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Department Chair and Professor

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BIOGRAPHICAL SKETCH:

I am an innovative Manager, Educator, and Researcher with over thirty-five years of collaborative experience, focusing on Civil Engineering and Construction Materials and Methods. My professional and academic career includes employment in both the public and private sectors, including design, construction oversight, and workforce development. I earned the Doctorate degree (Ph.D.) in Civil Engineering from Oregon State University and am a licensed Professional Engineer in Florida, Georgia and South Carolina. I joined Clemson University as Professor and Department Chair in the Fall of 2017.

EDUCATION:

1. Oregon State University, Ph.D., Civil Engineering (Pavement Materials), 1992;
2. University of South Florida, MSCE, Civil Engineering (Geotechnical), 1988; and
3. University of South Florida, BSCE, Civil Engineering, 1987.

PROFESSIONAL LICENSES:

Professional Engineer (**PE**): Florida, Georgia, and South Carolina.

PROFESSIONAL AFFILIATIONS:

1. Past President, Florida First Coast Chapter, American Concrete Institute (**ACI**);
2. Member, Associated Schools of Construction (**ASC**);
3. Member, American Institute of Steel Construction (**AISC**);
4. Charter Member of the Transportation and Development Institute, and *ExCEED* Teaching Workshop Graduate, American Society of Civil Engineers (**ASCE**);
5. Member, **Chi Epsilon** – Civil Engineering National Honor Society; and
6. Member, **Order of the Engineer**.

ACADEMIC EXPERIENCE:

Department Chair and Professor, Neri Department of Construction, Development and Planning, College of Architecture, Art and Construction, Clemson University, 2017–Present. Currently serve as Chair of the Neri Department of Construction, Development and Planning (NCDP) at Clemson University, including a growing faculty and staff of twenty-five (25) full-time professionals, twenty (20) part-time lecturers, and over 400 degree seeking undergraduate and graduate students. As Chair of the NCDP department, I have managed the acquisition of existing graduate degree programs in Real Estate Development and City and Regional Planning; national re-accreditation of the department's undergraduate and graduate degree programs; mindfully doubled undergraduate student enrollment over the past six years; introduced an on-line cohort for all undergraduate courses offered in the department; established a new Ph.D. program in Construction Management (10 active Ph.D. students); and substantially increased external funding for the department, including a \$5 Million naming endowment, and the growth of over \$500k per year in discretionary funding (Corporate Partners). As a result, the NCDP department is currently the highest performing department in the college, and the degree programs consistently rank among the top tier programs nationally.

Department Chair and Professor, Department of Civil Engineering and Construction Management, Allen E. Paulson College of Engineering and Information Technology, Georgia Southern University, 2013–2017. Managed the Department's annual operating budget of over \$2 million, and served as Chair of two accredited academic units, including a faculty and staff of twenty (20) professionals, and over 800 degree seeking students. As Department Chair, I led the Civil Engineering program through initial ABET accreditation in 2013, and the Construction Management program through ACCE re-accreditation in 2014. I also facilitated the development of a new Bachelor's degree program in Construction Engineering and a new Master's degree program in Civil Engineering (MSCE) in 2017.

Assistant Professor, Dept. of Civil and Environmental Engineering, the University of Tennessee, Knoxville, 1997-2001. Taught undergraduate and graduate coursework and conducted over \$2 Million in externally funded research related to Civil Engineering and Construction Materials and Methods.

REFEREED JOURNAL/BOUND VOLUME PUBLICATIONS:

1. Willett, Christopher; Fu, George Yuzhu; Jackson, Nathaniel Mike, "Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Plants," Environmental Engineering and Management Journal, [S.l.], v. 18, n. 5, p. 945-956, may 2019. ISSN 1843-3707;
2. Ye, Fan, Carlson, P., and Jackson, N.M., "Use of High Intensity Reflective Sheeting in lieu of External Lighting of Overhead Roadway Signs in Florida," Journal *TRANSPORT* by Taylor & Francis, Jan 2017, ISSN 1648-4142/eISSN 1648-3480, DOI:10.3846/16484142.2016.1264469;

