

CURRICULUM VITAE OF

MUSHARRAF ZAMAN

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EDUCATION:

Doctor of Philosophy (Civil Engineering; Geotechnical Engineering), University of Arizona, Tucson, Arizona, 1982. Dissertation Title - "Influence of Interface Behavior in Dynamic Soil-Structure Interaction Problems." Dissertation Supervisor - Dr. C.S. Desai.

Master of Engineering (Civil Engineering), Carleton University, Ottawa, Canada, 1979. Thesis Title - "Finite Element Analysis of Interaction Between An Elastic Circular Plate and An Isotropic Elastic Half-space." Thesis Supervisors - Dr. A.P.S. Selvadurai and Prof. W.H. Bowes.

B.Sc. in Engineering (Civil Engineering), Bangladesh University of Engineering and Technology, Dhaka, 1975 (First Class with Honors). Stood first in order of merit out of about 130 students.

POSITIONS HELD:

Oct. 2013-Present: **Director, Southern Plains Transportation Center**
Gallogly College of Engineering, The University of Oklahoma, Norman, Oklahoma 73019

July 2005-Dec. 2013: **Associate Dean for Research and Graduate Programs**
Gallogly College of Engineering, The University of Oklahoma, Norman, Oklahoma 73019

2010–Present: **Alumni Chair Professor of Petroleum and Geological Engineering**
Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma

July 1993-Present: **Professor (David Ross Boyd Prof. since 2003; Aaron Alexander Prof. since 2004)**
School of Civil Engineering and Environmental Science, The University of Oklahoma, Norman, Oklahoma.

June 1988-June 1993: **Associate Professor** (Tenured May 1988)
School of Civil Engineering and Environmental Science, The University of Oklahoma, Norman, Oklahoma.

Sept. 1982-May 1988: Assistant Professor

School of Civil Engineering and Environmental Science, The University of Oklahoma, Norman, Oklahoma.

May 19-Aug. 18, 1986: Summer Faculty Research Participant

Argonne National Laboratory (ANL), Argonne, Illinois.

Aug. 1981-Aug. 1982: Research Associate

Department of Civil Engineering and Engineering Mechanics, University of Arizona, Tucson, Arizona.

Sept. 1979-May 1981: Research Assistant

Department of Civil Engineering, Virginia Tech., Blacksburg, Virginia.

Sept. 1977 – Aug. 1979: Teaching Assistant

Department of Civil Engineering, Carleton University, Ottawa, Canada.

May 1975-July 1976: Lecturer in Civil Engineering

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

AREA OF SPECIALIZATION: Geotechnical Engineering, Geomechanics, Pavement Materials and Systems.

PROFESSIONAL REGISTRATION: Registered Professional Engineer (Oklahoma #16199).

PATENT: “Method and Apparatus for Predicting Density of Asphalt” (U.S. Patent #7,669,458; March 2, 2010).

REFEREED JOURNAL PUBLICATIONS:

214. “Effect of Additives and Aging on Moisture-Induced Damage Potential of Asphalt Mixes using Surface Free Energy and Laboratory-based Performance Tests” (Ali, S. A., Zaman, M., Ghabchi, R., Rahman, M. A., Ghos, S., Rani, S.). International Journal of Pavement Engineering, 23(2), 285-296. <https://doi.org/10.1080/10298436.2020.1742335>, 2022.
213. “Review of Strength Improvements of Biocemented Soils” (Xiao, Y., He, X., Zaman, M., Ma, G., Zhao, C.). International Journal of Geomechanics, 22(11), [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002565](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002565), 2022.
212. “Investigation of Stress State During Cement Hardening and its Effect on Failure of Cement Sheath in Shale Gas Wells” (Zhao, C., Li, J., Zaman, M.). Journal of Energy Resources and Technology, 144(8), 2022.
211. “Performance of Asphalt Mixes Containing Post-Consumer Recycled (PCR) Plastic using Balanced Mix Design Approach and Dry Process” (Ghos, S., Sumter, C., Cancino, P. C., Ali, S. A., Zaman, M., Hobson, K. R., Kalicki, G., Metzger, D.). Transportation Research Record, 2676(9). <https://doi.org/10.1177/03611981221088200>, 2022.
210. “Factors Contributing to Fatigue Cracking in Flexible Pavements in Oklahoma: A Case Study Using Laboratory and Field Investigation and AASHTOWare Simulation” (Ghos, S., Ali, S. A., Zaman, M., R., Larrain-Mendez, M., Behm, M.). Journal of Testing and Evaluation, 50(2), 20 pages. <http://dx.doi.org/10.1520/JTE20200652>, 2022.

209. "Moisture-Induced Damage Potential of Asphalt Mixes Containing Polyphosphoric Acid and Antistripping Agent" (Rani, S., Ghabchi, R., Ali, S. A., Zaman, M., O'Rear, E. A.). Road Materials and Pavement Design, 23(12), 2818-2838. <https://doi.org/10.1080/14680629.2021.2002180>, 2022.
208. "Rainfall-Induced Erosion of Biocemented Graded Slopes" (Xiao, Y., Ma, G., Wu, H., Lu, H., Zaman, M.). International Journal of Geomechanics, 22(1), [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002239](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002239), 2022.
207. "Effect of WMA additive on properties of PPA-Modified Asphalt Binders Containing Anti-Stripping Agent" (Ghabchi, R., Rani, S., Zaman, M., Ali, S. A.). International Journal of Pavement Engineering, 22(4), 418-431, 2021.
206. "Laboratory Characterization of Moisture-Induced Damage Potential of Asphalt Mixes Using Conventional and Unconventional Performance-Based Tests" (Ali, S. A., Ghabchi, R., Zaman, M., Rani, S., Rahman, M. A.). International Journal of Pavement Research and Technology, 15, 1209–1226, <https://doi.org/10.1007/s42947-021-00083-5>, 2022.
205. "Rutting and Moisture-Induced Damage Potential of Foamed Warm Mix Asphalt (WMA) Containing RAP" (Rahman, M. A., Ghabchi, R., Zaman, M., Ali, S. A.). Innovative Infrastructure Solutions, 6(3), 1-11, 2021.
204. "Technical Challenges of Utilizing Ground Tire Rubber in Asphalt Pavements in the United States" (Ghabchi, R., Arshadi, A., Zaman, M., March, F.). Materials, 14(6), 2021.
203. "Evaluation of Mix Design Volumetrics and Cracking Potential of Foamed Warm Mix Asphalt (WMA) Containing Reclaimed Asphalt Pavement (RAP)" (Rahman, M. A., Zaman, M., Ali, S. A., Ghabchi, R., Ali, S. A., Ghos, S.). International Journal of Pavement Engineering, 1-13. <https://doi.org/10.1080/10298436.2021.1902522>, 2021.
202. "Interpretation of Displacement Fields Around Hydraulic Fracture Tip using Digital Image Correlation Method" (Dong, J.-N., Chen, M., Zaman, M.). International Journal of Oil, Gas and Coal Technology, 27(4), 2021.
201. "Evaluation of Stripping Resistance of Organoclay-modified Asphalt Binder and Aggregate Systems Using an Optical Contact Angle Analyzer" (Hossain, Z., Bairagi, B., Zaman, M., Bulut, R.). Sustainable Civil Infrastructure, DOI: 10.1007/978-3-030-79647-1_5, 2021.
200. "Rheology of Virgin Asphalt Binder Combined with High Percentages of RAP Binder Rejuvenated with Waste Vegetable Oil" (Dugan, C. R., Sumter, C. R., Rani, S., Ali, S. A., O'Rear, E. A., Zaman, M.). ACS Omega, 5(6), 15791-15798. DOI: 10.1021/acsomega.0c00377, 2020.
199. "Aggregate Characteristics-Based Preventive Maintenance Treatments for Optimized Skid Resistance of Pavements" (Li, Q. J., Pittenger, D., Wang, K. P., Yang, G., Zaman, M., Zhan, Y. J.). Journal of the Transportation Research Board (TRR), 2674(12), 372-384. <https://doi.org/10.1177/0361198120953153>, 2020.
198. "Experimental Study of Multi-timescale Crack Blunting in Hydraulic Fracture" (Dong, J.-N., Yuan, G.-J., Wang, X.-Y., Chen, M., Jin, Y., Zeng, C., Zaman, M.). Petroleum Science Online. <https://doi.org/10.1007/s12182-020-00479-1>, 2020.
197. "Relationships Between Compressive and Flexural Strengths of Concrete Based on Fresh Field Properties" (Campos, R., Mendez Larain, M. M., Zaman, M., Pozades, V.). International Journal of Pavement Research and Technology, 7 pages. doi.org/ 10.1007/s42947-020-1074-0, 2020.
196. "Effects of Load Duration and Stress Level on Deformation and Particle Breakage of Carbonate Sands" (Xiao, Y., Desai, C. S., Zhengxin, Y., Zaman, M., Ma, Q., Chen, Q., Liu, H.). International Journal of Geomechanics, ASCE, Special Collection on Testing and Modeling on Particle Breakage for Granular Soils. doi.org/10.1061/(ASCE)GM.1943-5622.0001731, 2020.
195. "Characterization of Effect of Polymer Modification, Poly-Phosphoric Acid and Aging on Asphalt Binder Using X-ray Diffraction (XRD)" (Ali, S. A., Ghabchi, R., Rani, S., Zaman, M.). Journal of Testing and Evaluation, ASTM, 2019.

194. "Laboratory Characterization of Asphalt Binders Containing a Chemical-Based Warm Mix Asphalt Additive" (Zaman, M., Rani, S., Ghabchi, R., Ali, S. A.). Journal of Testing and Evaluation. <https://doi.org/10.1520/JTE20180409> . ISSN 0090-3973, 2019.
193. "Panel Models for Pavement Friction of Major Preventive Maintenance Treatments" (Zhan, Y., Li, Q. J., Yang, G., Pittenger, D., Wang, K. P., Zaman, M.). International Journal of Geomechanics, ASCE, 19(8). doi.org/10.1061/(ASCE)GM.1943-5622.0001445, 2019.
192. "Study on Micro-Scale Properties of Cohesive Zone in Shale" (Dong, J., Chen, M., Jin, Y., Hong, G., Zaman, M., Li, Y.). International Journal of Solids and Structures, 163(15), 178-193, 2019.
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184. "Propagation and Aperture of Staged Hydraulic Fractures in Unconventional Resources in Toughness-Dominated Regimes" (Taghichian, A., Hashemalhosseini, H., Zaman, M. and Zavareh, S.B.). Journal of Rock Mechanics and Geotech. Engineering, Vol 10, No. 2, 2018, pp. 249-258.
183. "Influence of Tensile Strain at Failure on Flexural Properties of a Cementitiously Stabilized Subgrade Soil" (Nazari, M., Ghabchi, R., Zaman, M.). International Journal of Geomechanics, ASCE, 17(2). (ASCE)GM.1943-5622.0000731, 2017.
182. "Performance Evaluation of Plant-Produced Warm Mix Asphalts Containing RAP and RAS" (Arshadi, A., Steger, R., Ghabchi, R. A., Zaman, M., Hobson, K., Commuri, S.). Road Materials and Pavement Design, 18, 2017, pp. 1-18.
181. "Modelling the Dynamics of Asphalt-Roller Interaction during Compaction" (Imran, A., Commuri, S., Barman, M., Zaman, M., Beainy, F.). Journal of Construction Engineering and Management, ASCE. DOI: 10.1061/(ASCE)CO.1943-7862.0001293, 2017.
180. "Design of Semi-Rigid Type of Flexible Pavements" (Solanki, P., Zaman, M.). International Journal of Pavement Research and Technology, 10(2), 2017, pp. 99-111.
179. "Sensitivity of Traffic Input Parameters on Rutting Performance of a Flexible Pavement Using Mechanistic Empirical Pavement Design Guide" (Hossain, N., Singh, D., Zaman, M.). International Journal of Pavement Research and Technology (IJPRT), 9(6), 2016, pp. 450-459.
178. "Quality Improvement of Subgrade Using Intelligent Compaction" (Barman, M., Nazari, M., Imran, S. A., Commuri, S., Zaman, M.). Transportation Research Record: Journal of the Transportation Research Board, the National Academies, TRR No. 2579, 2016, pp. 59-69.

177. "Micro-Structural Analysis of Moisture-Induced Damage Potential of Asphalt Mixes Containing RAP" (Ghabchi, R., Singh, D.V., Zaman, M., Hossain, Z.). ASTM Journal of Testing and Evaluation, 44(1), 2016, pp. 194-205.
176. "Enhancing Prediction of Rut by MEPDG Using Data from Field Test Section in Oklahoma" (Hossain, N., Singh, D.V., Zaman, M.). Transportation Research Record: Journal of the Transportation Research Board, National Academies, TRR No. 2590, 2016, pp. 28-36.
175. "Continuous Monitoring of Subgrade Stiffness during Compaction" (Imran, S., Barman, M., Nazari, M., Commuri, S., Zaman, M.). Transportation Research Procedia, 17, 2016, pp. 617-625.
174. "Quality Control of Subgrade Soil Using Intelligent Compaction" (Barman, M., Nazari, M., Imran, S., Commuri, S., Zaman, M., Beainy, F., Singh, D.V.). Innovative Infrastructure Solutions, Springer Verlag, Berlin, 2016, pp. 1-23.
173. "Comparison of Laboratory Performance of Asphalt Mixes Containing Different Proportions of RAS and RAP" (Ghabchi, R., Barman, M., Singh, D.V., Zaman, M., Mubarak, M. A.). Journal of Construction and Building Materials, Vol. 124, 2016, pp. 343-351.
172. "Evaluation of Moisture Susceptibility of Nanoclay-Modified Asphalt Binders through the Surface Science Approach" (Hossain, Z., Zaman, M., Hawa, T., Saha, M.). Journal of Materials in Civil Engineering, Volume 27, Issue 10, 2015, pp. 10-18.
171. "Regression Modeling of Resilient Modulus of Unbound Aggregates" (Hossain, Z., Zaman, M. and Doiron, C.). Journal of Marine Science and Technology, Vol. 23, No. 3, 2015, pp. 388-398.
170. "Laboratory Characterization of Asphalt Mixes Containing RAP and RAS" (Ghabchi, R., Singh, D., Zaman, M., and Hossain, Z.). International Journal of Pavement Engineering, DOI: 10.1080/10298436.2015.1022778 (Available Online), 2015, pp. 1-18.
169. "Laboratory evaluation of stiffness, low-temperature cracking, rutting, moisture damage, and fatigue performance of WMA mixes" (Ghabchi, R., Singh, D.V., and Zaman, M.). Journal of Road Materials and Pavement Design, Vol. 16, No. 2, 2015, pp. 334-357.
168. "Moisture Susceptibility Evaluation of Nano-sized Hydrated Lime-Modified Asphalt-Aggregate Systems Based on Surface Free Energy Concept" (Diab, A., You, Z., Hossain, Z., and Zaman, M.). Journal Transportation Research Board, No. 2446, 2015, pp. 52-59.
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166. "Effect of Recycled Asphalt Pavement on Thermal Cracking Resistance of Hot-Mix Asphalt" (Solanki, P., Zaman, M., Adje, D., and Hossain, Z.). Int'l J. of Geomech., ASCE, 15(5), A4014001, 2015 (9 pages).
165. "Application of Intelligent Compaction Technology for Estimation of Effective Modulus for a Multilayered Asphalt Pavement" (Singh, D.V., Beainy, F., Commuri, S., and Zaman, M.). ASTM Journal of Testing and Evaluation, Vol. 43, Issue 2, 2015, pp. 1-11.
164. "Mechanical Behavior of Granular Materials under Continuously Varying b Values Using DEM" (Phusing, D., Suzuki, K., and Zaman, M.). International J. of Geomechanics, ASCE, 10.1061/(ASCE)GM.1943-5622.0000506, 04015027, 2015.
163. "Implementation of the Multiple Stress Creep Recovery (MSCR) Test Method to Characterize Polymer-Modified Asphalt Binders for Oklahoma Conditions" (Hossain, Z., Ghosh, D., and Zaman, M.). ASTM J. of Testing and Evaluation (JTE), 44.1S, 2015, pp. 1-14.
162. "Development of Rut Prediction Models from an Instrumented In-Service Test Section on Interstate-35" (Hossain, N., Singh, D. and Zaman, M.). Int. J. of Pavement Research and Tech., Vol. 8, No. 5, 2014, pp. 305-314.
161. "Regression Modeling of Resilient Modulus of Unbound Aggregates" (Hossain, Z., Zaman, M., and Doiron, C.). International Journal of Marine Science and Technology (JMST), Vol. 19, No. 2, 2014, (29 pages).

160. "Effect of Recycled Asphalt Pavement on Thermal Cracking Resistance of Hot-Mix Asphalt" (Solanki, P., Zaman, M., Adje, D. and Hossain, Z.). International J. of Geomechanics, ASCE, 10.1061/(ASCE)GM.1943-5622.0000398 , A4014001, 2014.
159. "Behavior of Stabilized Subgrade Soils Under Indirect Tension and Flexure," Materials in Civil Engineering, ASCE, 26(5), 2014, pp. 833-844.
158. "Stress Shadow Size and Aperture of Hydraulic Fractures in Unconventional Shales" (Taghichian, A., Zaman, M. and Davegowda, D.). Journal of Petroleum Science and Engineering, 124, 2014, pp. 209-221.
157. "Achievable Quality During the Compaction of Asphalt Pavement" (Beainy, F., Singh, D.V., Commuri, S., Zaman, M.). International Journal of Pavement Research and Technology (IJPRT), Vol. 7, Issue 5, 2014, pp. 317-323.
156. "A Visco-elastic-plastic Model of Asphalt/Roller Interaction During Field Compaction" (Beainy, F., Commuri, S., and Zaman, M.). Engineering Mechanics, ASCE, Vol. 140, Issue 7, pp. 1-12, [http://dx.doi.org/10.1061/\(ASCE\)EM.1943-7889.0000730](http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000730), 2014.
155. "Effect of Shape Parameters and Gradation on Laboratory Measured Permeability of Aggregate Bases" (Ghabchi, R., Zaman, M., Kazmee H., and Singh, D.). International Journal of Geomechanics, 10.1061/(ASCE)GM.1943-5622.0000397, 2014.
154. "Evaluation of Moisture Susceptibility of Asphalt Mixes Containing RAP and Different Types of Aggregates and Asphalt Binders Using the Surface Free Energy Method" (Ghabchi, R., Singh, D., and Zaman, M.). Construction and Building Materials, Vol. 73, 2014, pp. 479-489.
153. "Artificial Neural Network Modeling for Dynamic Modulus of Hot Mix Asphalt Using Aggregate Shape Properties" (Singh, D.V., Zaman, M. and Commuri, S.). Materials in Civil Engineering, Vol. 25, No. 1, 2013, pp. 54-62.
152. "Field Construction and Mechanistic Performance of Hot Mix Asphalt Containing Reclaimed Asphalt Pavement" (Solanki, P., Zaman, M., Adje, D., and Hossain, Z.). Journal of Pavement Research and Tech., Vol. 6, No. 4, 2013, pp. 403-413.
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149. "Influence of In-Isolation Properties of Geogrid on Their Pullout Properties in a Dense Graded Aggregate" (Hatami, K., Mahmood, T., Ghabchi, R., and Zaman, M.). Indian Geotech. Journal, Vol. 43, No. 4, 2013, pp. 303-320.
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147. "Evaluation for Warm-Mix Additive-Modified Asphalt Binders Using Spectroscopy Techniques" (Hossain, Z., Lewis, S., Zaman, M., Buddhala, A., and O'Rear, E.). Journal of Materials in Civil Engineering, ASCE, Vol. 25, No. 2, 2013, pp. 149–159.
146. "Effects of Production and Sample Preparation Methods on Aggregate Shape Parameters" (Singh, D.V., Zaman, M. and Commuri, S.). Journal of Pavement Engineering, Vol 14, No. 2, 2013, pp. 154-175.
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142. "Comparison of Shape Parameters for Selected Coarse Aggregates in Oklahoma" (Singh, D.V., Zaman, M., and Commuri, S.). ASTM Journal of Testing and Evaluation, Vol. 40, Issue: 3, 2012, pp. 409-426.
141. "A Laboratory Investigation into the Effect of Long-Term Oven Aging on RAP Mixes Using Dynamic Modulus Test" (Singh, D.V., Zaman, M., and Commuri, S.). International Journal of Pavement Research and Technology (IJPRT), Vol.5, Issue: 3, 2012, pp. 142-152.
140. "Evaluation of Dynamic Modulus of Modified and Unmodified Asphalt Mixes for Different Input Levels of the MEPDG" (Singh, D.V., Zaman, M., and Commuri, S.). International Journal of Pavement Research and Technology (IJPRT), Vol.5, Issue: 1, 2012, pp. 1-11.
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138. "Effect of Gradation and Source Properties on Stability and Drainability of Aggregate Bases: A Laboratory and Field Study" (Ghabchi, R., Zaman, M., Khoury, N., Kazmee, H., and Solanki, P.). International Journal of Pavement Engineering, 13(6), 2012, pp. 1-17.
137. "New Considerations for Empirical Estimation of Tensile Strength of Rocks" (Gurocak, Z., Solanki, P., Alemdag, S. and Zaman, M. M.). Engineering Geology, 145-146, 2012, pp. 1-8.
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135. "Evaluation of Durability of Stabilized Clay Specimens Using Different Laboratory Procedures" (Khalife, R., Solanki, P., and Zaman, M.). ASTM Journal of Testing and Evaluation, 40(3), 2012, pp. 363-375.
134. "Neural Network Modeling of 85th Percentile Speed for Two-Lane Rural Highways" (Singh, D.V., Zaman, M., and White, L.). Transportation Research Record, Journal of the Transportation Research Board TRR No. 2301, 2012, pp.17-27.
133. "Rheological Evaluation of Warm Mix and Anti-stripping Additives Modified Performance Grade Binders" (Hossain, Z., Zaman, M., Wasiuddin, N.M., Sneed, J. and O'Rear, E.). Road Materials and Pavement Design, Vol 12, No. 4, 2011, pp. 875-895.
132. "Effectiveness of Water-Bearing and Anti-stripping Additives in Warm Mix Asphalt Technology" (Hossain, Z., Zaman, M., O'Rear, E.A. and Chen, D.H.). International J. of Pavement Engineering, DOI: 10.1080/10298436.2011.616588, Sept. 2011, 9 pages.
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130. "Effect of Cement Kiln Dust and Rock Dust as Mineral Fillers on Bulk Specific Gravity of Fine Aggregates" (Gupta, A., Zaman, M., Laguros, J.G. and Ghabchi, R.). ASTM Journal of Testing and Evaluation, DOI: 10.1520/JTE103255, April 2011, 9 pages, 2011.
129. "Evaluation of Predictive Models for Estimating Dynamic Modulus of Hot Mix Asphalt Mixes Used in Oklahoma" (Singh, D.V., Zaman, M. and Commuri, S.). 90th Annual TRB Meeting and Online Compendium paper (11-3885), held in Washington, DC. on Jan. 23-27, 2011. Also, published in

