Dr. Louay Mohammad is a national and international expert in the area of Highway Construction Materials, Pavement Engineering/Materials. He is a Professor of Civil and Environmental Engineering (CEE) and holder of the Irma Louise Rush Stewart Distinguished Professorship and the Transportation Faculty Group Coordinator at Louisiana State University (LSU). He also serves as the director of the Engineering Materials Characterization and Research Facility (EMCRF) at Louisiana Transportation Research Center (LTRC). Dr. Mohammad teaches and conducts research in the area of Highway Construction Materials, Pavement Engineering, Accelerated Pavement Testing, Advanced Materials Characterization and Modeling, and Infrastructure Sustainability.

Dr. Mohammad was instrumental in establishing a graduate Transportation Engineering specialty program in the CEE Department at LSU. In 2003, he was appointed as the coordinator of the Transportation Engineering Faculty Group, where he develops academic assignments for five transportation engineering faculty members in the Department. Dr. Mohammad has an extensive experience in curriculum development. He taught nine different courses at sixty nine occasions. In addition, numerous workshops, seminars, and short courses for contractors, consultants, material suppliers, parish engineers, and DOTD personnel, were developed and conducted. Furthermore, a minor in transportation engineering, within the CEE curriculum, was established during his tenure. He is also an active participant in the recent CEE department ABET accreditation. Dr. Mohammad has advised/co-advised 31 and 10 M.S. and Ph.D. students, respectively. Further, he was a member of graduate examining committees of over 30 M.S. and Ph.D. students at LSU. Dr. Mohammad also served as an external examiner for three Ph.D. students at the National University of Singapore and the University of Manitoba, Canada.

To promote undergraduate students' involvement in the asphalt technology area, Dr. was instrumental in the development and funding of seven undergraduate scholarships ($2,000 each) through the support of industry. These scholarships have been extremely popular among civil engineering students. Over 100 scholarships have been awarded since 1994. In fact, this scholarship program was featured in a national article titled "Scholarships Fuel Interest in Asphalt – Louisiana a Model for States" published by the National Asphalt Pavement Association. In addition, a major donation of $372,000 from Diamond B Construction Company, LLC of Alexandria, Louisiana was secured to establish the L. H. Bossier Asphalt Laboratory in the CEE Department at LSU.

Dr. Mohammad research is multidisciplinary, he collaborated with faculty from different areas of expertise, at LSU and other universities, as well as industry personnel to form research teams and provide a leadership role in pursuing funding from the Louisiana Department of Transportation and Development (LADOTD), US Department of Transportation (USDOT), Federal Highway Administration (FHWA), Louisiana Education Quality Support Funds (LEQSF), National Cooperative Highway Research Program

(NCHRP), United States Department of Agriculture, and National Science Foundation (NSF).

Dr. Mohammad served as the Principal/Co-Principal Investigator on more than 58 research projects totaling US$ 12.4 million, authored/coauthored more than 255 publications in pavement engineering including over 144 refereed journal papers, and delivered over 154 invited presentations at national and international conferences. He has developed many standard tests and mechanistic models that have impacted pavement materials characterization and performance, and contributed to implementation of the State-of Practice of asphalt mixture design through changes in asphalt specifications. Results from recently completed research projects have yielded three standard test procedures (AASHTO TP 114 Determining the Interlayer Shear Strength of Asphalt Pavement Layers, AASHTO TP 115 Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory, and Louisiana DOTD TR 330 Evaluation of Asphalt Mixture Fracture Resistance Using the Semi-circular Bend (SCB) Test at Intermediate Temperature) that characterize the performance of tack coat quality, interlayer bond strength, and intermediate temperature performance of asphalt mixtures. It is worth mentioning that LADOTD TR 330 is included in the newly developed Louisiana Specifications for Roads and Bridges.

Dr. Mohammad is currently the principal investigator for NCHRP Project 20-07/Task 361 *Hamburg Wheel-Track Test Equipment Requirements and Improvements to AASHTO T 324*, NCHRP Project 9-40A *Field Implementation of the Louisiana Interface Shear Strength Test*, NCHRP Project 9-48 *Field versus Laboratory Volumetrics and Mechanical Properties*, and co-principlal investigator for NCHRP Project 9-49A *Performance of WMA Technologies: Stage II – Long-term Field Performance*. He is past Chair of the Transportation Research Board (TRB) Committees AFK40: Committee on Characteristics of Bituminous-Aggregate Combinations to Meet Surface Requirements, past Chair of the American Society of Civil Engineers Bituminous Materials Committee, Chair of ASTM subcommittee D 4.25 on Bituminous Mixture Analysis, and member of TRB committee AFK10: General Issues in Asphalt Technology, TRB committee AFK30: Characteristics of Nonasphalt Components of Asphalt Paving Mixtures, TRB committee AFK50: Characteristics of Bituminous Paving Mixtures to Meet Structural Requirement, Associate Editor of ASCE Journal of Materials in Civil Engineering, and the Association of Asphalt Paving Technologists.

Dr. Mohammad has been recognized with the 2013 Best Paper Award of the 8th International Conference on Road and Airfield Pavement Technology, 2010 Distinguished Research Paper of the Journal of Engineering Research, the 2009, 2012, and 2015 Asphalt Rubber Ambassador Award, and the 2002 Association of Asphalt Paving Technologists Board of Directors Award of Recognition.