.
4. Akentuna, M., Mohammad, L. N., Sachdeva, S., Cooper, III, S., and Cooper, Jr., S., "Mechanistic Evaluation of Asphalt Mixtures Progressive Moisture Damage." Poster Presentation. Transportation Research Board 101st Annual Meeting, Washington D.C., January 9-13, 2022.
5. Al-Hosainat, A., Nazzal, M., Kim, S., Mohammad, L., N., Abbas, A., Biehl, E., Ricciardi, P., and Talha, S., "Evaluation of the Interlayer Bond Strength of Micro-Surfacing Mixes." Poster Presentation. Transportation Research Board 101st Annual Meeting, Washington D.C., January 9-13, 2022.
6. Barghabany, P., Zhang, J., Mohammad, L. N., Cooper III, S, and Cooper Jr., "Effect of Laboratory Aging Levels on Asphalt Binder Chemical/Rheological Properties and Fracture Resistance of Asphalt Mixture." Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C., January 24-28, 2021.
7. Hungria, R., Arce, G., Hassan, M., Mohammad, L. N., Rupnow, T., and Moinul Mahdi, "Interface Bond Strength of Engineered Cementitious Composites (ECC) in Pavement

- Applications.” Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C., January 24-28, 2021.
8. Subedi, S., Arce, G., Hassan, M., Barbato, M., and Mohammad, L. N., “Effect of Raw Sugarcane Bagasse Ash as Sand Replacement on the Fiber-Bridging Properties of Engineered Cementitious Composites.” Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C., January 24-28, 2021.
 9. Subedi, S., Arce, G., Hassan, M., Mohammad, L. N., Rupnow, T., and Barbato, M., “Feasibility of Engineered Cementitious Composites with High Volumes of Post-Processed Bagasse Ash as Partial Cement Replacement.” Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C., January 24-28, 2021.
 10. 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., January 24-28, 2021.
 11. Barghabany, P., Zhang, J., Mohammad, L. N., Cooper III, S, and Cooper Jr., ”A Novel Model to Predict Fracture Parameter SCB Jc for Asphalt Mixtures Using an Artificial Neural Network Approach.” Poster presentation at the 100th Annual Meeting of Transportation Research Board, Washington, D.C., January 24-28, 2021.
 12. Akentuna, M., Mohammad, L. N., Sachdeva, S., Cooper, III, S., and Cooper, Jr., S., "Effectiveness of Loaded Wheel Tracking Test to Ascertain Moisture Susceptibility of Asphalt Mixtures." Poster Presentation. Transportation Research Board 100th Annual Meeting, Washington D.C., January 24-28, 2021.
 13. Akentuna, M., Mohammad, L. N., Kim, M., Cooper III, S, and Cooper Jr., ”Improving Durability of Asphalt Pavements in Louisiana through Increased In-Place Field Density.” Presented at the 99th Annual Meeting of Transportation Research Board, Washington, D.C., January 12-16, 2020.
 14. Barghabany, P., Cao, W., Mohammad, L. N., Cooper III, S, and Cooper Jr., ”Relationships amongst Chemistry, Rheology, and Fracture/Fatigue Performance of Recovered Asphalt Binder and Asphalt Mixtures Containing RAP.” Poster presentation at the 99th Annual Meeting of Transportation Research Board, Washington, D.C., January 12-16, 2020.
 15. Balamurugana, S., Mohammad, L. N., Akentuna, M., Daly, W., Negulescu, I., Cooper, III, S., Cooper, Jr., S., and Baumgardner, G., "Impact of Crumb Rubber Modifier Type and Blending Temperature on Asphalt Binder and Mixture Properties." Presented at the 2019 AAPT Annual Meeting, Dallas, Texas, March 3-6, 2019.
 16. Nazzal, M., Mohammad, L. N., Abbas, A., and Kim, S., "State of Practice on the Use of Tack Coats for Micro-Surfacing Applications: A Survey." Presented at the 2019 AAPT Annual Meeting, Dallas, Texas, March 3-6, 2019.
 17. Barghabany, P., Cao, W., Mohammad, L. N., Cooper III, S, and Cooper Jr., S, “Reclaimed Asphalt Pavement (RAP): Relationship between Rheological and Mixture Performance at

- Intermediate Temperatures." Poster presentation at the 98th Annual Meeting of Transportation Research Board, Washington, D.C., January 13-17, 2019.
18. Shi, Y., Cao, W., Mohammad, L. N., Cooper III, S, Cooper Jr., S, and Negulescu, I., "Influence of Laboratory Aging on Asphalt Binders and Intermediate-Temperature Cracking Resistance of Asphalt Mixtures." Poster presentation at the 98th Annual Meeting of Transportation Research Board, Washington, D.C., January 13-17, 2019.
 19. Das, R., Mohammad, L. N., Elseifi, M., Cao, W., Cooper Jr., S., "A Direct Shear Approach to Assess the Interface Bonding Performance." Presented at the 2018 AAPT Annual Meeting, Jacksonville, FL, March 18-21, 2018.
 20. 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.
 21. 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.
 22. 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.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. 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.