- the Journal of Transportation Research Board, National Academy of Science, No. 2210, Vol. 4, 2011, pp. 57-72.
128. Validation of Back-Calculated Modulus Values from Falling Weight Deflectometer Through Instrumentation on I-35" (Solanki, P., Zaman, M. and Muraleetharan, K.). 90th Annual TRB Meeting and Online Compendium paper (11-3115), held in Washington, DC. on Jan. 23-27, 2011. Also, published in the Journal of Transportation Research Board, National Academy of Science, No. 2227, DOI: 10-3141/2227-09, 2011, pp. 79-86.
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190. Zaman, M., Ali, S., Hobson, K., Presented at Seminar Series on Rock Mechanics, Tsinghua University, "Assessment of Transportation Infrastructure Health Using Forensic Investigations," China. (June 15, 2022). Oral Presentation, Seminar.
189. Zaman, M., Hobson, K., Ali, S. A., Ghos, S., 6th International Conference on Civil Engineering for Sustainable Development - ICCESD - 2022, "Enhancing Sustainability of Transportation Infrastructure Using Forensic Investigations," Khulna University of Engineering and Technology, Bangladesh. (February 11, 2022). Lecture, Conference.
188. Larrain-Mendez, M., Ali, S. A., Hobson, K., Zaman, M., Annual Meeting, Transportation Research Board, Jan. 9-13, 2022, "Comparison of Predicted Remaining Service Life from Fast Falling Weight Deflectometer and Traffic Speed Deflection Device Data," TRB, National Academies, Washington, D.C. (January 2022). Poster, Conference.
187. Larrain-Mendez, M., Hanlon, B., Zaman, M., Razzaghi, T., Transportation Research Board Annual Meeting, Jan. 9-13, 2022, "Prediction of Unconfined Compressive Strength in Oklahoma Clays using Linear Regressions and Random Forest Models," Transportation Research Board, Washington, D.C. (January 2022). Oral Presentation, Hybrid (Podium/Poster
186. Mendez Larrain, M. M., Ali, S. A., Hobson, K. R., Zaman, M. (2022). "Enhancement of Data Analysis Procedure of Traffic Speed Deflection Device for Pavement Structural Evaluation." Presented at 2022 Oklahoma Transportation Research Day (OTRD), held on October 18, 2022, Oklahoma City, Oklahoma.
185. Ghos, S., Ali, S. A., Hobson, K. R. and Zaman, M. (2022). "Evaluating the Impact of Various Asphalt Rejuvenating Agents on the Performance of Asphalt Binders." Presented at 2022 Oklahoma Transportation Research Day (OTRD), held on October 18, 2022, Oklahoma City, Oklahoma.
184. Arevalo, P. F. C., Ali, S. A., Zaman, M., and Hobson, K. R. (2022). "Laboratory Evaluation of Strength, Permeability and Durability of Recycled Concrete Aggregate (RCA) for Pavement Base Construction." Presented at 2022 Oklahoma Transportation Research Day (OTRD), held on October 18, 2022, Oklahoma City, Oklahoma. (Poster competition winner)
183. Barrios, L. U., Khalife, R., Mendez Larrain, M. M., Zaman, M., and Razzaghi, T. (2022). "Mitigation of Swelling Soil-Induced Problems in Oklahoma Using Chemical Injections." Presented at 2022 Oklahoma Transportation Research Day (OTRD), held on October 18, 2022, Oklahoma City, Oklahoma.
182. Arevalo, P. F. C., Ali, S. A., Zaman, M., and Hobson, K. R. (2022). "Laboratory Evaluation of Performance and Durability of Recycled Concrete Aggregate (RCA) for Pavement Base Construction." Presented at 2022 Oklahoma Transportation Summer Symposium, held on August 4, 2022, Oklahoma City, Oklahoma.
181. Ghos, S., Sumter, C. R., Ali, S. A., Arevalo, P.C., Hobson, K. R., and Zaman, M. (2022). "Evaluation of Fatigue Cracking Performance of Asphalt Mixes Containing Recycled Low-Density Polyethylene (LDPE) and Linear-Low-Density Polyethylene (LLDPE)." Presented at 2022 Oklahoma Transportation Summer Symposium, held on August 4, 2022, Oklahoma City, Oklahoma

180. Zaman, M., ASCE Geo-Institute, "Premature Failure of Pavements in Oklahoma: Forensic Investigation and Geotechnical Issues," ASCE Oklahoma Chapter, Zoom. (March 12, 2021). Oral Presentation.
179. Ghos, S., Sumter, C., Ali, S. A., Zaman, M., O'Rear, E. A., Hobson, K., International Airfield and Highway Pavement Conference, "Issues with the Design of Asphalt Mixes Containing Post-Consumer Recycled Plastic," Zoom. (June 2021). Oral Presentation.
178. Ghos, S., Sumter, C., Ali, S. A., Cancino, P., Hobson, K., Zaman, M., 2021 Oklahoma Transportation Symposium, "Assessment of asphalt Mixes Containing Recycled Plastics for Pavement Construction Using a Balanced Mix Design Approach," OKC, (July 27, 2021). Podium.
177. Zaman, M., Rahman, M., Ghos, S., Ali, S. A., SPARC Hub International Workshop on Intelligent Compaction (IC), "Intelligent Asphalt Compaction Analyzer (IACA) for Quality Control of Asphalt Pavement," Monash University, Australia. (Sept. 28, 2021). Keynote Lecture.
176. Zaman, M., Hobson, K., Ali, S. A., 2021 GeoChina International Conference (online), Nanchang, China, Sept. 18-19, "Enhancing Sustainability of Transportation Infrastructure Using Forensic Investigations." (September 2021). Keynote/Plenary Address.
175. Ghos, S., Sumter, C., Cancino, P., Ali, S. A., Hobson, K., Zaman, M., Kalicki, G., Metzger, D., "Performance of Asphalt Mixes Containing Recycled Plastics Incorporated Using the Dry Process and Balanced Mix Design" OTRD, OKC, Oklahoma. (October 19, 2021).
174. Cancino, P., Ali, S. A., Zaman, M., Garland, S., Romero, M., 2021 Oklahoma Transportation Research Day, "Durability and Service Life of Recycled Concrete Aggregate (RCA) for Use in Pavement Base Construction," ODOT-SPTC, OKC, Oklahoma. (October 19, 2021).
173. Li, J. (Author & Presenter), Pittenger, D. (Author), Wang, K. (Author), Wang, G. (Author), Zaman, M. (Author), Zhan, Y. (Author), Annual Meeting, Transportation Research Board, "Aggregate Characteristics-Based Preventive Maintenance Treatments for Optimized Skid Resistance of Pavements," National Academies, Washington, D.C. (January 2020). Oral Presentation, Conference.
172. Rahman, M. (Author & Presenter), Ghabchi, R. (Author), Zaman, M. (Author), Ali, S. (Author), Arshadi, A. (Author), 99th Transportation Research Board Annual Meeting, Jan. 12-16,, "Laboratory Characterization of Rutting and Moisture-Induced Damage Potential of Foamed Warm Mix Asphalt (WMA) Containing RAP," TRB, National Academies, Washington, D.C. (January 2020). Paper, Conference.
171. Rahman, M. (Author), Zaman, M. (Author & Presenter), Gerard, B. (Author), Shawn, J. (Author), Ali, S. (Author), Hobson, K. (Author), 16th International Conference of IACMAG, "Application of Intelligent Compaction (IC) as a Quality Control Tool: Oklahoma Experience," IACMAG, Turino, Italy, July 1-4, (July 2020). Paper.
170. Zaman, M. (Author & Presenter), Ali, S. (Author), Ghabchi, R. (Author), Tech Transfer Workshop, Jan. 8, 2019, "Surface Free Energy Technique to Evaluate Moisture-Induced Damage," SPTC and ODOT, Oklahoma City, Oklahoma. (January 8, 2019). Workshop, Workshop.
169. Floyd, R. (Author & Presenter), Volz, J. (Author), Zaman, M. (Author), TRB ABC Subcommittee Meeting, Jan. 14, 2019, "Development of Non-Proprietary UHPC," TRB, National Academies, Washington, D.C. (January 14, 2019). Oral Presentation, Subcommittee Meeting.
168. Ali, S. (Author & Presenter), Ghabchi, R. (Author), Zaman, M. (Author), Rani, S. (Author), Rahman, M. (Author), 98th Annual Meeting of Transportation Research Board, Jan. 13-17, 2019, "Laboratory Characterization of Moisture-Induced Damage Potential of Asphalt Mixes Using Conventional and Unconventional Performance-Based Tests," Transportation Research Board, Washington, D.C. (January 2019). Poster, Conference.
167. Zaman, M. (Author & Presenter), Hobson, K. (Author), Ali, S. (Author), Tech Transfer Workshop, Feb. 24, 2019, "Effect of RAP and RAS on Asphalt Binder Grade," SPTC and ODOT, Oklahoma City, Oklahoma. (February 24, 2019). Workshop, Workshop.

166. Zaman, M. (Author & Presenter), Ali, S. (Author), Ghabchi, R. (Author), Singh, D. (Author), Barman, M. (Author), International IACMAG Symposium, "Fatigue and Low-Temperature Cracking Performance of Asphalt Mixes Containing RAP and RAS," IACMAG, IIT-Gandhinagar, Gujrat, India. (March 2019). Keynote/Plenary Address, Conference.
165. Zaman, M. (Author & Presenter), Rani, S. (Author), Ghabchi, R. (Author), Ali, S. (Author), International IACMAG Symposium, "Rutting Performance of PPA-Modified Asphalt Binders," International Association for Computer Methods and Advances in Geomechanics, IIT-Gandhinagar, Gujrat, India. (May 2019). Paper, Conference.
164. Ghos, S. (Author & Presenter), Elaryan, A. (Author), Rahman, M. (Author), Zaman, M. (Author), Ali, S. (Author), CUTC Summer Meeting, June 24-26, 2019, "Pavement Quality Evaluation using OU Intelligent Compaction Analyzer (ICA): A Case Study," CUTC/SPTC, Norman, Oklahoma. (June 2019). Poster, Annual Meeting.
163. Rani, S. (Author & Presenter), Ghabchi, R. (Author), Zaman, M. (Author), Ali, S. (Author), International Airfield and Highway Pavements Conference, July 21-24, "Effect of Polyphosphoric Acid on Stress Sensitivity of Polymer-Modified and Unmodified Asphalt Binders," Transportation and Development Institute, ASCE, Chicago, Illinois. (July 2019). Poster, Conference.
162. Ghos, S. (Author & Presenter), Elaryan, A. (Author), Rahman, M. (Author), Zaman, M. (Author), Ali, S. (Author), SPTC Summer Symposium, August 8, 2019, "Quality Control in Asphalt Pavement Construction using Intelligent Compaction Analyzer (ICA)," SPTC, ODOT and ABC-UTC, Oklahoma City, Oklahoma. (August 8, 2019). Poster.
161. Ali, S. (Author & Presenter), Ghabchi, R. (Author), Zaman, M. (Author), Rahman, M. (Author), 2019 SPTC Summer Symposium, August 8, 2019, "Evaluation of Moisture-Induced Damage Potential of Asphalt Mixes Using Performance based Laboratory Tests," Southern Plain Transportation Center, Oklahoma City, Oklahoma. (August 8, 2019). Oral Presentation, Symposium.
160. Rahman, M. (Author & Presenter), Zaman, M. (Author), Ghabchi, R. (Author), Ali, S. (Author), Arshadi, A. (Author), Barman, M. (Author), SPTC Summer Symposium, August 8, 2019, "Evaluation of Cracking Resistance of Warm Mix Asphalt (WMA) Containing RAP," Southern Plain Transportation Center, Oklahoma City, Oklahoma. (August 8, 2019). Oral Presentation, Symposium.
159. Ali, S. (Author & Presenter), Zaman, M. (Author), Ghabchi, R. (Author), Ghos, S. (Author), Hobson, K. (Author), Oklahoma Transportation Research Day, November 5, 2019, "Effect of Additives and Aging on Moisture-induced Damage Potential of Asphalt Mixes," SPTC, ODOT and ABC-UTC, Oklahoma City, Oklahoma. (November 5, 2019). Poster, Annual Meeting.
158. Floyd, R. (Author), Volz, J. (Author), Walker, C. (Author & Presenter), Zaman, M. (Author), Roswurm, S. (Author), Dyachkova, Y. (Author), Oklahoma Transportation Research Day, Oklahoma City, OK, November 5, 2019., "Development of ABC-UTC Non-Proprietary UHPC Mix," ODOT and SPTC, Oklahoma City, Oklahoma. (November 5, 2019). Poster, Conference
157. Ghos, S. (Author & Presenter), Elaryan, A. (Author), Rahman, M. (Author), Zaman, M. (Author), Ali, S. (Author), Oklahoma Transportation Research Day, November 5, 2019, "Application of Intelligent Compaction Analyzer (ICA) in Monitoring Asphalt Pavement Construction Quality," SPTC, ODOT and ABC-UTC, Oklahoma City, Oklahoma. (November 5, 2019). Poster, Annual Meeting.
156. Zaman, M. (Author & Presenter), China University of Geosciences-Wuhan, December 18, 2019, "Mechanistic Characterization of Rock-Binder Interface for Evaluation of Moisture-Induced Damage," Wuhan, China. (December 18, 2019). Oral Presentation, Seminar.
155. Zaman, M. (Author & Presenter), Institute of Rock and Soil Mechanics, Chinese Academy of Sciences-Wuhan, December 18, 2019, "Fracture Toughness and Flow Behavior of Antler

- Sandstone for Geotechnical Applications,” Chinese Academy of Sciences-Wuhan, Wuhan, China. (December 18, 2019). Oral Presentation, Seminar.
154. Zaman, M. (Author & Presenter), Huanzhong University of Science and Technology-Wuhan, December 19, 2019, “Sustainable Transportation Infrastructure: Innovative Technology and Practices,” Huanzhong University of Science and Technology, Wuhan, China. (December 19, 2019). Oral Presentation, Seminar.
 153. Zaman, M. (Author & Presenter), Chinese Academy of Sciences-Wuhan, December 19, 2019, “Fatigue Performance of Asphalt Pavements Containing RAS and RAP,” Chinese Academy of Sciences-Wuhan, Wuhan, China. (December 19, 2019). Oral Presentation, Seminar.
 152. Floyd (Author & Presenter), Volz, J. (Author), Zaman, M. (Author), Walker, C. (Author), Roswurm, S. (Author), Dyachkova, Y. (Author), Looney, T. (Author), Accelerated Bridge Construction Conference, Miami, FL, December 12-13, 2019, “Development of ABC-UTC Non-Proprietary UHPC Mix,” Miami, Florida. (December 2019). Poster, Conference.
 151. “Mechanistic Evaluation of Moisture-induced Damage of Asphalt Mixes using SFE and XRF” (Ali, S. A., Zaman, M.). Presented at Graduate Student Research & Creativity Day, Norman, March 2, 2018.
 150. “Development of a Surface Free Energy (SFE) Database for Screening of Mixes for Moisture-induced Damage in Oklahoma” (Ali, S. A., Ghabchi, R., Zaman, M., Steger, R., Rani, S., Rahman, M. A.). Presented at the 2018 SPTC Summer Symposium, organized by Southern Plain Transportation Center, held at Metro Tech., OKC, Aug. 14, 2018.
 148. “Effects of Waste Vegetable Oil in High Concentration Recycled Asphalt Pavement Binder Mixes” (Dugan, C., O’Rear, E. A., Rani, S., Ali, S. A., Zaman, M.). Presented at 2018 Annual AIChE Meeting, 2018.
 147. “Improved Characterization of Polymer- and RAP-Modified Binders Commonly Used in Oklahoma” (Ali, S. A., Ghabchi, R., Rani, S., Zaman, M.). Oral presentation at 2017 SPTC Summer Symposium held in Oklahoma City, Oklahoma.
 146. (2017). “Rutting Resistance of Warm Mix Asphalt and Hot Mix Asphalt Containing RAP” (Rahman, A., Arshadi, A., Ghabchi, R., Ali, S. A., Barman, M., Zaman, M.). Poster presentation at 2017 Oklahoma Transportation Research Day, held in Oklahoma City, Oklahoma.
 145. (2017). “Rutting and Cracking Resistance of Foamed Warm Mix Asphalt Containing RAP” (Rahman, A., Arshadi, A., Ghabchi, R., Ali, S. A., Zaman, M.). Poster presentation at 2017 SPTC Summer Symposium held in Oklahoma City, Oklahoma.
 144. “Laboratory Evaluation of Interlayer Shear Strength of Commonly Used Tack Coats in Oklahoma” (Rani, S., Ali, S. A., Ghabchi, R., Zaman, M.). Poster presentation at 2017 SPTC Summer Symposium held in Oklahoma City, Oklahoma.
 143. “Evaluation of Interlayer Shear Strength of Different Tack Coats Used in Oklahoma” (Rani, S., Ali, S. A., Ghabchi, R., Zaman, M.). Poster presentation at 2017 Oklahoma Transportation Research Day, held in Oklahoma City, Oklahoma.
 142. “Effects of Waste Vegetable Oil in High Concentration Recycled Asphalt Binder” (Dugan, C., Rani, S., Ali, S. A., O’Rear, E. A., Zaman, M.). Poster presentation at 2017 Oklahoma Transportation Research Day, held in Oklahoma City, Oklahoma (First Prize).
 141. “Development of a Surface Free Energy (SFE) Database for Screening of Mixes for Moisture-induced Damage in Oklahoma” (Ali, S. A., Ghabchi, R., Rani, S., Rahman, M. A., Zaman, M.). Presented at 2017 Oklahoma Transportation Research Day, held in Oklahoma City, Oklahoma.
 140. “Field and Laboratory Investigation of Fatigue Performance of Oklahoma Warm Mix Asphalts” (Ali, S. A., Arshadi, A., Ghabchi, R., Zaman, M.). Presented at 2016 SPTC Summer Symposium, Aug. 10, 2016.

139. "The Response of Polyphosphoric Acid Modified Asphalt Binders to the Addition of an Anti-Stripping Agent" (Rani, S., Ali, S. A., Ghabchi, R., Zaman, M.). University of Oklahoma, Norman: Graduate Student Research & Creativity Day, 2016.
138. "Characterization of Rheological Properties of Polymer and RAP Modified Asphalt Binders Using Multiple Stress Creep and Recovery Method" (Ali, S. A., Rani, S., Ghabchi, R., Zaman, M.). Presented at University of Oklahoma, Norman: Graduate Student Research & Creativity Day - 2016.
137. "Response of Oklahoma Asphalt Binder Modified using Polyphosphoric Acid, Warm-Mix Asphalt Additive and Anti-Stripping Agent" (Zaman, M.). Presented at 2016 Oklahoma Transportation Research Day, October 18, 2016.
136. "Interlayer Shear Strength of Tack Coats in Asphalt Pavements" (Rani, S., Ali, S. A., Ghabchi, R., Zaman, M.). Presented at 2016 Oklahoma Transportation Research Day, October 18, 2016.
135. "Evaluation of High Temperature Characteristics of Polymer and RAP Modified Asphalt Binders Using Multiple Stress Creep and Recovery Method" (Ali, S. A., Rani, S., Ghabchi, R., Zaman, M.). Presented at 2016 Oklahoma Transportation Research Day, Oklahoma City, Oklahoma, October 18, 2016.
134. "Performance of Asphalt Binders Modified with Polysphosphoric Acid" (Rani, S., Ali, A.S., Ghabchi, R. and Zaman, M.). Poster presentation at 2015 Oklahoma Transportation Research Day, held in OKC, OK, October 2015.
133. "Fatigue Characteristics of Asphalt Mixes Containing RAP and RAS" (Zaman, M., Ghabchi, G. and Barman, M.). Presented at Shandong Highway Department, Jinan, China, April 28, 2015.
132. "Southern Plains Transportation Center: Overview and Opportunity for Collaboration" (Zaman, M.). Presented at Shandong University, Jinan, China, April 27, 2015.
131. "Intelligent Asphalt Compaction Analyzer for Quality Control of Asphalt Pavement during Compaction" (Imran, S., Commuri, S., Barman, M., Arshadi, A., and Zaman, M.). Poster presentation at 2015 Oklahoma Transportation Research Day, Oklahoma City, OK, October 20.
130. "Development of Guidelines Toward Adopting the Multiple Stress Creep Recovery (MSCR) Test Method for Extreme Weather Conditions Prevailing in the Southern Plains" (Ali, A., Rani, S., Ghabchi, R. and Zaman, M.). Poster presentation at 2015 Oklahoma Transportation Research Day, held in OKC, OK, October 20.
129. "Fatigue Performance of Asphalt Pavement Containing RAS and RAP" (Zaman, M., Ghabchi, R. and Barman, M.). Workshop presentation at Oklahoma Dept. of Transportation, March 12, 2015.
128. "Superpave® Performance Grading of Oklahoma Asphalt Binders" (Rani, S., Ali, S.A., Ghabchi, R., and Zaman, M.). Presented at Oklahoma Research Day, held on March 6, 2015.
127. "Southern Plains Transportation Center: An Overview and Collaboration Potential" (Zaman, M.). Presented at OSSM on Jan. 21, Oklahoma City, OK, 2015.
126. "Southern Plains Transportation Center: Overview and Collaboration Potential" (Zaman, M.). Presented at University of Tokyo, Tokyo, Japan, February 25, 2014.
125. "Southern Plains Transportation Center: Overview of a Regional University Transportation Center" (Zaman, M.). Presented at Kajima Technical Research Institute, Tokyo, Japan, February 27, 2014.
124. "Traffic and Transportation Safety Issues in Bangladesh" (Zaman, M.). Presented at Metropolitan Expressway Co. Ltd., Tokyo, Japan, February 27, 2014.
123. "Modeling Nanoclay Modified Asphalt Binder Through Molecular Dynamic Simulations" (Baker, D.S., Hawa, T., Hossain, M.Z., Saha, M.C. and Zaman, M.). Presented at AIAA/ASME Oklahoma Symposium, held in Oklahoma City, Oklahoma, March 29, 2014.
122. "Recommended Fatigue Test Method for ODOT: Discussion of Results" (Barman, M., Ghabchi, R., Singh, D., Zaman, M. and Commuri, S.). Presented to the Project Panel, held in Norman, Oklahoma, June 19, 2014.

121. "Intelligent Compaction – Oklahoma Style" (Dark, T., Beainy, F., Commuri, S. and Zaman, M.). Presented at OAPA Awards Banquette and Conference, Midwest City, OK, Feb. 5-6, 2013.
120. "Field Performance of Asphalt Pavements Containing Mine Tailings: A Case Study on Green Paving" (Zaman, M.). Invited Keynote Presentation at 8th International Conf. on Road and Airfield Pavement Tech., held at Taipei, Taiwan on July 14-18, 2013.
119. "Pavement Preservation Research in Oklahoma" (Pittenger, D., Zaman, M., Riemer, C., Gransberg, D. and Bulut, R.). Presented at ODOT-OTC Transportation Research Day, held in OKC on Sept. 12, 2013.
118. "Southern Plains Transportation Center: Vision, Mission, and Collaboration Potential" (Zaman, M.). Presented at UT-Arlington on November 8, 2013.
117. "Southern Plains Transportation Center: Overview of Plan and Progress" (Zaman, M.). Presented at RITA Kickoff Visit, held at OU on December 4, 2013.
116. "Use of High RAP Contents in Hot Mix Asphalt Pavements" (Zaman, M., Hossain, Z., Ghabchi, R., Singh, D.). OkTC-ODOT Workshop, Oklahoma City (September 2012).
115. "Mechanistic Approach for Evaluation of Moisture Damage Potential of Green Pavement Technologies" (Ghanbchi, R., Singh, D., Tian, Q., Zaman, M.). Poster Presentation at GeoCongress, ASCE, Oakland, CA (March 2012).
114. "Environmentally Friendly Asphalt Technologies for Pavement Applications: Advantages and Technical Challenges" (Ghabchi, R., Singh, D., Tian, Q., Zaman, M.). Graduate Program Information Symposium, CoE, Norman, OK. Poster, 2012.
113. "Field Performance of a Test Road Containing Mine Tailings" (Zaman, M.). Shell Energy Security and Climate Change Seminar Series, UTEP, El Paso, Texas (December 2012).
112. "Recycled Asphalt Pavement in New Asphalt Mixtures: State of the Practice" (Hossain, Z., Buddhala, A., O'Rear, E. A., Zaman, M., Laguros, J., Lewis, S.). 2nd International Symposium on Asphalt Pavement and Environment, Fortaleza, Brazil (October 2012).
111. "Key to Green Paving: Challenges and Opportunities" (Zaman, M.). Big Idea Seminar, AME, Norman, Oklahoma. (October 2012).
110. "Preparation and Evaluation of Nanoclay-Modified Asphalt Binders" (Hossain, Z., Zaman, M., Saha, M., Hawa, T.). Poster Presentation at ODOT-OkTC Research Day, Oklahoma City, OK. (October 2012).
109. "Design, Construction and Performance of a Pavement Test Section with High Reclaimed Materials" (Zaman, M., Solanki, P., Adje, D., Hossain, Z., Singh, D., Ghabchi, R., Lewis, S.). ODOT-OkTC Transportation Research Day, Oklahoma City. (October 2012).
108. "Effect of Recycled Asphalt Pavement on Mechanistic Properties of Hot Mix Asphalt" (Solanki, P., Hossain, Z., Adje, D., Ghabchi, R., Singh, D., Zaman, M.). Poster Presentation at ODOT-OkTC Transportation Research Day, Oklahoma City. (October 2012).
107. "Fatigue and Rut Behavior of an Instrumented Pavement Under Vehicular Traffic" (Singh, D., Hossain, N., Zaman, M., Muraleetharan, K., Breidy, M.). Poster Presentation at ODOT-OkTC Transportation Research Day, Oklahoma City. (October 2012).
106. "Warm Mix Asphalt and Intelligent Compaction" (Zaman, M.). Presented at Shandong University, China, Dec. 1, 2011.
105. "Durability of Stabilized Aggregates" (Zaman, M.). Presented at Shandong University, China, Dec. 2, 2011.
104. "Warm Mix Asphalt Moisture Susceptibility Evaluation Using Surface Free Energy Approach" (Zaman, M., Bulut, R., Cross, S.A., Ghabchi, R., Tian, Q., Singh, D. and Murat, K.). Poster presentation at ODOT-OkTC Transportation Research Day, Oct. 11, 2011 (**First Prize**).
103. "Involvement of University Transportation Centers in Pavement Preservation Research" (Zaman, M., Gransberg, D., Riemer, C. and Pittenger, D.). Southeast Pavement Preservation Partnership Annual Meeting, held in OKC, May 4, 2011

102. "Enhancing Flexible Pavement Design through Field Performance Monitoring and Testing" (Zaman, M.). Presented at Shandong University, China, Nov. 21, 2111.
101. "Characterization of Cementitiously Stabilized Subgrades for Mechanistic-Empirical Pavement Design" (Zaman, M.). Presented at Shandong University, China, Nov. 22, 2011.
100. "Using Mine Chat in Asphalt Paving: A Field Demonstration Study" (Zaman, M.). Presented at Shandong University, China, Nov. 23, 2011.
99. "Energy Efficient Paving: Prospects and Concerns" (Zaman, M.). Presented at Shandong University, China, Nov. 24, 2011.
98. "Effect of Gradation on Stiffness and Flow Behavior of Aggregate Bases: A Laboratory and Field Study" (Zaman, M.). Presented at Shandong University, China, Nov. 25, 2011.
97. "Dynamic Modulus of Asphalt Mixes for Asphalt Pavement Applications: A Laboratory Study and Modeling" (Zaman, M.). Presented at Shandong University, China, Nov. 28, 2011.
96. "Civil Engineering Education and Research in the United States" (Zaman, M.). Presented at Shandong University, China, Nov. 28, 2011.
95. "Laboratory Performance Evaluation of Hot Mix Asphalt Mixes with RAP" (Singh, D.V., Zaman, M., and Commuri, S.). International Symp. on Testing and Spec. of Recycled Materials for Sustainable Geotechnical Construction, held in Maryland on Feb. 2-4, 2011.
94. "Traffic and Transportation Issues in Bangladesh" (Zaman, M.). Presented at NABIC's Annual Convention, held in Richardson, Texas, May 21, 2011.
93. "Effectiveness of Advera on Warm Mix Asphalt" (Hossain, Z., Zaman, M., O'Rear, E. and Chen, D-H.). Presented at GeoHunan Int'l Conf. II, held in Hunan, China on June 6-8, 2011.
92. "Enhancing Structural Design of Pavement Through Field Performance Monitoring" (Zaman, M.). Presented at Oklahoma Structural Engineering Association Meeting, held in OKC, July 26, 2011.
91. "Field Performance of a Test Pavement Section on I-35" (Zaman, M., Muraleetharan, M., Breidy, M. and Solanki, P.). Presented at ODOT-OkTC Transportation Research Day, held in OKC, October 11, 2011.
90. "Tube Suction Test for Evaluating Durability of Cementitiously Stabilized Soils" (Zaman, M., Solanki, P., and Khalife, R.). OTC RITA Site Visit, Poster Presentation, March 30, 2010, NCED Conference Center, Norman, Oklahoma.
89. "Effect of Gradation on Stability and Drainability of Selected Aggregate Bases in Oklahoma: A Field Case Study" (Ghabchi R. and Zaman M.). ODOT-OTC Transportation Research Day. Poster presentation, held in OKC, Oct. 14, 2010.
88. "Local Calibration of the MEPDG for Asphalt Pavements with RAP" (Zaman, M., Hossain, Z., Solanki, P., Laguros, J., Lewis, S., Doiron, C., Adje, D., and Autrey, J.). ODOT-OTC Research Day, Poster Presentation, held in OKC on Oct. 14, 2010.
87. "Tube Suction Test for Evaluating Durability of Cementitiously Stabilized Soils" (Solanki, P., Zaman, M. M., and Khalife, R.). ODOT-OTC Research Day, Poster Presentation, held in OKC on Oct. 14, 2010 **(Received Second Prize)**.
86. "Measurement of Stiffness of Pavement Using Intelligent Asphalt Compaction Analyzer" (Singh, D.V., Commuri, S., and Zaman, M.). Student Research and Performance Day, The University of Oklahoma, Norman, 2010.
85. "Measurement of Stiffness of Pavement Using Intelligent Asphalt Compaction Analyzer" (Singh, D.V., Commuri, S., and Zaman, M.). Student Research and Performance Day, The University of Oklahoma, Norman, 2010.
84. "Improvement of Subgrade Soil Properties Using Chemical Stabilization: A Case Study" (Singh, D.V., Ghabchi, R., Laguros, J.G., and Zaman, M.M.). BGSA Research Symposium, The University of Oklahoma, Norman, 2010. **(Awarded 2nd Prize)**.

83. "Continuous Real-Time Measurement of Pavement Quality during Construction" (Singh, D.V., Commuri, S., and Zaman, M.). ODOT-OkTC Research Day, held in OKC on Oct. 14, 2010 (**Awarded 1st Prize**).
82. "Pavement Research in OTC" (Zaman, M.). Presentation at the RITA site visit, Postal Training Center, March 30, 2010.
81. "Data Collection and Performance Monitoring of an Instrumented Flexible Pavement Section on I-35" (Solanki, P., Zaman, M. and Muraleetharan, K.). Presented at the Pavement Performance Prediction Symp: Validation of Predictive Models Using Full Scale and Field Pavement Performance, in Laramie, Wyoming, July 15-17, 2010.
80. "Timberdell Aggregate Testing Update." Presentation at the 8th Annual Meeting of the Oklahoma Aggregate Association (OKAA), OKC, Feb. 18, 2009.
79. "Durability of Chemically Stabilized Soils." Presentation at the Rajshahi Univ. of Engineering and Technology, Bangladesh, October 16, 2008.
78. "Rheological Properties of WMA Additives and Anti-Stripping Agent Modified Performance Grade Binder." Presentation (with Z. Hossain, D. Singh, A. Budhala and E.A. O'Rear) at the 45th Petersen Asphalt Conference, held at Laramie, Wyoming, July 14-16, 2008.
77. "OU Works for Cooperative Efforts with Industry." Presentation at 7th Annual Meeting of Oklahoma Aggregate Association, OKC, Feb. 13, 2008.
76. "Soil Stabilization in Pavement Structures." Poster Presentation (with P. Solanki and N. Khoury) at the ODOT-OTC Research Day, Poster Presentation, October 17, 2007, OKC, Oklahoma.
75. "Soil Stabilization," Graduate Student Research and Creative Endeavor, Poster Session (with P. Solanki and N. Khoury), Univ. of Oklahoma, April 6, Norman, Oklahoma.
74. "Effect of Aging on Surface Free Energy Characteristics of Asphalt Binders." Presentation (with N. Wasiuddin) at Second Int'l Workshop on Moisture Damage in Asphalt Pavements, College Station, Texas, College Station, Texas. (September 2007).
73. "Effect of Polymeric Aggregate Treatment Using Styrene-Butadiene Rubber (SBR) for Moisture-Induced Damage Potential," Presentation (with N. Wasiuddin and E.A. O'Rear) at Annual Meeting of the Int'l Soc. for Asphalt Pvt. (ISAP), Technical Committee (on Constitutive Modeling of Asphaltic Materials), Washington, D.C., Jan. 2007.
72. "Effect of Mineral Filler on Bulk Specific Gravity of Fine Aggregates." Presented (with A. Gupta, S. Selvaratnam and J.G. Laguros) at Peterson Asphalt Research Conf., 16-18, July, 2007, Laramie, WY.
71. "Advances in Intelligent Compaction of Asphalt Concrete Pavement." Presented (with S. Commuri) at ODOT-OTC Research Day, Oklahoma City, Sept. 19, 2006.
70. "Overview of OU Asphalt Program." Presented (with S. Commuri) to OTC, February 1, 2006.
69. "Civil Engineering: An Exciting Career with an Incredible History." Presentation at ENGR 2113: Intro to Engineering Class, June 17, 2004.
68. Tarefder, R.A., White, L. and Zaman, M., "Neural Network Assessment of Asphalt Concrete Permeability Factors." Presentation at the 83rd Annual Meeting of the Transp. Research Board, January 11-15, 2004, Washington, D.C.
67. "Oklahoma Transportation Center: An Overview." Presentation at the CEES Visiting Council Meeting, Nov. 7, 2003.
66. "Cold Asphalt Pavement Recycling: Laboratory and Field Aspects." Presentation at the Asphalt Pavement Recycling Workshop, held on September 16, 2003 in Oklahoma City, OK.
65. "Resilient Characteristics of Fly Ash Stabilized Marginal Aggregate Base." Presentation at the ASCE Texas Section Fall Meeting, held on September 24-27, 2003 at Dallas, Texas.
64. "Limiting Source Dimensions of Three-Dimensional Point Source Model for Solute Transport." (with A.N.M. Ahsanuzzaman and R. Kolar). Presentation at the AGU Hydrology Days 2003 Conference, held on March 31-April 2, 2003 at Fort Collins, Colorado.