28. 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.
29. 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.
30. 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.
31. 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.
32. Wu, S., Zhang, W., Shen, S., and Mohammad, L. N., "Case Study: Short-term Performance and Material Property Evolution of 1 Warm Mix Asphalt and Hot Mix Asphalt Pavements." Presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017
33. 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." Presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
34. Cao, W., Mohammad, L. N., Elseifi, M., and Cooper, III, S., "Asphalt Pavement Fatigue Performance Prediction Based on Semi-Circular Bend Test at Intermediate Temperature." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
35. Aguirre, M., Hassan, M., Shirzad, S., Mohammad, L. N., and Cooper, Jr., S., "Evaluation of Self-Healing Mechanism in Asphalt Mixtures Containing Recycled Asphalt Shingles." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
36. Arce, G., Hassan, M., Rupnow, T., and Mohammad, L.N., "Evaluation of Self-Healing Mechanisms on SMA and Steel Reinforced Mortar with Calcium Nitrate Microcapsules." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
37. Abu-Farsakh, M., Hanandeh, S., Chen, Q., and Mohammad, L. N., "Performance Evaluation of Geosynthetic Reinforced Flexible Pavement using Full-Scale Accelerated Loading Test." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.

38. 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." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
39. Shirzad, S., M., Hassan, M., Aguirre, M., Mohammad, L. N., and Cooper, Jr., S., "Evaluation of Self-Healing Process Induced by Sunflower Oil Microcapsules in Asphalt Mixtures." Poster presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8-12, 2017.
40. 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 Transportation Research Board, Washington, D.C., January 8-12, 2017.
41. Cooper, Jr., S., Mohammad, L. N., Balamurugan, S., Negulescu, I., Daly, W., and Baumgardner, G., "Asphalt Mixtures Containing RAS and/or RAP: Relationships amongst Binder Composition Analysis and Mixture Intermediate Temperature Cracking Performance." Presented at the 2016 AAPT Annual Meeting, Indianapolis, Indiana, March 13-16, 2016.
42. Kim, M., Mohammad, L. N., Phaltane, P., and Elseifi, M., "Effects of Temperature Segregation on the Quality and Fracture Resistance of Asphalt Pavements." Presented at the 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-14, 2016.
43. Cooper, Jr., S., Cooper, III, S., Mohammad, L. N., and Elseifi, M., "Development of a Predictive Model Based on Artificial Neural Network for the Semi-Circular Bend Test." Presented at the 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-14, 2016.
44. Cooper, Jr., S., Mohammad, L. N., and Elseifi, M., "Effects of Re-refined Engine Oil Bottoms on the Laboratory Performance of Asphalt Mixtures Containing Recycled Asphalt Shingles." Presented at the 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-14, 2016.
45. Cooper, III, S., Mohammad, L. N., and Elseifi, M., "Effects of Mixture Constituents and Reheating on the Mechanical Properties of Asphalt Mixtures." Presented at the 95th TRB Annual Meeting, Washington, D.C., January 10-14, 2016.
46. Mohammad, L. N., Cooper Jr., Sam., "Aging and Rejuvenators: Understanding Their Impact on High RAP Mixtures Fatigue Cracking Characteristics Using Advanced Mechanistic Models and Testing Methods." Presented at the 90th Annual Meeting & Technical Sessions, Portland, Oregon, March 11, 2015.
47. Kim, Minkyum,, Mohammad, L. N., Challa, Harshavardhan., Elseifi, Mostafa. A., "A Simplified Performance-Based Specification for Asphalt Pavements." Presented at the 2015 AAPT Annual Meeting Leading Edge Workshop, Portland, Oregon, March 8 – 11, 2014.