63. "Scanning Eletron Microscopy in Identifying the Microstructural Development of Stabilized Aggregate Bases." Presented (with N. Khoury and J.G. Laguros) at the Annual Oklahoma Academy of Science Fall Technical Mtg., held on Nov. 7, 2003 at Chickasha, OK.
62. "Effect of Freeze-Thaw Cycles on Class C Fly Ash Stabilized Aggregate Base." Presented (with N. Khoury) at 82nd Annual Meeting of the Transportation Research Board, held on January 12-16, 2003 in Washington, D.C. Also, appeared in CD publication of TRB.
61. "Asphalt Program: Accomplishment and Goal." Presented at the CEES Visiting Council Mtg., April 4, 2002.
60. "Testing and Constitutive Modeling of HPC" Invited Presentation at Kansas State University, Manhattan, April 1, 2002.
59. "Overview of OU Asphalt Program." Presented at the OAPA Board Meeting, December 18, 2002.
58. "Soft Sediments." Presented at RMI Bi-Annual Meeting, October 24-25, 2002.
57. "Poroplastic Multi-Laterals in ABAQUS Using Cam Clay Model" (with A. Singanayagam and Y. Abousleiman). Presented at RMI Bi-Annual Meeting, March 5, 2002.
56. "Asphalt Pavement Recycling: Laboratory Aspects." Presented at OCAST-Sponsored Technology Transfer Workshop, held at Univ. of Oklahoma, May 21, 2002.
55. "Evaluation of Rutting Potential of Selected Mixes Using APA." Presented at Oklahoma Department of Transportation, Nov. 30, 2000.
54. "Numerical Modeling Efforts at RMI." Presentation at RMI Consortium Bi-Annual Meeting, July 26-27, 2000.
53. "Asphalt Encapsulation of Contaminated Soils and Aggregates" (R.A. Rarefder, M.E. Ruckgaber, M. Zaman, and D. Patton). Presented at 7th IPEC Conf., held in Albuquerque, New Mexico, Nov. 7-10, 2000.
52. "Hydraulic Fracture in Complex Stress Fields and Weak Formations." Presentation at RMRC Bi-Annual Meeting, held in Norman, OK, Nov. 16-17, 1999.
51. "Resilient Modulus and Mechanistic Pavement Design: Are We There Yet." Panel Discussion in Session 333, 78th Annual Meeting, Transportation Research Board, Washington, D.C., Jan. 10-14, 1999.
50. "Durability Effects on Resilient Modulus of Stabilized Aggregate Bases." Presentation at Session 238, 78th Annual Meeting, Transportation Research Board, Washington, D.C., Jan. 10-14, 1999.
49. "Evaluation of Crack Formation and Spacing in Continuously Reinforced Concrete Pavement." Presented at the Structure/Geotech. Seminar, School of CEES, Univ. Of Oklahoma, Aug. 27, 1997.
48. "Physical and Numerical Modeling of CRC Pavement." Presentation at the ACI meeting in Oklahoma City, Aug. 12, 1997.
47. "Soft Sediment Mechanics: Sanding, Drill-Cutting Reinjection--Overview of Progress." Presentation (with RMI colleagues) at the Rock Mechanics Institute Bi-Annual Meeting, held in Norman, Oklahoma, December 3-5, 1996.
46. "Cyclic Testing for Improved Pavement Design." Presentation at the Freshman Seminar: Discovering Engineering--What Does It Mean? organized by Prof. John Cheung, School of Electrical Engineering, University of Oklahoma, October 9, 1996.
45. "Resilient Moduli of Aggregate Materials: Variability due to Gradation and Moisture Content." Presentation at the Structures-Geotech Seminar, School of CEES, October 9, 1996.
44. "Soft Sediment Mechanics: Sanding--Project Overview and Research Plan." Presentation (wtih RMI colleagues) at the Pre-Consortium Mtg. on Sanding, held in Norman, Oklahoma, September 17-18, 1996.

43. "Statistical and Deterministic Models for Identification of Problematic Bridges and Estimation of Approach Settlements." Invited Presentation at the Highway Engineering Exchange Program Area III conference, held at Radisson Inn, Oklahoma City, Oklahoma, May 13-16, 1996.
42. "Resilient Modulus of Aggregate Bases." Presented at 21st Southwest Geotechnical Engineering Conf., held in Tulsa, Oklahoma, April 22-25, 1996.
41. "Field Evaluation of Drainable Bases in Oklahoma" (with M. Rahman and T. Curtis). Research Presentation at the Oklahoma Dept. of Transp., Oklahoma City, Oklahoma, March 22, 1996.
40. "Soft Sediment Mechanics." Presentation at Bi-annual RMC/RMRC Meeting, held at Norman Campus, O.U., November 9, 1995.
39. "Study of Differential Settlement Problems at Bridge Ends." Seminar at Helwan Univ., Cairo, Egypt, September 30, 1995.
38. "Technology Transfer and Industrial Collaborations." Presentation at NSF/OCAST Site Visit, June 20, 1995.
37. "Mechanics of Pore Collapse in Reservoir Rocks and Unconsolidated/Poorly Consolidated Sediments." Presentation at NSF/OCAST Assessment/Review Site Visit, held in Norman Campus, O.U., June 20, 1995.
36. "Cooling Properties of Asphalt Pavement." Presentation at Research Review Day, ODOT, February 1995.
35. "Pore Collapse Mechanisms, Reservoir Compaction and Subsidence, Unconsolidated Sands and Soft Sediments." Presentation at RMC/RMRC Biannual/Fall Meeting, Nov. 16, 1994.
34. "Bridge Approach Settlement Workshop" (with J.G. Laguros, H. Chen and M. Rahman). Presentation at Workshop held at the Univ. of Oklahoma for ODOT, Nov. 9, 1994.
33. "Pore Collapse Mechanisms and Unconsolidated Sands—A Review of Progress During March—October 1993" (with H. Wang, P. Suri, A. Mohammed and T. Scott). Presentation at the RMC/RMRC Biannual/Fall Meeting, October 12, 1993.
32. "Overview of Rock Mechanics Research Center." Presented to CSIRO visitors, Australia, July 2, 1993.
31. "The Role of Small Companies in a Centers Operation/Research Program Development." Presentation at the Roundtable Discussion Sessions at the NSF State-IUCRC Meeting in Washington, DC, April 19, 1993.
30. "Pore Collapse Mechanisms and Unconsolidated Sands—A Review of Progress" (with A. Abdulraheem, M. Azeemuddin, S. Mowar and H. Wang). Presentation at the Rock Mechanics Consortium-Spring Meeting and Rock Mechanics Research Center Meeting, April 1, 1993.
29. "Bridge Approach Settlement Problems in Oklahoma." Presented at the ASCE Monthly Mtg. in Oklahoma City, Oklahoma, March 3, 1993.
28. "Bridge Approach Settlement." Presented at the Research Review Day, Okla. Dept. of Transp. in Oklahoma City, Oklahoma, February 3, 1993.
27. "Workshop on Bridge Approach Settlement" (with J.G. Laguros, D. Bhat, C. Hua, and K. Pandey). Oklahoma Dept. of Transportation, July 21, 1993.
26. "Overview of Rock Mechanics Research Center at University of Oklahoma". Presented to Petrobras Visitors, May 12, 1993.
25. "Thermal Effects on Dynamic Response of Concrete Pavements" (with V. Khanna and M.R. Taheri). Presented at the Transportation Research Board Meeting, January 10-14, 1993.
24. "Pore Collapse Research at the University of Oklahoma" (with A. Abdulraheem and S. Mowar). Presented to Statoil, Norway Visitors, June 22, 1992.
23. "Role of Rock Mechanics in Reserving Compaction". Reservoir Compaction Forum, held at Las Teques (INTEVEP) Venezuela, April 9-10, 1992.

22. "Dynamic Response of Jointed Concrete Pavements to Moving Aircraft" (with A. Alvappillai). Presented at the 80th Annual Meeting of Oklahoma Academy of Science, held at Southeastern Oklahoma State University, Durant, Nov. 7, 1991.
21. "3-D Testing and Constitutive Modeling of Coal" (with D.H. Chen and A.R. Kukreti). Presented at the 80th Annual Meeting of Oklahoma Academy of Science held at Southeastern Oklahoma State University, Durant, Nov. 7, 1991.
20. "Pore Collapse Mechanisms in Poorly Consolidated Reservoir Rocks" (with J.-C. Roegiers, A. Abdulazeez, M. Azeemuddin). Presented at the Rock Mechanics Consortium (RMC) meeting. March 12, 1991.
19. "Three-Dimensional Testing of Plain and Fiber Reinforced Concrete" (with A.R. Kukreti and D.K. Mishra). Presented at the 79th Annual (Technical) Meeting of the Oklahoma Academy of Sciences, held at Oral Roberts Univ., Tulsa, Oklahoma on Nov. 9, 1990.
18. "Application of Constitutive Modeling in Underground Mining" (with A.R. Kukreti and D. Chen). Presented at the 79th Annual (Technical) Meeting of the Oklahoma Academy of Sciences, held at Oral Roberts Univ., Tulsa, Oklahoma on Nov. 9, 1990.
17. "An Anisotropic Constitutive Model for Concrete and Rocks" (with A.R. Kukreti and Y.M. Najjar). Presented at the 79th Annual (Technical) Meeting of the Oklahoma Academy of Sciences, held at Oral Roberts Univ., Tulsa, Oklahoma on Nov. 9, 1990.
16. "Thick Plate Response to Moving Suspended Point Load" (with M.R. Taheri and A. Alvappillai). Presented at the 78th Annual Mtg. of Okla. Acad. Science, held at Central State Univ., Edmond, OK, Nov. 10, 1989.
15. "Finite Element Analysis of Consolidation Settlements of Bridge Approach Pavements in Oklahoma" (with A. Gopalasingam and J.G. Laguros). Presented at the 78th Annual Mtg. of the Okla. Acad. Science, held at Central State Univ., Edmond, OK, Nov. 10, 1989.
14. "A Single Surface Plasticity Model for Rocks and Concrete" (with Y.M. Najjar and M.O. Faruque). Presented at the 78th Annual Mtg. of the Okla. Acad. Sc., Central State Univ., Edmond, Nov. 10, 1989.
13. "Application of Elastoplastic and Viscoplastic Finite Element Analyses to Prediction of Bridge Approach Settlements" (with A. Gopalasingam and J.G. Laguros). Presented at the 77th Annual Meeting of the Okla. Academy of Science, held at the Univ. of Science and Arts, Chickasha, Oklahoma, Nov. 11, 1989.
12. "Prediction of Stress-Strain Response of Concrete Under Three-Dimensional Loading by a Two-Surface Constitutive Model" (with Y.M. Najjar and A.R. Kukreti). Presented at the 77th Annual Meeting of the Okla. Academy of Science, held at the Univ. of Science and Arts, Chickasha, Oklahoma, Nov. 11, 1989.
11. "Soil Liquefaction and Foundation Response Under Earthquake Loading." Presented at a seminar organized by the Dept. of Meteorology, Univ. of Oklahoma, Dec. 8, 1987.
10. "Analysis of Cylindrical Storage Tanks on Rectangular or Square Foundations Including Interaction Effects" (with N. Koragappa). Presented at the 76th Annual Meeting of the Oklahoma Academy of Science, held at Northwestern State Univ., Alva, Oklahoma, Nov. 13, 1987.
9. "A Generalized Plasticity Model and Its Application to Some Field Problems in Geomechanics." Presented at a seminar organized by the OU School of Aerospace, Mechanical and Nuclear Engineering, March 1987.
8. "Seismic Response of a Bridge Pier Including a Base Isolator and Energy Dissipator." Presented at the 75th Annual Fall Meeting of the Oklahoma Academy of Science, held at Northeastern Univ., Tahlequah, Oklahoma, Nov. 14, 1986.
7. "Three-Dimensional Nonlinear Behavior of Pile Group Foundation: Effect of Loading Sequence" (with Y.M. Najjar). Presented at the 75th Annual Fall Meeting of the Oklahoma Academy of Science, held at Northeastern State Univ., Tahlequah, Oklahoma, Nov. 14, 1986.

6. "Modeling of Immiscible Displacements in Heterogeneous Reservoirs" (with A.R. Kukreti and F. Civan). Presented at the 74th Annual Meeting of the Oklahoma Academy of Science, held at the Oklahoma Baptist Univ., Shawnee, Oklahoma, Nov. 11, 1985.
5. "A Finite Element Model for Analysis of Drilled Piers" (with A. Uppal). Presented at the 74th Annual Meeting of the Oklahoma Academy of Science, held at the Oklahoma Baptist Univ., Shawnee, Oklahoma, Nov. 11, 1985.
4. "Modeling of Flow of Immiscible Fluids in Heterogeneous, Irregular Shaped Reservoirs for Efficient Oil Recovery" (with A.R. Kukreti and F. Civan). Workshop organized by the Energy Resources Institute (ERI), April 11, 1985.
3. "Finite Element Simulation of Borehole Dilatometer Tests in Discontinuous Rocks" (with S.L. Kuang). Presented at the 72nd Annual Meeting of the Oklahoma Academy of Science, Oral Roberts University, Tulsa, Oklahoma, November 1983.
2. "Behavior of Subway Tunnels Under Static and Cyclic Loading." Presented at the Fifteenth Annual Meeting of the Mid-Continent Regional Science Association, held at Oklahoma City, June 1983.
1. "Cyclic Testing and Modelling of Interfaces" (with C.S. Desai, E.C. Drumm and R. Janardhanam). Presentation at session: 'Cyclic Loading of Soils, Concrete and Metals'. National Spring Convention, ASCE, Las Vegas, 1982.

AWARDS AND HONORS:

30. Japanese Society for the Promotion of Science Fellowship at Saitama University, Japan, February 16 – March 16, 2014.
29. "Outstanding Contributions" award given by the 8th International Conference on Road and Airfield Pavement Engineering, July 2013.
28. Invention disclosure: "A Method to Determine the Stiffness of a Hot Mix Asphalt (HMA) Pavement During its Construction" (Commuri, S. and Zaman, M.), February 22, 2011.
27. Outstanding Contribution Award, given by IACMAG, for life-long contributions in geomechanics, 2011.
26. IJOG Excellent Paper Award (2008) given by IACMAG for the paper "Modeling Fully Coupled Oil-Gas Flow in Dual-Porosity Medium" (R. Nair, Y. Abousleiman, M. Zaman), Int. J. of Geomech., ASCE, Vol. 5, 2005, pp. 326-338.
25. Chandra Desai Medal (2005) from the International Association for Computer Methods and Advances in Geomechanics (IACMAG).
24. David Ross Boyd Professorship (2003, life-time teaching award for outstanding contributions to teaching).
23. Ker McGee Presidential Professor (1997-2001).
22. Agilent Technologies Award for Excellence in Laboratory Instruction, ASEE (2000)
21. ASEE Midwest Section Teaching Excellence Award (1998)
20. College of Engineering Distinguished Lectureship Award (1997).
19. Citation of Meritorious Achievement by Inter. Biographical Center, Cambridge, England (1996).
18. Who's Who in the World (1995, 1996).
17. Who's Who in South and Southwest (1995).
16. C.S. Desai Biennial Prize, Indian Geotechnical Society (1994) for the best paper published in Indian Geotechnical Journal during 1991-1992.
15. IACMAG Award for significant contribution in Constitutive Laws and Application (1994).
14. Who's Who in Science and Engineering (1993, 1996/1997).
13. Regents' Award for Superior Research and Creative Activity, The University of Oklahoma (1992).
12. Regents' Award for Superior Teaching, The University of Oklahoma (1990).

11. CoE Distinguished Lectureship Award, College of Engineering (for a five-year period: 9/88 to 9/93).
10. National Science Foundation Travel Award to attend the International Symp. on Tunnelling for Water Resources and Power Projects, held in New Delhi, India, 19-23 Jan. 1988.
9. Summer Faculty Research Participation Fellowship, Argonne National Laboratory, Argonne, Illinois (1987).
8. Associates Distinguished Lectureship Award, College of Engineering, University of Oklahoma (1986, 1987).
7. Outstanding Young men of America - 1983, 1984, 1986 by U.S. Jaycees
6. Young Faculty Development Award, College of Engineering, University of Oklahoma, Norman (1985).
5. Junior Faculty Summer Fellowship, University of Oklahoma (1985).
4. Young Faculty Development Award, College of Engineering, University of Oklahoma, Norman (1984).
3. Annual Dissertation Award, College of Engineering, University of Arizona, Tucson (1983).
2. Merit Award (given to top student of the year), Bangladesh University of Engineering and Technology (BUET), Dhaka (1975).
1. Merit Scholarship, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh (1970-1975).

FUNDED RESEARCH PROJECTS:

197. Zaman, M., (PI, 90% credit), Michael, M., (Co-PI, 10% credit), "Management of the ODOT Transportation Library: FFY 2023," Sponsored by ODOT, State, \$177,901. (October 1, 2022 - September 30, 2023).
196. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), "Transportation Research and Connectivity," Sponsored by Oklahoma Department of Transportation, State, \$260,000. (September 30, 2020 - February 28, 2025).
195. Zaman, M., (PI, 100% credit), "OU Task Order Contract Administration -- FFY2023," Sponsored by Oklahoma Department of Transportation, State, \$39,999. (October 1, 2022 - September 30, 2023).
194. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), "Knowledge Management Awareness Campaign, SharePoint Site Creation, and Codifying Knowledge," Sponsored by Oklahoma Department of Transportation, State, \$75,000. (October 1, 2022 - September 30, 2023).
193. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), "Transportation Taxonomy, Additional Social Network Analyses, Growing the KM Liaison Network, and Workforce Development," Sponsored by ODOT, State, \$75,000. (October 1, 2022 - September 30, 2023).
192. Zaman, M., (PI, 80% credit), Molina, M., (Co-PI, 20% credit), "ODOT Peer Exchange," Sponsored by Oklahoma Department of Transportation, State, \$62,945. (October 1, 2022 - September 30, 2023).
191. Hobson, K., (PI, 0% credit), Ali, S. A., (Co-PI, 10% credit), Zaman, M., (Co-PI, 90% credit), "Modification of AASHTO T 283 for Improved Screening of Asphalt Mixes for Moisture-Induced Damage," Sponsored by ODOT, State, \$66,001. (October 1, 2022 - September 30, 2023).
190. Zaman, M., (PI, 80% credit), Molina, M., (Co-PI, 20% credit), "Management of the ODOT Transportation Library: FFY2023," Sponsored by Oklahoma Department of Transportation, State, \$177,901. (October 1, 2022 - September 30, 2023).
189165. Zaman, M., (PI, 70% credit), Mendez Larrain, M., (Co-PI, 5% credit), Razzaghi, T., (Co-PI, 15% credit), "(OCAST) Mitigation of Swelling Soil-Induced Problems in Oklahoma Using AI-

- Based Models and Chemical Injection,” Sponsored by Oklahoma Center for the Advancement of Science and Technology, State, \$48,582. (February 1, 2022 - September 30, 2023).
188. Zaman, M., (PI, 60% credit), Floyd, R., (Co-PI, 40% credit), “Workforce Development, Outreach and Tech Transfer Activities,” Sponsored by Florida International University, University, \$20,097. (June 1, 2022 - June 1, 2023).
 187. Salazar-Cerreño, J. L., (PI, 34% credit), Schwartzman Cohenca, D., (Co-PI, 33% credit), Zaman, M., (Co-PI, 33% credit), “A Radar-Based Warning System and Stakeholder-Focused Outreach for Enhancing Safe Driving on Icy Roads,” Sponsored by Oklahoma Department of Transportation, State, \$40,000. (January 1, 2022 - December 31, 2022).
 164. Zaman, M., (PI, 85% credit), Ali, S. A., (Co-PI, 7.5% credit), Mendez Larrain, M., (Co-PI, 7.5% credit), “Project-Level Evaluation of Pavement Conditions for Maintenance, Asset and Safety Management, and Pavement Design (OU),” Sponsored by Oklahoma Department of Transportation, State, \$28,350. (January 24, 2022 - September 30, 2022).
 163. Zaman, M., (PI, 100% credit), “OU Task Order Contract Administrative Support: FFY2022,” Department of Transportation, \$40,000. (October 7, 2021 - December 31, 2023).
 162. Zaman, M., (PI, 50% credit), Barnes, R., (Co-PI, 25% credit), Miller, G., (Co-PI, 25% credit), “Matching Support for The Southern Plains Transportation Center,” Oklahoma, Department of Transportation, State, \$3,392,485. (October 1, 2013 - September 30, 2023).
 161. Zaman, M., (PI, 80% credit), Michael, M., (Co-PI, 10% credit), Pittenger, D., (Co-PI, 10% credit), “Management of the ODOT Transportation Library: FFY 2022,” Sponsored by ODOT, State, \$172,945. (October 1, 2021 - September 30, 2022).
 160. Zaman, M., (Co-PI, 90% credit), Hobson, K., (PI, 0% credit), Ali, S. A., (Co-PI, 10% credit), “Effect of Gradation Changes due to Construction on Performance of Recycled Aggregate Bases in Oklahoma,” ODOT, \$75,000. (October 5, 2021 - September 30, 2022).
 159. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), “Knowledge Management Awareness, Information Storage/Retrieval, and Workshops/Short Courses,” Oklahoma Department of Transportation, \$75,000. (November 2, 2021 - September 30, 2022).
 158. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), “ODOT Social Network Analysis Toward Critical Process and Procedure Identification and Improvement,” Oklahoma Department of Transportation, \$75,000. (October 18, 2021 - September 30, 2022).
 157. Zaman, M., (PI, 90% credit), Matias, M. L., (Co-PI, 0% credit), Razzaghi, T., (Co-PI, 10% credit), “An Improved Approach to Estimate Bearing Capacity of Soil Using Laboratory and Field Data and Artificial Intelligence,” Sponsored by State of Oklahoma, Center for the Advancement of Science and Technology, State, \$54,410. (September 1, 2020 - July 31, 2022).
 156. Hobson, K., (PI, 0% credit), Zaman, M., (Co-PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), “Evaluating the Impact of Various Asphalt Rejuvenating Agents on the Performance of Asphalt Binders,” ODOT, \$60,000. (October 11, 2021 - June 30, 2022).
 155. Ali, S. A., (PI, 10% credit), Hobson, K., (Co-PI, 0% credit), Zaman, M., (Co-PI, 90% credit), “Development of a DIGGS-Compatible Geotechnical Database from Existing Geotechnical Reports - Phase I,” ODOT, \$46,350. (October 1, 2021 - March 31, 2022).
 154. Zaman, M., (PI, 100% credit), “OU Task Order Contract Administrative Support - FY2020,” Oklahoma Department of Transportation, \$39,999. (July 1, 2020 - March 31, 2022).
 153. Zaman, M., (PI, 80% credit), Cokely, E. T., (Co-PI, 20% credit), “Risk and Resilience of Bridges: Toward Development of Hazard-Based Assessment Framework, Research Needs, and Benefits of Accelerated Construction,” FIU, \$65,019. (Feb. 1, 2021 – Feb. 28, 2022).
 152. Zaman, M., (PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), “Development of an Interactive Database for Soil for Design of New Pavements and Rehabilitation of Existing Pavements in Oklahoma,” ODOT, \$75,000. (January 22, 2021 - December 31, 2021).

151. Zaman, M., (PI, 100% credit), "OU Task Order Contract Administrative Support - FY2021," Sponsored by State of Oklahoma, Department of Transportation, State, \$40,000. (October 1, 2020 - December 31, 2021).
150. Zaman, M., (PI, 90% credit), Syed Ashik, A., (Co-PI, 10% credit), "I-35/SH-7 Subsurface Investigation," Oklahoma Department of Transportation, State, \$75,000. (October 1, 2020 - November 30, 2021).
149. Hobson, K., (PI, 0% credit), Zaman, M., (Co-PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), "Evaluation of High-Performance Thin Overlays for Extended Pavement Life," Sponsored by ODOT, \$75,000. (April 5, 2021 - September 30, 2021).
148. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), "Workforce Development: Performance Metrics and Processes and Procedures Improvement," Sponsored by ODOT, \$75,000. (March 30, 2021 - September 30, 2021).
147. Molina, M., (PI, 50% credit), Zaman, M., (Co-PI, 50% credit), "Further Implementation of ODOT Knowledge Management Framework," Sponsored by State of Oklahoma, Department of Transportation, State, \$75,000. (October 1, 2020 - September 30, 2021).
146. Zaman, M., (PI, 90% credit), Syed Ashik, A., (Co-PI, 10% credit), "I-35/SH-7 Subsurface Investigation," Sponsored by State of Oklahoma, Department of Transportation, State, \$75,000. (October 1, 2020 - September 30, 2021).
145. Zaman, M., (PI, 50% credit), Barnes, R., (Co-PI, 25% credit), Miller, G., (Co-PI, 25% credit), "Matching Support for The Southern Plains Transportation Center," Sponsored by State of Oklahoma, Department of Transportation, State, \$3,392,485. (October 1, 2013 - September 30, 2021).
144. Zaman, M., (PI, 100% credit), "OU Task Order Contract Administrative Support - FY2020," Sponsored by State of Oklahoma, Department of Transportation, State, \$39,999. (July 1, 2020 - June 30, 2021).
143. Zaman, M., (PI, 100% credit), Syed Ashik, A., (Co-PI, 10% credit), "Repair Evaluations of Depressed Transverse Cracks in Asphalt Pavements in Division 6," Sponsored by State of Oklahoma, Department of Transportation, State, \$75,000. (March 1, 2020 - May 31, 2021).
142. Zaman, M., (PI, 90% credit), Syed Ashik, A., (Co-PI, 10% credit), "Workforce Development and Tech Transfer," Sponsored by Florida International University, University, \$25,398. (January 18, 2018 - March 31, 2021).
141. Zaman, M., (PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), "Implementation of Innovative Technologies for Improved Performance and Service Life of Asphalt Pavements," Sponsored by State of Oklahoma, Center for the Advancement of Science and Technology, State, \$59,770. (March 1, 2019 - January 13, 2021).
140. Molina, M., (PI, 100% credit), Zaman, M., (Co-PI, 50% credit), "Implementation of Knowledge Management Framework," Sponsored by State of Oklahoma, Department of Transportation, State, \$75,000. (October 28, 2019 - September 30, 2020).
139. Zaman, M., (PI, 90% credit), Kenneth, H., (Co-PI, 0% credit), Syed Ashik, A., (Co-PI, 10% credit), "Investigation of Pavement Distresses in Logan County on SH-74," Sponsored by State of Oklahoma, Department of Transportation, State, \$72,001. (October 1, 2019 - September 30, 2020).
138. Zaman, M., (PI, 90% credit), Kenneth, H., (Co-PI, 0% credit), Syed Ashik, A., (Co-PI, 10% credit), "Forensic Investigation of Pavement Distresses on US-412 in Noble County," Sponsored by State of Oklahoma, Department of Transportation, State, \$70,150. (October 1, 2019 - September 30, 2020).
137. Zaman, M., (PI, 90% credit), Syed Ashik, A., (Co-PI, 10% credit), "Durability of Recycled Aggregate for Use in Aggregate Base Construction," Sponsored by State of Oklahoma, Department of Transportation, State, \$75,000. (October 1, 2019 - September 30, 2020).

136. Zaman, M., (PI, 100% credit), "OU Task Order Contract Administrative Support," Sponsored by State of Oklahoma, Department of Transportation, State, \$40,000. (June 1, 2019 - September 30, 2020).
135. Zaman, M., (PI, 100% credit), "OCAST Internship (with ROCA Engineering, INC.) Improved Relationships between Properties of High Strength Concrete for Better Quality Control and Forensic Investigations," Sponsored by State of Oklahoma, Center for the Advancement of Science and Technology, State, \$72,964. (September 1, 2018 - August 31, 2020).
134. Zaman, M., (PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), "Extraction, Recovery and PG Grading of AC Binder from Provided HMA/WMA," Sponsored by State of Oklahoma, Department of Transportation, State, \$30,000. (September 1, 2019 - June 30, 2020).
133. "OU Task Order Contract Administrative Support" (PI). Funded by Oklahoma, Department of Transportation, \$40,000 (Oct. 2018-Sept. 2019).
132. Zaman, M., (PI, 32% credit), Muraleetharan, K., (Co-PI, 32% credit), Harvey, P. S., (Co-PI, 36% credit), "Accelerated Bridge Construction – University Transportation Center (ABC-UTC)," Florida International University, University, \$118,000. (10/1/16-9/30/19).
131. "Premature Pavement Distress or Subgrade Failures Due to Unknown Factors In the Early Stages of Design Life Expectations on SH3E/SH99" (PI). Funded by Oklahoma, Department of Transportation, \$64,998 (Sept. 2018-March 2019).
130. "Establishment of ODOT Knowledge Management Implementation Framework" (Co-PI with Molina). Funded by Oklahoma, Department of Transportation, \$70,000 (Oct. 2018-Sept. 2019).
129. "Forensic Investigation - Depressed Transverse Asphalt Pavement Cracking in Division 6," Funded by Oklahoma Department of Transportation, \$69,996 (Oct. 2018-Sept. 2019).
128. "Investigation of Asphalt Pavement Distress, SH-7, Garvin Co" (PI; Co-PI: Ali). Funded by Oklahoma, Department of Transportation, \$70,000 (Oct. 2018-Sept. 2019).
127. "Management of the Oklahoma Transportation Library: FFY2019" (PI; Co-PI: Pittenger). Funded by Oklahoma, Department of Transportation, \$169,761 (Oct. 2018-Sept. 2019).
126. Zaman, M., (PI, 90% credit), Ali, S. A., (Co-PI, 10% credit), "Investigation of Asphalt Pavement Distress, SH-7, Garvin Co," ODOT, \$70,000. (December 1, 2018 - September 30, 2019).
125. Zaman, M., (PI, 100% credit), "OCAST Internship (with ROCA Engineering, INC.) Improved Relationships between Properties of High Strength Concrete for Better Quality Control and Forensic Investigations," OCAST, \$72,964. (September 1, 2018 - August 31, 2020).
124. "Development of ABC-UTC Non-Proprietary UHPC Mix" (Co-PI with Floyd). Funded by Florida International University, \$99,999 (Feb. 2019 – Feb 2020).
123. Improved Relationships between Properties of High Strength Concrete for Better Quality Control and Forensic Investigations" (PI). Internship funded by OCAST, \$72,964 (Oct. 2018-Sept. 2020).
122. Zaman, M., (PI, 50% credit), Barnes, R., (Co-PI, 25% credit), Miller, G., (Co-PI, 25% credit), "Southern Plains Transportation Center (SPTC)," U.S. Department of Transportation, Research and Innovative Technology Admin, \$7,717,600. (10/1/13 – 9/30/19).
121. "Implementation of Innovative Technologies for Improved Performance and Service Life of Asphalt Pavements" (PI; Co-PI: Ali). Internship funded by OCAST, \$125,570 (March 2019 – Feb. 2021).
120. "Year 2 Support for the SPTC 15.2 Projects" (PI; Co-PIs: Miller, Barnes)). Funded by Oklahoma Department of Transportation, State, \$391,981. (April 2017 - September 2018).
119. "Intelligent Compaction Data Analyzing" (PI). Funded by Oklahoma, Department of Transportation, \$16,818 (July – Sept., 2018).
118. "Management of the ODOT Transportation Library - FY 18" (PI; Co-PI: Pittenger). Funded by Oklahoma Department of Transportation, \$169,740. (October 2017 - September 30, 2018).

117. "Accelerated Bridge Construction - University Transportation Center (ABC-UTC)" (PI; Co-PI: Muraleetharan). Funded by Florida International University \$120,000. (October 2016 – September 2017).
116. "Development of Statewide WIM Data Quality Control and Axle Load Spectra and Traffic Volume Adjustment Factors for Oklahoma" (PI). Funded by Oklahoma State University/SPTC. \$69,315. (May 2016 – May 2019\$70,0).
115. "Management of the Oklahoma Transportation Library: FFY2017" (PI; Co-PI: Pittenger). Funded by Oklahoma, Department of Transportation, \$169,745. (October 1, 2016 - September 30, 2017).
114. Southern Plains Regional Transportation Center (SPRTC): Year 3." (PI; Co-PIs: Miller and Barnes). Funded by OST-R, USDOT (total fund \$2,554,400). Oct. 2015 – Sept. 2018.
113. "Matching Funds for Southern Plains Transportation Center: Year 3." (PI; Co-PIs: Miller and Barnes). Funded by ODOT (total fund \$1,000,168). Oct. 2015 – Sept. 2018.
112. "Recommended Fatigue Test for Oklahoma Department of Transportation." (PI; Co-PI: Commuri and Barman). Funded by ODOT (extension with new funds, total fund \$74,820). Oct. 2013 – Sept. 2016.
111. "Management of the ODOT Library: FFY2016." (PI; Co-PI: Pittenger). Funded by ODOT. (total fund \$178,693). Oct. 2015 – Sept. 2016.
110. "Development of Guidelines for Selection of and Evaluation of Tack Coats in Oklahoma." (Co-PI; PI: Ghabchi). Funded by ODOT (total fund \$166,319). Oct. 2015 – Sept. 2017.
109. "Development of Aggregate Characteristics-Based Preventative Maintenance Treatments using 3D Laser Imaging and Aggregate Imaging Technology for Optimized Skid." (Co-PI; PI: Pittenger). Funded by ODOT with OSU as lead (total fund \$84,701). Oct. 2015 – Sept. 2017.
108. "Use of Ground Tire Rubber in Asphalt Pavements: Literature Review and DOT Survey." (Co-PI; PI: Ghabchi). Funded by ODEQ (total fund \$18,496). Nov. 2015 – May 2016.
107. "Special Provisions for Intelligent Compaction of Stabilized Soil Subgrades." (Co-PI; PI: Commuri, Barman). Funded by SPTC (total funds \$162,045). Oct. 2014 – Sept. 2016.
106. "Performance of Asphalt Binders Modified with Polyphosphoric Acid (PPA)." (PI; Co-PI: Ghabchi). Funded by ODOT/SPTC (total funds \$162,045). Oct. 2014 – Sept. 2016.
105. "Matching Funds for Southern Plains Transportation Center: Year 2." (PI; Co-PIs: Miller and Barnes). Funded by ODOT (total fund \$1,000,168). Oct. 2014 – Sept. 2017.
104. "Southern Plains Transportation Center (SPTC): Year 2" (PI; Co-PIs: Miller and Barnes). Funded by OST-R, USDOT (total fund \$2,581,600). Oct. 2014 – Sept. 2017.
103. "Field Performance Monitoring and Modeling of Instrumented Pavement on I-35 in McClain County: Phase II." (PI; Co-PI: Singh). Funded by ODOT (total funds \$91,432). Oct. 2012 – Dec. 2014.
102. "Fatigue Performance of Asphalt Pavements Containing RAS and RAP." (PI; Co-PI: Boeck and Singh). Funded by ODOT (total funds \$217,253). Oct. 2012 – Dec. 2014.
101. "Evaluation of Performance of Asphalt Pavements Constructed Using Intelligent Compaction Technologies." (Co-PI; PI: Commuri). Funded by ODOT (total funds \$219,417). Oct. 2012 – Sept. 2014.
100. "Creep Compliance and Percent Recovery of Oklahoma Certified Binders Using the Multiple Stress Creep Recovery (MSCR) Method." (PI; Co-PI: Hossain). Funded by ODOT (total funds \$203,871). Oct. 2012 – Dec. 2014.
99. "Matching Funds for Southern Plains Transportation Center," Funded by ODOT; PI (50%); \$1,000,168; with G. Miller and R. Barnes; Oct. 2013 – Sept. 2017.
98. "Southern Plains Regional Transportation Center (SPRTC)," Funded by OST-R, US Dept. of Transp., PI (50%) \$2,592,500; with G. Miller, R. Barnes; Oct. 2013 – Sept. 2017.

97. "Technology Transfer Support for Intelligent Compaction of Pavements – FY 2014." (Co-PI; PI: Commuri, Braman). Funded by Volvo Road Machinery (total funds \$119,960). Jan. 2014 – Dec. 2014.
96. "Evaluate Densifier-Over-Shotblasting (DOS) Treatment Performance for Pavements and Bridge Decks." (Co-PI; PI: Pittenger). Funded by ODOT (total funds \$217,929). Oct. 2013 – Sept. 2015.
95. "Management of the ODOT Library." (PI). Funded by ODOT (total fund \$149,803). Oct. 2014 – Sept. 2015.
94. "Management of the ODOT Library." (PI). Funded by ODOT (total funds \$74,984). Apr. 2014 – Sept. 2014.
93. "Recommended Fatigue Test for Oklahoma Department of Transportation." (PI; Co-PI: Commuri and Singh). Funded by ODOT (total funds \$458,527). Oct. 2012 – Sept. 2015.
92. "Matching Funds for Southern Plains Transportation Center: Year 1." (PI; Co-PIs: Miller and Barnes). Funded by ODOT (total fund \$1,000,168). Oct. 2013 – Sept. 2017.
91. "Southern Plains Transportation Center (SPTC): Year 1" (PI; Co-PIs: Miller and Barnes). Funded by OST-R, USDOT (total fund \$2,592,500). Oct. 2013 – Sept. 2017.
90. "Intelligent Compaction of Soil Subgrades and Asphalt Pavements" (Co-PI; PI: Commuri). Funded by Volvo Road Machinery (total fund \$119,993). Jan. 2012 – Dec. 2012).
89. "Evaluation of Enhanced Integrated Climatic Model for Oklahoma Pavements" (Co-PI; PI: Bulut and Muraleetharan). Funded by Oklahoma Transportation Center (total fund \$40,000). Oct. 2011 – Sept. 2013.
88. "Evaluation of Asphalt Pavements using a Portable Lightweight Deflectometer" (Co-PI; PI: Commuri). Funded by Oklahoma Transportation Center (total fund \$98,087). Oct. 2011 -June 2013.
87. "Improved Cover Aggregate Specifications to Enhance Chip Seal Performance" (PI; Co-PI: Commuri, Pittenger). Funded by Oklahoma Transportation Center (total fund \$139,660). Oct. 2011 – June 2013.
86. "Drying Shrinkage Problems in High PI Subgrade Soils" (Co-PI; PI: Bulut). Funded by Oklahoma Transportation Center (total funds: \$60,000). Oct. 2011 – Sept. 2013.
85. "New Asphalt Mix Design Program for ODOT" (Co-PI; PI: Commuri). Funded by ODOT (total fund \$89,995). Oct. 2011 – Sept. 2012.
84. "Develop Draft Chip Seal Cover Aggregate Specifications Based on Aggregate Imaging System (AIMS) Angularity, Shape and Texture Test Results" (PI; Co-PI: Commuri, Pittenger). Funded by ODOT (total funds \$131,380). Jan. 2011-Sept. 2013.
83. "OkTC Web Site, Electronic Warehouse and Networking" (PI). Funded by Oklahoma Transportation Center (total fund \$10,000). Jan – Dec. 2011.
82. "Enhancing Laboratory Facilities in Asphalt Research and Education: Sharing to Gain" (PI; Co-PI: Hatami, Commuri). Funded by Oklahoma Transportation Center (total fund \$333,288). Jan. 2011 – June 2013.
81. "Continuous Real-Time Measurement of Quality During the Compaction of Subgrade Soils." OTC; \$199,946; March 2010 – Feb. 2012 (Co-PI; PI: Commuri).
80. "Implementation of MEPDG for Asphalt Pavements with RAP." OTC; \$245,683; Feb. 2010 – Jan. 2012 (PI; Co-PI: Solanki, Hossain, Laguros).
79. "WMA Pavements in Oklahoma: Moisture Damage and Performance Issues." OTC/OSU; \$190,265; Feb. 2010 – March 2012; (PI; Co-PI: O'Rear).
78. "OTC Workshops and Seminars," Oklahoma Transportation Center (OTC-H2RO(00!0 22013(04)), March 2010 – Dec. 2011; \$64,312; (PI; Co-PI: Court).
77. "ODOT Guidelines for Geosynthetic Reinforcement in Aggregate Base Roadways in Oklahoma," OTC; Aug. 2009 – July 2011; \$194,304; (Co-PI; PI: Hatami).