48. Kim, M., Mohammad, L. N., Challa, H., Elseifi, M. A., “Permanent Deformation in Flexible Pavements: Laboratory and Field Performance Comparisons.” Presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C., January 11-15, 2015.
49. Cooper, S., Mohammad, L. N., Elseifi, M., Raghavendra, A., “Effects of Specimen Type on Laboratory-Measured Dynamic Modulus of Asphalt Mixtures and Predicted Pavement Performance.” Presented at the 94th TRB Annual Meeting, Washington D.C., January 11-15, 2015.
50. Cooper, III, S., Mohammad, L. N., Elseifi, M., Raghavendra, A., “Effects of Specimen Orientation on the Laboratory Measured Dynamic Modulus and Predicted Performance of Asphalt Mixtures.” Presented at the 94th TRB Annual Meeting, Washington D.C., January 11-15, 2015.
51. Cooper, Jr., S., Mohammad, L. N., Elseifi, M., “Infrastructure Sustainability: The Use of Recycled Asphalt Shingles in Flexible Pavements.” Presented at the GeoShanghai 2014 International Conference, Shanghai, China, May 26-28, 2014.
52. Cooper, Jr., S., Mohammad, L. N., Elseifi, M. A., “Laboratory Performance of Asphalt Mixtures Containing Recycled Asphalt Shingles.” Presented at the 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2014.
53. Shen, S., Zhang, W., Wu, S., Mohammad, L. N. “Investigation of the Effect of Warm Mix Asphalt Properties on the Predicted Pavement Performance Using Pavement ME Analysis Program.” Presented at 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12 - 16, 2014.
54. Mogawer, W. S., Austerman, A. J., Kluttz, R., Mohammad, L. N., “Performance-Based Specifications for High-Performance Thin Overlay Mixtures Incorporating Reclaimed Asphalt Pavement.” Presented at the Transportation Research Board 2014 Session 748, Massachusetts, January 15, 2014.
55. Dylla, H., Asadi, S., Hassan, M., Mohammad, L. N., “Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies.” Presentation at the AAPT 2013 Annual Meeting, Denver, CO, April 7-10, 2013.
56. Mogawer, W., Austerman, A., Mohammad, L. N., Kutay, M., “Evaluation of high RAP-WMA asphalt rubber mixtures.” Presentation at the AAPT 2013 Annual Meeting, Denver, CO, April 7-10, 2013.
57. Mohammad, L. N., Elseifi, M., Cooper, III, S., Challa, H., Naidoo, P., “Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies.” Poster Presentation at the 92nd Annual Meeting of the Transportation Research Board, Washington D.C., January 13-17, 2013
58. Kim, M., Mohammad, L. N., Elseifi, M., Challa, H., “Permanent Deformation of Flexible Pavements: Laboratory and Field Performance Comparisons.” Poster Presentation at the 92nd Annual Meeting of the Transportation Research Board, Washington D.C., January

13-17, 2013.

59. Mohammad, L. N., Cooper, III. S., Challa, H., "Laboratory Performance Asphalt Mixtures Containing Bio-Binders,." Presented at the 2013 Airfield and Highway Pavement Conference, Los Angeles, California, June 11, 2013.
60. Kabir, M., King, B., Mohammad, L. N., "Round Robin Evaluation of Automated Testing Equipment for Related Asphalt Materials." Poster Presentation at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.
61. Mohammad, L. N., Cooper, Jr. S., Elseifi, M., "Field Performance of Projects Containing Crumb Rubber Modified Asphaltic Concrete." Presented at the 5th Asphalt Rubber Conference, Munich, Germany, October 23 - 26, 2012.
62. 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.
63. 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.
64. 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.
65. Mohammad, L. N., Kim, M., Raghavendra, A., Obulareddy, S., "Characterization of Louisiana Asphalt Mixtures Using Simple Performance Tests and MEPDG." Presented at the Project Review Committee Meeting – Final Presentation, Baton Rouge, Louisiana, April 19, 2012.
66. Hassan, M., Mohammad, L. N., Dylla, H., Asadi, S., Cooper, III. S., "Laboratory and Field Evaluation of Sustainable Photocatalytic Asphalt Pavements." Presented at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.
67. Elseifi, M., Mohammad, L. N., Ying, H., Cooper, III. S., "Modeling and Evaluation of the Cracking Resistance of Asphalt Mixtures Using the Semi-Circular Bending Test at Intermediate Temperatures." Presented at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.
68. Vallabhu, B., Cooper, III. S., Mohammad, L. N., "Fundamental Characterization of Asphalt Mixtures: Warm Mix Asphalt Technologies in Flexible Pavement Systems." Poster Presentation at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.
69. Cooper, III. S., Challa, H., Mohammad, L. N., "Fundamental Characterization of Asphalt Mixtures: Green Asphalt Technologies in Flexible Pavement Systems." Poster Presentation at the 2012 AAPT Annual Meeting, Austin, Texas, April 1-4, 2012.
70. Cooper, III. S., Challa, H., Mohammad, L. N., "Laboratory Performance of Green Asphalt in Flexible Pavement Systems." Poster Presentation at the 2012 AAPT Annual Meeting,

Austin, Texas, April 1-4, 2012.

71. Mohammad, L. N., Elseifi, M., Cooper, III. S., Raghavendra, A., "Effects of Volumetric and Mechanistic Test Variability on Predicted Performance of Asphalt Pavements Using the MEPDG." Presented at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.
72. Mohammad, L. N., Hassan, M., Cooper, III. S., Dylla, H., "Laboratory Evaluation of Asphaltic Mixtures Containing Titanium Dioxide Photocatalyst." Poster Presentation at the 91st Annual Meeting of the Transportation Research Board, Washington D.C., January 22-26, 2012.
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