76. "Development of ODOT Guidelines for Use of Geogrids in Aggregate Bases," ODOT, Oct. 2009 – Sept. 2011; \$189,638; (Co-PI; PI: Hatami).
75. "Analysis of Aggregates and Binders Used for the ODOT Chip Seal Program," ODOT, Oct. 2009 – Sept. 2010; \$111,084; (Co-PI; PI: Gransberg).
74. "Quantifying the Costs and Benefits of Pavement Retexturing as a Pavement Preservation Tool," OTC, Aug. 2009 – July 2011; \$118,602; (Co-PI; PI: Gransberg).
73. "Intelligent Asphalt Compaction Analyzer" (Co-PI; PI: S. Commuri, Haskell Lemon and EST). Funded by Highways for Life, FHWA (total fund \$200,000). May 2007 – Dec. 2009.
72. "Continuous Real-time Measurement of Pavement Quality during Construction" (Co-PI; PI: S. Commuri). Funded by Volvo Road Machinery (total fund \$140,393). Jan. – Dec. 2009.
71. "Modeling 85th Percentile Speed for Rural Highways for Enhanced Traffic Safety" (PI; Co-PI: L. White). Funded by ODOT (total fund \$96,192). Oct. 2008 – Sept. 2010.
70. "Development of Flexible Pavement Database for Local Calibration of MEPDG" (PI). Funded by ODOT (total fund \$80,325). Oct. 2008 – Sept. 2010.
69. "Tube Suction Test for Evaluating Durability of Cementitously Stabilized Soils" (PI; Co-PI: Solanki). Funded jointly by ODOT and OTC (total fund \$194,393). Oct. 2008 – Sept. 2010.
68. "OTC Summer Internship" (PI). Funded by OTC (total fund \$74,994). June 2008 – May 2011.
67. "Quantifying the Costs and Benefits of Pavement Retexturing as a Pavement Preservation Tool" (Co-PI; PI: D. Gransberg). Funded by Oklahoma Transp. Center (total fund \$195,501). May 2008 – Apr. 2010.
66. "Continuous Real-Time Measurement of Compaction Quality During the Construction of Asphalt Pavement" (Co-PI; PI: S. Commuri). Funded by OTC (Total fund \$99,893). Jan. – Dec. 2009.
65. "Wireless Sensor Packaging for Monitoring Airport Runways and Highway Bridges" (Co-PI with J. Pei (PI) and T. Ibrahim (Co-PI)). Funded by OCAST (total fund \$300,000). Dec. 2007 – Nov. 2011.
64. "Intelligent Asphalt Compaction Analyzer – Proposal for Refinement and Development of a Commercial Prototype" (Co-PI; PI: S. Commuri). Funded by Volvo Road Machinery (total fund \$190,782). June 2007 – Aug. 2009.
63. "OTC Work Program for the Remaining FY04 OTC Appropriation Funds Through FHWA" (PI; Co-PI: M. Court, J. Pei, C. Ramseyer and others). Funded by FHWA (total fund \$797,035). Jan. – Dec., 2008.
62. "OTC Work Program for FY05 OTC Appropriation Through FHWA: Turner-Fairbank Highway Research Center" (PI; Co-PIs: P. Pulat, K.D. Mish and others). Funded by T-FHRC, FHWA (total fund \$1.155M). Sept. 2006 – Mar. 2009.
61. "Field Correlation of PQI Gauge with Nuclear Density Gauge: Phase I" (PI; Co-PI: S. Commuri). Funded by Okla. Dept. of Transp. (total fund \$20,000). June – Sept. 2006.
60. "Field Performance Monitoring and Modeling of Instrumented Pavement on I-35 in McLain Co" (PI; Co-PI: K. Muraleetharan). Funded by Okla. Dept. of Transportation (total fund \$287,961). Oct. 2006 – Sept. 2011.
59. "OTC FY04 Federal Highway Earmark Projects for OSU and LU" (PI; Co-PI: T. Landers). Funded by Oklahoma Transportation Center (total fund \$534,630). Feb. 2006 – Dec. 2008.
58. "Public Perception of Noise Barriers in Oklahoma (Phase: I)" (Co-PI; PI: M. Nanny). Funded by Oklahoma Transportation Center (total fund \$67,500). Mar. 2005 – Aug. 2007.
57. "Permeability and Resilient Modulus of Different Aggregate Bases Commonly Used in Oklahoma" (Co-PI; PI: N. Khoury). Funded by Okla. Transp. Center (total fund \$58,000). Mar. 2005 – Oct. 2006.
56. "Effect of Anti-Stripping Additives on Performance-Graded Binders in Oklahoma" (PI; Co-PI: J.G. Laguros). Funded by Oklahoma Transportation Center (total fund \$68,672). Mar. 2005 – Mar. 2006.

55. "Engineering Properties of Stabilized Subgrade Soils for Implementation of the AASHTO 2002 Pavement Design Guide" (PI; Co-PI: N. Khoury). Funded by Oklahoma Dept. of Transportation (total fund \$296,152). Oct. 2005 – Sept. 2008.
54. "National Public Transportation Analysis" (Co-PI with Court (PI), Landers and others). Funded by Federal Transit Administration (total fund \$1,5M). Sept. 2004 – Aug. 2007.
53. "Maximum Chat Utilization – Test Road" (PI; Co-PIs: R. Nairn, G.A. Miller and K. Strevett). Funded by DoD-Corps of Engineers (total fund \$500K). May 2004 – Dec. 2007.
52. "Doctoral Fellowships in Sustainable Technologies for Civil and Environmental Systems" (Co-PI with R. Kolar (PI) and others). Funded by U.S. Dept. of Education (total fund \$793,344). Sept. 2003 – Aug. 2006.
51. "Research Experience for Undergraduates in Geoenvironmental Systems" (Co-PI with R. Kolar (PI) and others). Funded by National Science Foundation REU (total fund \$542,318). Mar. 2000 – Feb. 2005.
50. "Resilient Modulus and Other Geotechnical Testing of Subgrade Soils" (PI). Funded by Burgess Engineering and Testing, OKC (total fund \$6,396). Jan. 2003 – May 2004.
49. "Evaluation of Surface Free Energy Characteristics of Aggregate and Binders in HMA: Phase II" (PI). Funded by Oklahoma Transportation Center (total fund \$87,541). Oct. 2003 – Sept. 2004.
48. "Evaluation of Surface Free Energy Characteristics of Aggregate and Binders in HMA: Phase I" (PI). Funded by Oklahoma Transportation Center (total amount \$40,980). Jan. – Sept. 2003.
47. "Effect of Suction and Moisture on RM of Subgrade Soils in Oklahoma" (PI; Co-PI: G.A. Miller). Funded by Oklahoma Dept. of Transportation (total fund \$105,242). Oct. 2003 – Sept. 2005.
46. "Intelligent Asphalt Compaction Analyzer" (Co-PI; PI: S. Commuri). Funded by OCAST (total fund \$594,279, including match). Sept. 2003 – Aug. 2006.
45. "Evaluation of Surface Free Energy Characteristics of Aggregates and Binders in Hot Mix Asphalt: Phase I" (PI; C-PI: N. Wasiuddin). Funded by Oklahoma Transp. Center (total fund \$8,900). May – Sept. 2002.
44. "An Alternate Method for the Determination of Asphalt Content" (PI; Co-PIs: R.A. Tarefder and Y. Abousleiman). Funded by Oklahoma Transportation Center (total fund \$59,117). May – Sept. 2002.
43. "A Lab.Study to Optimize the Use of Raw Chat in Hot Mix Asphalt for Pavement Application" (PI; Co-PI: R. Nairn). Funded by Oklahoma Department of Environmental Quality (total fund \$200,000). Sept. 2002 – August 2004.
42. "Resilient Modulus and Density Gradient Analysis of Selected Asphalt Mixes" (PI). Funded by Oklahoma Dept. of Transportation and Federal Highway Administration (total fund \$153,044). Oct. 2001 – Sept. 2003.
41. "Rock Mechanics Institute Consortium: Phase III" (Co-PI; PI: Y. Abousleiman). Funded by Industry (total fund \$600,000, Year 3). Jan. – Dec. 2001.
40. "Acquisition and Development of Equipment for Unsaturated Soil Research" (Co-PI with G.A. Miller (PI) and K. Muraleetharan (Co-PI)). Funded by National Science Foundation (MRI Prog.) (Total fund \$368,778). July 2000 – June 2002.
39. "Acoustic Imaging and Mechanical Properties of Soft Rocks and Marine Sediments" (Co-PI with T. Scott (PI) and Y. Abousleiman (Co-PI)). Funded by U.S. Dept. of Energy (total fund \$366,718). Jan. 2001 – Dec. 2002.
38. "Integrated, Scalable MBS for Flow Through Porous Media" (Co-PI with D. Papavassiliou (PI) and H. Neeman (Co-PI)). Funded by National Science Foundation (total fund \$150,071). Sept. 2000 – Feb. 2002.
37. "High Performance Pavement Using Recycled Materials" (PI). Funded by OCAST (total fund \$115,000). Mar. 2000 – May 2003.

36. "Ray C. Broce Materials Laboratory" (Asphalt) (PI; Co-PIs: A.R. Kukreti and G.A. Miller). Funded by Broce Construction Co. (total fund \$140,000 including \$40,000 matching from VPRA). Aug. 1998 – Sept. 2000.
35. "Evaluation of Rutting Potential of Selected Mixes Using an Asphalt Pavement Analyzer" (PI). Funded by Oklahoma Dept. of Transportation. (total fund \$174,127 including \$40,000 matching from VPRA and \$30,000 matching from OAPA). Oct. 1999 – Sept. 2000.
34. "Settlement of Compacted Fill Embankments" (PI; Co-PI: G.A. Miller and K. Muraleetharan). Funded by Oklahoma Dept. of Transportation. (total fund \$80,944). April 1999 – March 2001.
33. "Durability of Chemically Stabilized Aggregate Bases" (PI; Co-PI: G.A. Miller). Funded by Oklahoma Dept. of Transportation. (total fund \$140,554). May 1999 – July 2001.
32. "Pavement Management Data Analysis" (PI). Funded by Oklahoma Dept. of Transportation. (total fund \$14,626). May 1999 – Jan. 2000.
31. "Technology Transfer Workshops" (PI; Co-PIs: M. Kanj, T. Scott and J.-C. Roegiers). Funded by OCAST. (total fund \$20,000). Sept. 1999 – Aug. 2000.
30. "Sooner City – Design Across the Curriculum" (Co-PI; A.R. Kukreti (PI), Kolar, Bush, Muraleetharan, Sabatini, Miller and others). Funded by National Science Foundation. (total fund \$750,000). Sept. 1998 – Aug. 2001.
29. "International Workshop on Sea Level Rise and Coastal Management" (PI). Funded by National Science Foundation. (total fund \$14,700). Feb. 1999 – Jan. 2000.
28. "Chemicals in the Environment – Doctoral Fellowships in Environmental Engineering" (Co-PI with R.C. Knox (PI), Canter, Kolar, Kukreti, Nairn, Strevett, Sabatini, Vieux and others). Funded by U.S. Dept. of Education. (total fund \$751,530). Aug. 1998 – July 2002.
27. "Mix Design Using Asphalt Millings" (PI; Co-PIs: A.R. Kukreti and G.A. Miller). Funded by Oklahoma Dept. of Transportation. (total fund \$77,655). Aug. 1998 – Sept. 2000.
26. "Automated Triaxial Test System for Unsaturated Soils" (Co-PI with K. Muraleetharan (PI), M.A. Mooney (Co-PI) and G.A. Miller (CoPI). Funded by OU Research Council (total fund \$51, 900). Sept.-Dec.1997.
25. "Laboratory and Field Evaluation of Soil Stabilization Using Cement Kiln Dust" (PI; Co-PI: G. Miller). Funded by Oklahoma Department of Transportation (total fund \$44,091). Oct. 1997-Sept. 1998.
24. "Use of Asphalt Millings for Subbase" Funded by Oklahoma Dept. Of Transportation (total fund \$12,938) (PI). Sept. 1, 1997 – Jan. 31, 1998.
23. "Improving Concrete Performance Through the Use of Blast Furnace Slag" (Co-PI with T. Bush (PI) and B. Russell (Co-PI)). Funded by Oklahoma Dept. of Transp. (total fund \$98,737). Jan. 1997 - December 1998.
22. "Laboratory Investigation of Soft Railroad Subgrade Failure Under Repeated Load Applications" (Co-PI; PI; G.A. Miller). Funded by Assoc. of American Railroad (total fund \$19,910). Jan. - June 1997.
21. "Impact of Loaded Trucks on Transportation Infrastructure Deterioration" (PI; Co-PI: M.A. Mooney). Funded by Oklahoma Dept. of Transportation (total fund \$10,364). Oct. 1996 - Jan. 1997.
20. "Groundwater Sensitivity Analysis for Potential Pollution Sources" (P.I.: M. Zaman; Co-P.I.s: A.R. Kukreti and K. Strevett). Funded by EPA (total fund \$253,038, including \$25,000 equipment match by OU). Oct. 1996 - Sept. 1999.
19. "Modeling the 85th Percentile Speed on Oklahoma Two-Lane Rural Highways: A Neural Net Approach" (PI; Co-PI: K. Muraleetharan) (total fund \$39,787). Funded by Oklahoma Department of Transportation, Jan. 1997 - June. 1998.
18. "Testing Screen for Sieving of Coarse and Fine Aggregates" (PI; Co-PI: J.G. Laguros). Funded by OU Research Council (total fund \$4,850). June - July, 1995.

17. "Nonlinear Analysis of Coupled Fluid/Rock Interaction" (Co-PI with Y. Abousleiman (PI), J.-C. Roegiers (Co-PI), G. Scott (Co-PI)). Funded by OCAST (total fund \$373,234). July 1995 - June 1998.
16. "Experimental Study of the Effects of Reinforcing Steel Arrangement in CRCP" (PI; Co-PI: G.A. Miller). Funded by Concrete Reinforcing Steel Institute (total fund (\$30,000). Feb. 1995 - Jan. 1996.
15. "Field Evaluation of Drainable Bases in Oklahoma" (PI; Co-PIs: K. Muraleetharan, J.G. Laguros). Funded by ODOT (total fund \$53,959). Jan. - Sept. 1995.
14. "Resilient Moduli of Raw and Stabilized Aggregate Bases and Evaluation of Layer Coefficients for AASHTO Flexible Pavement Design" (PI; Co-P.I.: J.G. Laguros). Funded by ODOT and FHWA (total fund \$274,053). Oct. 1994 - Dec. 1997.
13. "Cooling Properties of Asphalt Surfaces" (PI; Co-PI: J.G. Laguros). Funded by ODOT and FHWA (total fund \$7,410). Sept. - Dec. 1994.
12. "Demonstration of Engineering Mechanics: Physical and Computer Models as Teaching Tools" (Co-PI; PI: B. Russell). OU Instructional Improvement Award (total fund \$6,800). July 1994 - July 1995.
11. "Rock Mechanics Research Center: (Co-PI; with J.-C. Roegiers (PI) and D.W. Stearns (Co-PI)). Funded by NSF and OCAST (total fund NSF \$2.4M; OCAST \$2.4M; over \$2.4 M in industry matching). Sept. 1992 - Aug. 2000.
10. "Sample Preparation Equipment for Resilient Modulus Testing of Soils" (PI; Co-PI: J.G. Laguros). Funded by OU Research Council (total fund \$2,225; excluding matching). June - Dec. 1992.
9. "Effect of fluid Hydraulics on Petroleum Rock Behavior" (with A.R. Kukreti (PI) and F. Civan). Funded by OCAST (total fund \$115,241). Aug. 1992 - July 1995.
8. "Resilient Moduli of Select Aggregate Bases and Their Correlations with Other Engineering Properties" (PI; Co-P.I.: J.G. Laguros). Funded by Oklahoma Dept. of Transportation (ODOT) and Federal Highway Administration (FHWA) (total fund \$60,000). July 1991 - Sept. 1993.
7. "Laboratory and Field Testing to Characterize Bridge Approach Settlements at Selected Sites and Development of Settlement Evaluation Methodology for Predominantly Clay Sites" (PI; Co-PI: J.G. Laguros). Funded by Oklahoma Dept. of Transportation (ODOT) and Federal Highway Administration (FHWA), (total fund \$181,598). July 1991 - Sept. 1995.
6. "Resilient Moduli of Soils for Improved Pavement Design" (PI; Co-PI: J.G. Laguros). Funded by OCAST (total fund \$97,095). Dec. 1991 - Nov. 1994.
5. "Expert Systems for Reservoir Completion and Stimulation" (Co-PI; PI: J.C. Roegiers). Funded by OCAST and Rock Mechanics Consortium (RMC) (total fund \$245,402, excluding matching). Dec. 1991 - Jan. 1995.
4. "U.S.-Canada Workshop on Recent Accomplishments and Future Trends in Geomechanics in the 21st Century" (PI; Co-PIs: C.S. Desai and A.P.S. Selvadurai). Funded by the National Science Foundation (\$44,200). July 1, 1991 - Jan. 31, 1994.
3. "Study of Pore Collapse Problems in Oil Reservoir Rocks" (Principal Investigator; Co-P.I. - J.C. Roegiers). Funded by the Oklahoma Center for the Advancement of Science and Technology (OCAST) and Rock Mechanics Consortium (RMC), (total fund \$199,404, excluding cost-sharing). July 1990 - June 1993.
2. "Assessment of Current Resilient Modulus Testing Methods and Their Application to Design of Pavements". (PI; Co-PI: J.G. Laguros) Funded by the Oklahoma Dept. of Transportation (ODOT) and Federal Highway Administration (FHWA) (total fund \$7,500). July 1 - Dec. 30, 1990.
1. "Constitutive Modeling of Geological Formations Considering Porosity and Permeability Alterations Due to Fluid Withdrawal" (PI; Co-PI: A.R. Kukreti and F. Civan). Funded by the Oklahoma Mining and Mineral Resources Institute (total fund \$50,864, including cost-sharing). July 1, 1990 - June 30, 1991.

0. "Evaluation of Dynamic Response of Offshore Drilling Platforms and Soil Liquefaction Due to Arctic Loading" (PI). Funded by Univ. of Okla. Research Council (total fund \$6,361). March 1990 - Dec. 1990.
- 1. "Experimental Study of Pore Collapse Mechanisms in Porous Rock." (PI; Co-PI: M.O. Faruque). Funded by Energy Center, Univ. of Oklahoma (total fund \$6,000). Sept. 1989 - Aug. 1990.
- 2. "Underground Storage Tank Assessment Methodology" (Co-PI, PI: D. Sabatini). Funded by SEARCH, Inc. (total fund \$16,529). Aug. 1989 - Jan. 1990.
- 3. "Procurement of Software for CE 1111: Handheld Computers and ENGR 1112: Introduction to Engineering" (PI; Co-PIs: J.G. Laguros and B.J. Wallace) Funded by OU Inst. Support Program (total fund \$4,735 including cost-sharing). October 1988 to March 1989.
- 4. "Evaluation of Properties of Rocks and Characterization of Mine Collapse in the Picher Field Mining District, Oklahoma" (PI; Co-PI: J.L. Ahern). Funded by Oklahoma Mining and Mineral Resources Research Institute (OMMRRI) (total fund \$39,469 - including cost-sharing). July 1, 1988 - June 30, 1989.
- 5. "Evaluation of Causes of Excessive Settlements of Pavements Behind Bridge Abutments and Their Remedies: Phase III" (Co-PI; PI: J.G. Laguros). Funded by Oklahoma Dept. of Transportation (ODOT) and Federal Highway Administration (FHWA) (total fund for Phase III \$258,619), Dec. 1988 to May 1991.
- 6. "A Laboratory Model for Simulation of Transient Phreatic Surface Seepage Through Earth Dams" (PI; Co-PI: J.G. Laguros). Funded (total fund = \$3,740 including CEES and CoE cost-sharing) by OU Instructional Support Funds, Dec. 1987 to June 1988.
- 7. "Engineering Research Equipment Grant: A High Capacity (30,000 psig) Cubical Device." (PI; Co-PI: A.R. Kukreti). Matching funds for NSF from Okla. Dept. of Com. (total fund \$31,469), Jan. to Dec. 1988.
- 8. "A Cyclic Triaxial Device for Simulation of Soil Liquefaction." (PI) Funded by the OU Associates Fund, University of Oklahoma (total fund \$20,000, including cost sharing). Jan. 1 to June 30, 1988.
- 9. "Evaluation of Causes of Excessive Settlements of Pavements Behind Bridge Abutments and Their Remedies: Phase II." (Co-PI; PI: J.G. Laguros). Funded by Oklahoma Department of Transportation (ODOT) and FHWA (total fund for Phase II \$114,584), March 1987 to May 1989.
- 10. "Engineering Research Equipment Grant: A High Capacity (30,000 psig) Cubical Device". (PI; Co-PI: A.R. Kukreti). Funded by National Science Foundation (total fund \$62,939). June 1, 1987 to Nov. 30, 1988. Supplemental funds from NSF \$10,000 (January 1989). Duration: through May 31, 1990.
- 11. "Stability Analysis and Characterization of Ground Subsidence of Abandoned Lead-Zinc Mines in Northeastern Oklahoma". (PI; Co. PI - J.L. Ahern). Funded by Oklahoma Mining and Mineral Resources Research Institute (total fund \$40,200, including cost sharing). July 1, 1987 to Sept. 1, 1988.
- 12. "Development of a New Constitutive Model for Predicting Yielding and Failure Behavior of Rocks Under Three-Dimensional Loading". (PI; Co-PI: A.R. Kukreti). Funded by Energy Resources Institute (ERI) (total fund \$39,106, including CEES and CoE cost sharing), July 1, 1987 to July 31, 1988.
- 13. "Development of Constitutive Relationships for Anisotropic Materials under Three-Dimensional Loadings" (Co-PI; PI: A.R. Kukreti). Funded by the OU Research Council (total fund - \$9,190, including CEES and CoE contributions, for fabrication of a cubical device), April 1986.
- 14. "High Pressure Cubical Device: Deformation Measuring Unit" (Co-PI; PI: A.R. Kukreti). Funded by Energy Resources Institute (ERI) (total fund = \$7,000), March 1986.

- 15. "Development of a Numerical Procedure for Prediction of Ground Subsidence due to Coal Mining" (PI). Funded by the Oklahoma Mining and Mineral Resources Institute, (total fund \$21,043 including CEES and CoE cost sharing). July 1, 1986 to June 30, 1987.
- 16. "Computer Modelling and Simulation of Mining Systems" (PI). Funded by the Oklahoma Mining and Mineral Resources Research Institute, (total fund = \$7,236). July 1, 1985 to June 30, 1986.
- 17. "Evaluation of Causes of Excessive Settlements of Pavements Behind Bridge Abutments and their Remedies: Phase I" (Co-PI; PI; J.G. Laguros). Funded by the Oklahoma Department of Transportation (ODOT) and Federal Highway Administration (FHWA) (total fund = \$12,400). June 1985 to Feb. 1986.
- 18. "Modelling of Earthquake Induced Pore Pressure Buildup and Soil Liquefaction Including Effects of Dynamic Soil-Structure Interaction" (PI). Funded by the University of Oklahoma Research Council, (total fund - \$3,500). June 1 to August 30, 1985.
- 19. "Modelling of Flow of Immiscible Fluids in Heterogeneous, Irregular Shaped Reservoirs for Efficient Oil Recovery" (PI; Co-PIs A.R. Kukreti and F. Civan). Funded by the Energy Resources Institute (ERI), (total fund = \$24,080). July 1, 1984 to June 30, 1985.
- 20. "Procurement of Computer Software for Earthquake Engineering Research". Funded by the University of Oklahoma Research Council (total fund = \$2,207), (Co-PI; PI: L.R.L. Wang), February 1984.
- 21. "Analysis of Potential Environmental Implications Resulting from the Operation of Off-Site Oil and Gas Drilling Fluid Disposal Pits" (Faculty Associate; PI: L.W. Canter). Funded by Oklahoma Corporation Commission (total fund=\$108,922). Sept. 1983 to Apr. 1984.

GRADUATE STUDENT SUPERVISION:

- 94. Matias Mendez-Larrain (Ph.D. 2023). "Assessment of Pavement Conditions Using Traffic Speed Deflection Data and AI-Based Models."
- 93. Sagar Ghos (expected to graduate 5/24). "Study of Post-Consumer Recycled Plastic in Asphalt Mixes using Dry Process and Balanced Mix Design."
- 92. Jorge Luis Alva Alarcon (expected to graduate 5/24?); Advisor: Jorge Salazar Cerreno (Committee Member).
- 91. Syed A. Ali (Ph.D., 2021). "Moisture-Induced Damage Characterization of Asphalt Mixes: A Chemical, Thermodynamic and Mechanistic Approach."
- 90. Ghos, Sagar (M.S., 2020). "Evaluation of Causes of Transverse and Fatigue Cracking in Flexible Pavements Using Laboratory and Field Testing and PMED Simulation."
- 89. Chaojie Zhao (expected to graduate: 2021). "Mechanism of Casing Deformation During Multi-Fracturing in Shale Gas Wells." Petroleum Engineering, China Univ. of Petroleum, Beijing; OU Period: Nov. 2019 – Oct. 2020.
- 88. M. Ashiqur Rahman (M.S. 2019). "Laboratory Characterization of Foamed WMA Containing RAP."
- 87. Shivani Rani (Ph.D. 2019). "Characterization of Rutting in Asphalt Pavements Using Laboratory Testing."
- 86. Nur Hossain (Ph.D. 2017). "Mechanistic Input Parameters and Model Calibration for Design and Performance Evaluation of Flexible Pavements in Oklahoma."
- 85. Moeen Nazari (Ph.D. 2016). "Laboratory and Field Assessment of Chemically Treated Subgrade Moduli under Compressive and Flexural Loading."
- 84. Syed Ashik Ali (M.S. 2016). "Rheological Properties of Polymer and RAP-Modified Asphalt Binders using Multiple Stress Creep and Recovery Method."
- 83. Liam Cumberpatch (M.S. 2015). "Evaluate Densifier-Over-Shortblasting Pavement Treatment Performance for Oklahoma Limestone Aggregate" (Co-Advisor: Pittenger).

82. Rouzbeh Ghabchi (Ph.D. 2014), "Laboratory Characterization of Recycled and Warm Mix Asphalt for Enhanced Pavement Applications."
81. Debaroti Ghosh (M.S. 2014), "Characterization of Oklahoma Binders Using Multiple Stress Creep Recovery Method."
80. Ali Taghichian (M.S. 2013). "On the Geomechanical Optimization of Hydraulic Fracturing in Unconventional Shale."
79. Dominique Pittenger (Ph.D., 2012). "Stochastic Life Cycle Cost Analysis for Pavement Preservation Treatments," General Engineering (Co-Chair with Dr. Gransberg).
78. David Adje (M.S., 2012). "Effect of Recycled Asphalt Pavement on Mechanistic Performance of Hot Mix Asphalt."
77. Marc Breidy (2011). "Development of a Field-Based Fatigue Transfer Function for Flexible Pavement Section on I-35 in Oklahoma" (Co-Chair with Dr. Muraleetharan).
76. Roy Khalife (M.S., 2011). "Evaluation of Durability of Stabilized Clay Specimens Using Different Laboratory Procedures."
75. Caleb Riemer (Ph.D., 2011). "Quantifying the Costs and Benefits of Pavement Retexturing as a Pavement Preservation Tool" (Co-Chair: Dr. Gransberg).
74. Dharamveer Singh (Ph.D., 2011). "A Laboratory Investigation of Dynamic Modulus of Asphalt Mixes for Pavement Applications."
73. Zahid Hossain (Ph.D., 2011). "Evaluation of Rheological Properties of Asphalt Binders for Pavement Design Applications."
72. Nur Hossain (M.S. 2010). "Observed and Predicted Rut Behavior of an Instrumented Test Section on I-35."
71. Hasan Kazmee (M.S. 2010). "Effect of Gradation on Stiffness and Flow Behavior of Aggregate Bases: A Laboratory & Field Study."
70. Pranshoo Solanki (Ph.D. 2010). "Characterization of Cementitiously Stabilized Subgrades for Mechanistic-Empirical Pavement Design."
69. Ashish Gupta (M.S. 2009). Thesis title – "Effect of Mineral Fillers on Specific Gravity of Fine Aggregates".
68. Kunal Shah (M.S. 2007). Thesis title - "Effects of Gradation and Compaction Energy on the Hydraulic Conductivity of an Aggregate Base Commonly Used in Oklahoma" (Co-Advisor: N. Khoury).
67. Selvaratnam Selvamohan (M.S. 2007). Thesis title - "Effect of Anti-Stripping Additives on Performance Graded Binders in Oklahoma."
66. Nazimuddin Wasiuddin (Ph.D. 2007). Dissertation title - "Effect of Additives on Surface Free Energy Characteristics of Aggregates and Binders in Hot Mix Asphalt."
65. Sinniah K. Navaratnarajah (M.S. 2006). Thesis title - "Performance Characteristics of Selected Asphalt Mixes: A Laboratory and Field Study."
64. Ali Ebrahimi (Ph.D. 2006). Dissertation title - "Regression & Neural Network Modeling of Resilient Mod. Based on Routine Soil Properties & Stress State."
63. High-Ming Lim (M.S. 2005). Project title - Use of MDT for Subsurface Characterization."
62. Rajul V. Teredesai (M.S. 2005). Thesis title - "Stabilization of Pile Run Chat for Roadway Base Application."
61. Roland D. Sisson (M.S. 2005). Thesis title - "Laboratory and Field Study of Partial Depth Cold In-Place Recycling for Pavement Rehabilitation."
60. Naji N. Khoury (Ph.D. 2005). Dissertation title - "Durability of Cementitiously Stabilized Aggregate Bases for Pavement Application."
59. Salima Shamim (M.S. 2004). Project title - "A Comparative Laboratory Study of Hot Mix Asphalt and Warm Asphalt Using Sasobit."

58. Nishad Kolothody (M.S. 2004). Project title - "Superpave Mix Design Methodology for Chat Asphalt."
57. Wamiq Bin Hamid (M.S. 2004). Thesis title - "Use of Raw Chat in Hot Mix Asphalt Employing Superpave Design Methodology."
56. Abu Noman Ahsanuzzaman (Ph.D. 2004). Dissertation title - "Expert System for Evaluation of Nutrient Pollution Potential in Groundwater from Land Application of Manure." (Co-Adv.: K. Strevett).
55. Chadi A. Srour (M.S. 2003). Project title - "Flexural Strength and Resilient Modulus Limestone Aggregate Base Stabilized with Class C Fly Ash."
54. Tobia Elias Kmeid (M.S. 2003). Thesis title - "Experimental Study of Unconsolidated Sand Under High Confining Pressures."
53. Cheong Fung Ting (M.S. 2003). Thesis title - "Laboratory and Field Investigation of Asphalt Millings in Cold-Mixed, Cold-Laid Pavement Rehabilitation."
52. Rafiqul Tarefder (Ph.D. 2003). Dissertation title - "Laboratory and Model Prediction of Rutting in Asphalt Concrete."
51. Rajesh Nair (Ph.D. 2003). Dissertation title - "The Poromechanics of Naturally Fractured Rock Formations: A FEM Approach." (Co-Adv.: Y. Abousleiman).
50. Yanhui Han (M.S. 2001). Thesis Title: "Poroelastic Response of a Hollow Cylinder in a Non-Hydrostatic Stress Field" (Co-Chair; Chair: Y. Abousleiman).
49. Michelle P.-Y. Chin (M.S. 2001). Thesis Title: "Laboratory Testing and Constitutive Modeling of High Performance Concrete (HPC)" (Co-Supervisor: A.R. Kukreti).
48. Naji Najib Khoury (M.S. 2001). Thesis Title - "Effect of Freeze-Thaw and Wet-Dry Cycles on Resilient Modulus of Class C Fly Ash Stabilized Aggregate Base."
47. Emad Alnamasy (M.S. 2001). Thesis title - "Rutting Evaluation of Selected Mixes Using an Asphalt Pavement Analyzer (APA)."
46. Ping Tian (Ph.D. degree 1998). Dissertation title - "Evaluation of Resilient Moduli and Layer Coefficients of Aggregate Materials for AASHTO Flexible Pavement Design."
45. Jian-Hua Zhu (Ph.D. 1998). Dissertation title - "Characterization of Cement-Kiln-Dust Stabilized Base/Subbase Aggregate."
44. Marty Ray (M.S. 1997). Project title - "Comparison of MODULUS and ILLI-BACK Microcomputer-Based Systems for Back calculation of Pavement Layer Moduli."
43. Md. Emtazul Haque (M.S. 1997). Thesis title - "Experimental and Numerical Study of Model Continuously Reinforced Concrete Pavement Under Tensile Loading."
42. Jinggang Cao (M.S. 1997). Thesis title - "Modeling of Flow and Transport in Anisotropic and Heterogeneous Porous Media."
41. Kundan Pandey (Ph.D. 1996). Dissertation title - "Evaluation of Resilient Moduli and Layer Coefficients of a Coal Ash Stabilized Aggregate Base for AASHTO Flexible Pavement Design."
40. Motiar Rahman (M.S. 1996). Thesis title - "Evaluation of Pavement Drainage Systems Based on Field Performance."
39. Alan Soltani (Ph.D. 1996). Dissertation title - "Evaluation of Crack Formation and Spacing in Continuously Reinforced Concrete Pavements Using Small Scale Laboratory Experiments and Numerical Modeling."
38. Mazen Kanj (Ph.D. 1995). Dissertation title - "SITEX: The Sand Inflow Treatment Expert."
37. Geetha Krishnan (M.S. 1995). Thesis title - "Experimental Evaluation of Physical and Mechanical Properties of Antler Sandstone."
36. Hua Chen (M.S. 1995). Thesis title - "A User-Friendly Software for Prediction of Bridge Approach Settlement."
35. Luping Yi (M.S. 1995). Thesis title - "Resilient Moduli of Fly Ash Stabilized Aggregates."

34. Puneet Suri (M.S. 1995). Thesis title - "Stress Dependent Permeability of Rocks: The Experimental and Modeling Aspects." (Co-supervision with Professor Kukreti).
33. Dar-Hao Chen (Ph.D. 1994). Dissertation title - "Resilient Moduli of Aggregate Bases and A Mechanistic-Empirical Methodology for Flexible Pavements."
32. Rajesh Sehgal (M.S. 1994). Thesis title - "Numerical Modeling of Rigid Airport Pavements Including Effect of Initial Restraint on Warping and Rotation of Aircraft."
31. Dinesh Gupta (M.S. 1994). Thesis title - "Stability of Boreholes in a Transversely Isotropic Geologic Medium."
30. Ratan K. Jha (M.S. 1994). Thesis title - "Identification of Problematic Sites and Estimation of Bridge Approach Settlements using Statistical Models."
29. Abdulazeez Abdullaheem (Ph.D. 1993). Dissertation title - "Constitutive Modeling of Rocks and Numerical Simulation of Oil Reservoirs Exhibiting Pore Collapse."
28. Santanu Mowar (M.S. 1993). Thesis title - "Experimental Study of Pore Collapse in Limestone: Macroscopic and Microscopic Aspects."
27. Adhir K. Agarwal (M.S. 1993). Thesis title - "Free Vibration Analysis of Rectangular Plates Resting on a Two-Parameter Elastic Medium."
26. Ahmad I. Sayah (M.S. 1992). Thesis title - "Stabilization of a Highly Expansive Clay Using Cement Kiln Dust."
25. Ming-Way Wei (M.S. 1993). Thesis title - "A Phenomenological Creep Model for Geomaterials."
24. Arumugam Alvappillai (Ph.D. 1992). Dissertation title - "Dynamic Analysis of Rigid Pavements Considering Pavement-Subgrade-Aircraft Interaction."
23. Adedamola Oyesanya (M.S. 1992). Thesis title - "Laboratory Testing and Constitutive Modeling of Canadian River Sand."
22. Md. Iftekhar Hossain (M.S. 1992). Thesis title - "A Preliminary Creep Model for Avery Island Dome Salt for Nuclear Waste Repository Application."
21. Anuradha Khanna (M.S. 1992). Thesis title - "Dynamic Response of Cable-Stayed Bridges to Moving Vehicles Using Finite Element and Structural Impedance Methods."
20. Vivek Khanna (M.S. 1992). Thesis title - "Dynamic Response of Rigid Airport Pavement Subjected to Temperature-Induced Warping and Multiple Aircraft."
19. Dar-Hao Chen (M.S. 1992). Thesis title - "Three-Dimensional Testing and Constitutive Modeling of Coal for Analysis of Ground Subsidence Due to Mining."
18. Weng Chuan Low (M.S. 1990). Thesis title - "Analysis of Free Vibration of Plane Frames Resting on the Vlazov Two-Parameter Elastic Medium."
17. Yacoub M. Najjar (Ph.D. 1990). Dissertation title - "Constitutive Modeling and Finite Element Analysis of Ground Subsidence Due to Mining."
16. Iqbal U. Mahmood (Ph.D. 1990). Dissertation title - "Evaluation of Causes of Bridge Approach Settlement and Development of Settlement Prediction Models."
15. Riad Tabbaa (M.S. 1990). Thesis title - "A Comparative Study of Some Selected Plasticity Models for Granular Soil."
14. Jasney Abdul Ghani (M.S. 1989). Thesis title - "Analysis of Drilled Pier and Its Application to a Case Study of a Damaged Building on Expansive Soil."
13. Arumugum Gopalasingam (M.S. 1989). Thesis title - "Finite Element Analysis of Consolidation Settlements of Bridge Approach Foundation."
12. Nasim Uddin (M.S. 1989). Thesis title - "Analysis of Tank-Foundation - Halfspace Interaction Using Variational Approaches."
11. Azhar Mahmood (M.S. 1989). Thesis title - "Analysis of Circular Plate - Elastic Halfspace Interaction by Using a Variational Method."
10. Ali Honarmandebrahimi (M.S. 1988). Thesis title - "Laboratory Testing of a Weathered Shale Using Cubical and Triaxial Devices."

9. Imad Houssamy (M.S. 1987). Thesis title - "Three-Dimensional Nonlinear Finite Element Analysis of Underreamed Drilled Piles."
8. Nagesh Koragappa (M.S. 1987). Thesis title - "Analysis of Cylindrical Tank-Foundation Interaction Using an Energy Approach."
7. Yacoub Mohammad Najjar (M.S. 1986). Thesis title - "Three-Dimensional Nonlinear Finite Element Analysis of Pile Groups."
6. Saifuddin M. Mamoon (M.S. 1986). Thesis title - "Soil Liquefaction and Foundation Response Under Earthquake Loading."
5. Gopal Chandra Biswas (M.S. 1985). Thesis title - "Modeling of Soil Liquefaction and Foundation Response Under Cyclic and Earthquake Loading."
4. Asif Iqbal Uppal (M.S. 1985). Thesis title - "The Ultimate Capacity of Underreamed Drilled Piers by Finite Element Method."
3. Adnan Issa (M.S. 1985 co-supervision with A.R. Kukreti). Thesis title - "Analysis of Cylindrical Storage Tanks and Circular Plate Foundations Resting on Isotropic Elastic Halfspace Using an Energy Method."
2. Iqbal Uddin Mahmood (M.S. 1984). Thesis title - "Finite Element Analysis of Cylindrical Tank Foundations Resting on Isotropic Soil Medium Including Soil-Structure Interaction."
1. Soon-Lee Kuang (M.S. 1983). Thesis title - "Evaluation of Interface behavior in Soil-Structure Interaction."

PROFESSIONAL ACTIVITIES/SERVICE:

(i) Role in International/National Conferences/Symposia/Workshops:

50. Co-Chair, GeoChina International Conference 2021, held in Nan-Chang, China on July 19-21, 2021.
49. Co-Chair, 16th IACMAG International Conference, held in Torino, Italy, Aug. 30 – Sept. 2, 2022.
48. Co-Chair, IACMAG International Symposium, held in Gandhinagar, India on March 5-7, 2019.
47. Co-Chair, GeoChina Conference, held at HangZhou, China on July 23-25, 2018.
46. Co-Chair, GeoChina International Conference, held at Shandong, China on July 25-27, 2016.
45. Executive Committee Member, 2016 International Conference on Transportation Infrastructure and Materials, held at Xian, China on July 16-18, 2016.
44. Co-Chair, 15th IACMAG International Conference, held in Wuhan, China on October 20-23, 2017.
43. Co-Organizer, Transportation-Climate Summit, held in Norman, Oklahoma, September 30, 2014.
42. Co-Chair, GeoHubei International Conference, Hubei, China, July 20-22, 2014.
41. Co-Chair, 14th IACMAG Conference, held at Kyoto, Japan, September 22-25, 2014.
40. Co-Chair, 13th IACMAG Conference, held in Melbourne, Australia, May 9-11, 2011
39. Chief Proctor, EIT Exam. (ELSES) (from 2002 to 2010).
38. Co-Chair, 12th IACMAG Conference, held at Goa, India, Oct. 1-6, 2008.
37. Co-Chair, 11th IACMAG Conference, held at Turin, Italy, 2005.
36. Member of the Organizing Committee, Oklahoma Asphalt Pavement Association Conf., 2004.
35. Organizer, Asphalt Pavement Recycling Workshop (with OCAST, ODOT and Koch Pavement Solutions), Sept. 16, 2003.
34. Organizer of Technical Session "Computational Mechanics 1" at the 14th U.S. National Congress on Theoretical and Applied Mechanics, Virginia Tech., 2002.
33. Co-Chair, 10th IACMAG Conference, held at Tucson, Arizona, 2001.
32. Organizer and Chair of Session T4/2 "Neural Networks in Structural Analysis." Fourth Int. Conf. on Constitutive Laws for Engineering Materials, R.P.I., Troy, New York, July 27-30, 1999.
31. Co-Organizer (with E.C. Drumm, Univ. of Tennessee) of sessions 238, 272 and 333 at the 78th Annual Meeting, Transportation Research Board, Jan. 10-14, 1999.

30. Developer of Technical Session on Plasticity of Granular Materials (with Prof. A.R. Kukreti), Sixth International Symp. on Plasticity, held in Alaska, July 14-18, 1997.
29. Session Chair, "D2: Deep Excavation", 9th IACMAG Conf., held in Wuhan, P.R.C., Nov. 2-7, 1997.
28. Member, International Advisory Com., 9th IACMAG Conf., held in Wuhan, P.R.C., Nov. 2-7, 1997. Also, developing two technical sessions, one on Petroleum Rock Mechanics (with Dr. Y. Abousleiman) and the other on Discontinuous Deformation Analysis (with Prof. Salami).
27. Session Chair, Discrete Element Methods II, 2nd North American Rock Mech. Symp., held in Montreal, Canada, June 19-21, 1996.
26. Session Organizer, Session: Discrete Element Method/DDA, 2nd North American Rock Mech. Symp., held in Montreal, Canada, June 19-21, 1996.
25. Member, International Tech. Comm., First International Symp. on Discontinuous Deformation Analysis, held in Berkeley, California, June 12-14, 1996.
24. Developer of Technical Session and Chair, Third International Conference on Comp. Methods and Water Resources, held in Beirut, Lebanon, Sept. 25-28, 1995.
23. Co-Chairman, "Session - Mechanical and Hydraulic Properties of Rock", 35th U.S. Symp. on Rock Mechanics, held at Lake Tahoe, June 4-7, 1995.
22. Co-Chairman, "International Conf. of the Int'l. Assoc. of Computer Methods and Advances in Geomechanics (IACMAG-94)," held at the West Virginia Univ., Morgantown, May 22-28, 1994.
21. Chairman, "Session SM7 - Solid Mechanics", Second Asian-Pacific Conf. on Computational Mech., held in Sydney, Australia, Aug. 3-6, 1993.
20. Co-Organizer, "U.S.-Canada Workshop on Recent Accomplishments and Future Trends in Geomechanics in the 21st Century," held in Norman, Oklahoma, October 21-23, 1992.
19. Chairman of Session 7 "Thermoelasticity," Southeastern Conf. on Theoretical and Appl. Mech. (SECTAM XVI), held at Houston, Texas, Jan. 26-29, 1992.
18. Vice Chairman of Session CM-3 "Dynamics and Experimental Mechanics of Composite Materials II," Energy Technology Conf. and Exhibition (ETCE), held at Houston, Texas, Jan. 26-29, 1992.
17. Chairman of session "Constitutive Modeling", IACMAG-91 Conf., held in Cairns, Australia, May 6-11, 1991.
16. Co-Chairman of session "General and Cyclic Plasticity", Third International Conf. on constitutive Laws for Engineering Materials, held in Tucson, Arizona, January 7-11, 1991.
15. Co-Editor, Newsletter of the International Assoc. for Computer Methods and Advances in Geomechanics (1989 - present).
14. Member and Treasurer, Organizing Committee, 32nd U.S. Rock Mechanics Symposium, held in Norman, Oklahoma, July 1991.
13. Member, International Advisory Committee, 7th International Conference on Recent Advances and Comp. Methods in Geomechanics, held in Australia in 1991.
12. Chairman of Session CM-5 "Plasticity and Dynamics in Composite Materials," Energy Tech. Conference, New Orleans, Louisiana, January 14-18, 1990.
11. Reviewer, ASME Winter Annual Meeting, held at Chicago, Illinois, 1988.
10. Chairman of Session "Flow and Consolidation," 6th International Conference on Numerical Methods in Geomechanics, held in Austria, April 11-15, 1988.
9. Reviewer, 6th International Conference on Numerical Methods in Geomechanics, held April 1988 at Innsbruck, Austria.
8. Co-Chairman of session "Discontinuities, Contacts, Interfaces, Joints," Second International Conference on Constitutive Laws of Engineering Materials: Theory and Application," held at Tucson, Arizona, Jan. 5-8, 1987.
7. Moderator of session "Engineering," 75th Annual Meeting of the Oklahoma Academy of Science, held at Southeastern State University, Tahlequah, Oklahoma, November 14, 1986.

6. Moderator of session, "Structures," Southeastern Conference on Theoretical and Applied Mechanics (SECTAM) XIII, held at Columbia, South Carolina, April 17-18, 1986.
5. Co-editor, Proceedings of the International Symposium on Variational Methods in Geosciences, held at Norman, Oklahoma, October 15-17, 1985.
4. Member, Organizing and Steering Committee, ADSC Drilled Foundation Workshop for Engineering Faculty, held in Fort Collins, Colorado, July 12-18, 1987.
3. Organizer and co-chairman of session "Geomechanics," International Symposium on Variational Methods in Geosciences, held at Norman, Oklahoma, October 15-17, 1985.
2. Session Chairman, "Soil-Structure Interaction," 5th International Conference on Numerical Methods in Geomechanics, held at Nagoya, Japan, April 1-5, 1985.
1. Member, International Advisory Committee, 5th International Conference on Numerical Methods in Geomechanics, held at Nagoya, Japan, April 1-5, 1985.

(ii) Society Offices:

30. Member, Oklahoma's Premiere Research and Public Policy Organization (The Oklahoma Academy). (since 2014).
29. Executive Vice-President, International Association for Computer Methods and Advances in Geomechanics. (since 2008).
28. Board of Advisors, Physics and Biomedical Eng. Dept., UCO. (since 2008).
27. Vice President, International Assoc. for Computer Methods and Advances in Geomech. (since 2008).
26. Executive Committee Member, Council of University Transportation Center. (2016 – 2020)
25. Member, Warm Mix Asphalt Task Force. (2011 - 2019).
24. Interim Technical Director, Oklahoma Transportation Center (Jan. Dec., 2009).
23. Chair, OTC Education and Outreach Committee (since 2007).
22. Member, Council of University Transportation Center (CUTC) (since 2006).
21. Chair, Oklahoma Transportation Center Technical Committee (2006 – 2007).
20. OU Director, Oklahoma Transportation Center (October 2003 – December 2004).
19. Member (OU), Oklahoma Asphalt Pavement Task Force (since 2002).
18. Fellow, American Society of Civil Engineers. (since 2000).
17. Member, American Society of Engineering Education (ASEE) (since 1997).
16. Member, Society of Petroleum Engineers (SPE) (1997 - 2000).
15. Member, A2JO2 (Chemical and Mechanical Stabilization), Transportation Research Board (2001-2010).
14. Member, A2K05 (Modeling Techniques in Geomechanics; sub-committee on Neural Network).
13. Member, A2L02 (Soil and Rock Properties), Transportation Research Board (1997-2003).
12. Founding Member, American Rock Mechanics Association (since 1996).
11. Co-Chair, IACMAG Award Committee (since August 1996).
10. Board Member, International Association for Computer Methods and Advances in Geomechanics (IACMAG) (since 1996).
9. University Representative, Transportation Research Board, (since September 1993).
8. Chair, ASCE Deep Foundation Sub-Committee for Nominating Papers for Awards (June-August, 1993).
7. Editor, Newsletter of the International Association for Computer Methods and Advances in Geomechanics (IACMAG) (since 1991) (Co-Editors: Gioda, Ichikawa).
6. Elected Chairperson (Section I: Engineering), Oklahoma Academy of Science (11/87 - 11/88).
5. Member, U.S. Universities Council for Geotechnical Engineering Research (USUCGER) By-Laws Committee (3/87 - 3/88).

4. Co-Chairman of ADSC Joint Contractor-Technical Affiliate Committee (for establishing criteria for research to be funded by the HBW fund) (1987)
3. Chairman, ADSC Technical Affiliate Committee (6/84 - 12/94).
2. Elected Vice-Chairperson (Section I: Engineering), Oklahoma Academy of Science (11/86 - 11/87).
1. Member, ASCE Deep Foundations Committee (June 1987 - 1996)

(iii) Journal Editorial Board:

10. Editor-in-Chief, International Journal of Pavement Research and Technology (2023-Present)
9. Co-Editor, International Journal of Geomechanics, ASCE. (since April 2020).
8. Editorial Board Member, Soils and Foundation (Elsevier) (2017-2021).
7. Editorial Review Board Member, Studies in Surveying and Mapping Science. (since 2012).
6. Associate Editor, Journal, International Journal of Pavement Research and Technology. (2011-2022).
5. Member, Editorial Board, International Journal of Geotechnical Engineering (since 2007).
4. Editor-in-Chief, International Journal of Geomechanics, ASCE (since January 2009 – March 2020).
3. Associate Editor, International Journal of Geomechanics, ASCE (until 2008).
2. Co-Editor (Application Briefs), International Journal for Numerical and Analytical Methods in Geomechanics (until 2000).
1. Associate Editor, Petroleum Science and Engineering

TEACHING

Courses Taught:

CE 2153	Strength of Materials
CE 3363	Soil Mechanics
CE 2553	Engineering Surveying
CE 2113	Rigid Body Mechanics (Statics)
CE 3403	Macromeritics
CE 2103	Elementary Surveying
CE 5333	Foundation Engineering
CE 5413**	Soil-Structure Interaction
CE 5443**	Constitutive Laws of Engineering Materials
CE 5353*	Soil Dynamics
CE 6713	Theory of Elasticity
CE 5343	Advanced Soil Mechanics
CE 5693	Structural Design of Pavement
CE 5020**	Dynamic Soil-Structure Interaction
CE 5020**	Selected Topics in Foundation Engineering
CE 5020*	Theory of Plasticity
CE 5020**	Advanced Foundation Design

*Irregular courses *Courses developed and taught

UNIVERSITY SERVICE:

22. Search Committee Member, MPGE Chair (April 2018-Aug. 2019)
21. Member, GCoE Dean's Senior Advisory Committee (2016, 2017)
20. OU Councilor, Oak Ridge Associated Universities (since 2009)

19. Member, Presidential Professor Selection Committee (Sept. 2004 – Aug. 2007)
18. Member, VPR Advisory Com. (since 2007); Co-Chair, Strategy & Budget Sub-Com. (2009)
17. Member, VPR Task Force on Centers, Institutes and Consortia (April 2007 – Aug. 2007)
16. Associate Dean for Research and Graduate Education, College of Engineering (July 2005 – Dec. 2013)
15. Member, Faculty Awards and Honors Council (Sept. 2004 – Aug. 2007)
14. Acting Director, Rock Mechanics Institute (April 2000 – May 2001)
13. Member, OU Research Council (9/99 – 8/02; Chair, 9/01 – 8/02)
12. Member, Campus Tenure Committee (8/96 – 7/99)
11. Member, CoE Dean's Senior Advisory Committee (11/93 - 8/96; 10/97-10/98)
10. Member, OU Budget Council (appointed by the President) (9/93 - 8/96)
9. Committee A (CEES) (9/90 - 8/92; 8/94 – 8/96)
8. Member, OU Commencement Committee (9/89 - 8/92)
7. Member, OU Class Scheduling Committee (9/89 - 8/93)
6. Member, OU Faculty Senate (9/89 - 8/93)
5. Member, OU Parking and Transportation Subcommittee (9/86 - 10/88)
4. Chair, CoE Library Committee (8/86 - 8/87)
3. College of Engineering Library Committee (CEES rep.) (9/84 – 8/00)
2. Faculty Sponsor, Univ. of Oklahoma Vietnamese Student Association (8/83 - 12/90)
1. Faculty Sponsor, Univ. of Oklahoma Bangladesh Student Association (since Aug. 1982)

ADMINISTRATIVE EXPERIENCE:

9. Director, Southern Plains Transportation Center (2022-Present): Major activities in CY2022 include the following: (i) Formed a Core Group for proactively working on the Regional UTC proposal for the UTC competition held in 2022. The size of the consortium increased from eight to eleven. The group held regular meetings to discuss theme, needs and potential topics. These discussions helped solidify the consortium and developing a timely theme "Enhancing Economic Prosperity and Safety through Durable and Climate Resilient Transportation Infrastructure." Major efforts were made to receive commitment for significant cash match from ODOT. Also, major efforts were made to secure institutional match and letters of support. The proposal was submitted successfully on August 25, 2022; (ii) Worked closely with the ODOT leadership to generate funding for workforce development and outreach activities and applied projects through Service Agreement (\$500K/year); (iii) Was instrumental to generating nine projects (about \$500K total) through this Agreement in FY2022; (iv) Offered the 2022 Transportation Regional Internship Program (TRIP). With 25 plus students participating regionally, it was a very successful program; (v) Organized the 2022 Oklahoma Transportation Research Day on October 18, 2022 in collaboration with ODOT and ABC-UTC (OU is a member of this consortium, which is led by the Florida International University). With about 200 people attending in-person, it was a hugely successful event for workforce development, outreach and technology transfer. In addition to three keynote lectures and nine podium presentations, 36 posters were presented by students. The poster competition led to five winners; (vi) Organized a one-day short course on Alternative Dispute Resolution for Engineers; about 30 people attended this event; (viii) Organized many workshops, seminars, tech transfer and outreach activities; (ix) Worked closely with UC-Berkley on its National UTC proposal; (x) Worked closely with OSU on its Tier 1 UTC proposal.
8. Co-Director, ABC-UTC -- a Tier 1 University Transportation Center led by Florida International University, with OU as a consortium member. Responsible for soliciting research ideas, coordinating development and submission of proposals, organizing workforce development and outreach activities, attending all meetings, and submitting reports and data required by OST-R

including quarterly progress reports, bi-annual activities report, annual highlight, and performance indicators. Details of 2022 activities can be found at <https://abc-utc.fiu.edu/> OU is also a member of the Engineering Solutions for Resilient and Sustainable Coastal Infrastructure (INTERACT) consortium, which is led by FIU. INTERACT organizes national level webinars (see <https://interact.fiu.edu/> for details) and is seeking major funding for research. During CY22, OU worked closely with the FIU team in preparing its Tier 1 UTC proposal.

7. Director, Southern Plains Transportation Center (SPTC) (Oct. 2013 – 2021): Thanks to strong collaborations, outstanding institutional support, and hard work by many individuals, SPTC has accomplished a great deal during its relatively short existence. It has: (1) administered five funding competitions resulting in more than 60 research, education and workforce development grants totaling \$5.23 Million; (2) supported six early career research project collaborations between OU and OSU; (3) supported 17 research projects involving collaborations between at least two of the SPTC or external university partners; (4) provided financial support to more than 250 graduate research assistants, so far; (5) funded more than 150 undergraduate internships with partner companies, so far; (6) sponsored 26 workshops and seminars; (7) spearheaded and organized, in partnership with the South Central Climate Science Center, the 1st and 2nd Transportation-Climate Summit; (8) co-organized the Oklahoma Transportation Research Day (OTRD) with ODOT each year; (9) developed a student organization, Transportation Leadership Council (TLC), which now has a vibrant chapter at OU and partner institutions; (10) granted four SPTC Student of the Year Awards, two Dissertation Awards, and three Master Thesis Awards to deserving students; and (11) hosted SPTC Leadership Forum at UTEP-El Paso in 2018 and at University of Arkansas in 2019; both included a strong TLC program with participation of more than 30 students from partner institutions. There are many other activities and tangible benefits from SPTC that are not on this list. Furthermore, execution of these programs and building of formal relationships with partner institutions, state DOTs and the industry required a tremendous amount of behind the scenes work to develop the business infrastructure and needed policies and procedures.
6. Associate Dean for Research and Graduate Programs (July 2005 to December 2013). (a) Provided leadership in expanding the annual research expenditures of the College from \$17.9 Million (FY06) to more than \$21 Million in FY13; (b) Grants in-force increased from \$49.2 Million (239 projects in FY06) to \$71.8 Million (258 projects in FY10); (c) Archival publications of the College increased steadily. Also, CoE invention disclosures (about 10 per year) and patents (about 9 per year) remained healthy; (d) Introduced and funded Seed Funding for Interdisciplinary Research (\$10K/project) to promote interdisciplinary collaboration; (e) Formalized the graduate programs in General Engineering; (f) Introduced and funded Interdisciplinary Undergraduate Research Opportunity Program (ID-UROP; \$2K/project) to enhance interdisciplinary research among undergraduate students; (g) Organized Graduate Programs Information Symposium (GPiS) to enhance graduate enrollment; (h) Played a key role in introducing Centennial Fellowship (\$5K/year for up to three years); and (i) Organized interdisciplinary seminars and research roundtables.
5. Interim Technical Director, OTC (Jan. – Dec., 2009). (a) Developed a process for submission and review of quarterly progress report; (b) Developed a process for submission and review of annual progress report; (c) Prepared OTC Newsletters; (d) Enhanced ODOT-OkTC Research Day making it a major venue for dissemination of OkTC products; (e) Organized seminars and workshops; (f) Held a successful funding competition in 2009; (g) Developed a process and used it to select OTC Student of the Year.
4. OU Director, Oklahoma Transportation Center (OTC) (2003-2005; Executive Director for one year, 2005). Organized monthly meetings; prepared grant applications for major funding; provided leadership in strengthening collaborations among OTC institutions (OU, Oklahoma State

University and Langston University) in securing matching funds, required by the funding agency, RITA-USDOT.

3. Acting Director, Rock Mechanics Institute (2000-2001). Managed the affairs of the institute including the research program, students, research scientists and staff. The institute had an annual budget of more than \$1 Million.
2. Technology Transfer Manager, Rock Mechanics Research Center (RMRC) (1992-2000). Provided leadership in organizing technology transfer activities including bi-annual meetings with the members of the Rock Mechanics Consortium and organizing seminars and workshops. The annual expenditures of the Center were about \$1.2 Million.
1. Member, Committee A (1990-1992, 1994-1996). As a member of Committee A, Dr. Zaman was actively involved in the administrative affairs of Civil Engineering and Environmental Science (CEES) including faculty evaluation, faculty recruitment, budget discussions, and policy decisions.