3. Adel ElSafty, Matthew K. Graeff, Georges El-Gharib, Ahmed Abdel-Mohti, and N. Mike Jackson, “**Analysis, Prediction, and Case Studies of Early-Age Cracking in Bridge Decks,**” International Journal of Advanced Structural Engineering (IJASE), ISSN 2008-3556, DOI 10.1007/s40091-016-0123-z, May 2016;
4. Zhaoxing Xie, Junan Shen, Matthew Earnest, Bo Li, and Mike Jackson, “**Fatigue Performance Evaluation of Porous European Mix (PEM) with Crumb Rubber Modified Binders Using Simplified Viscoelastic Continuum Damage Model,**” Journal of the Transportation Research Board, TRR No. 2506, National Research Council, Washington, D.C., 2015, pp 90-99, ISSN 0361-1981, DOI: 10.3141/2506-10;
5. Maghiar, M., Sturges D., Maurer,T. and Jackson, M. “**Exploration of Student Perceptions, Behaviors and Academic Performance in Construction Management Classes,**” International Journal of Construction Education and Research, Feb. 2015;
6. El Safty, A., Abdel-Mohti, A., Jackson, N.M., Lasar, I., and Paredes, M. “**Limiting Early-Age Cracking in Concrete Bridge Decks,**” Advances in Civil Engineering Materials, Vol. 2, No. 1, 2013, pp. 379–399, doi:10.1520/ACEM20130073. ISSN 2165-3984;
7. Choubane, B., Lee, H.S., Holzschuher, C., Upshaw, P. and Jackson, N.M., “**Harmonization of Texture and Friction Measurements on Florida’s Open and Dense Graded Pavements,**” Journal of the Transportation Research Board, TRR No. 2306, National Research Council, Washington, D.C., 2012, pp 122-130, ISSN 0361-0361-1981, DOI: 10.3141/2306-14;
8. Paredes, Mario, Jackson, N. Mike, El Safty, Adel, Dryden, John, Joson, Joseph, Lerma, Hugo, and Hersey, Jeremiah, “**Precision Statements for the Surface Resistivity of Water Cured Concrete Cylinders in the Laboratory,**” Advances in Civil Engineering Materials, Vol. 9, Issue 4, 2012, pp. 1–23, doi:10.1520/ACEM104268. ISSN 2165-3984;
9. Sayed M Sayed, John M Pulsifer, and N.M. Jackson, “**UNRAP – Are We Ready For It?**” ASCE Journal of Materials in Civil Engineering, Vol. 23, Iss. 2, pp. 188-196, February 2011, ISSN 0899-1561, DOI: 10.1061/(ASCE)MT.1943-5533.0000157;
10. Holzschuher, C., Choubane, B., Lee, H. and Jackson, N.M., “**Measuring Friction of Patterned/Textured Pavements: A Comparative Study,**” Journal of the Transportation Research Board, TRR No. 2155, National Research Council, Washington, D.C., 2010, pp 91-98, ISSN 0361-1981, DOI: 10.3141/2155-10;
11. Jackson, N.M., Choubane, B., and Holzschuher, C., “**Assessment of Precision of Circular Track Meter and Dynamic Friction Tester,**” Journal of the Transportation Research Board, TRR No. 2093, National Research Council, Washington, D.C., 2009, pp 118-127, ISSN 0361-1981, ISBN 978-0-309-12624-3, DOI: 10.3141/2093-14;
12. Jackson, N.M., Choubane, B., and Holzschuher, C., “**Practical Approach to Measuring and Reporting Friction and Macro-Texture at Variable Test Speeds,**” Journal of the Transportation Research Board, TRR No. 2094, National Research Council, Washington, D.C., 2009, pp 103-111, ISSN 0361-1981, ISBN 978-0-309-12611-3, DOI: 10.3141/2094-11;
13. Jackson, N.M., Schultz. S., Sander, P., and Schopp, L., “**Beneficial Use of CFB Ash in Pavement Construction Applications,**” Journal FUEL, 2008 Elsevier Ltd., Burlington, MA, Fuel 88 (2009), pp. 1210-1215, ISSN 0016-2361, DOI: 10.1016/j.fuel.2008.04.031;

14. Jackson, N. M., Choubane, B., Hammons, M., Holzschuher, C., and Walker, R. **“Recommended Practice for Identifying Vibration Sensitive Work Zones Based on FWD Data,”** Journal of the Transportation Research Board, TRR No. 2081, National Research Council, Washington, D.C., 2008, pp. 139-149, ISSN 0361-1981, DOI: 10.3141/2081-15;
15. Choubane, B., Holzschuher, C., Simmons, T.C., Jackson, N.M., and Fletcher, J., **“Characteristics of Laserlux Operations for Mobile Retroreflectivity,”** International Journal of Pavements, Vol. 5, Nos. 1-2-3, January-May-September 2006, pp. 188-196, ISSN 1676-2797;
16. Choubane, B., Gokhale, S., Jackson, N.M., and Nazef, N., **“Assessing the Precision of Falling Weight Deflectometer for Field Measurements,”** Journal of ASTM International, Vol. 3, No. 3, March, 2006, Paper ID JAI14205;
17. Jackson, N.M., Choubane, B., Holzschuher, C., and Gokhale, S., **“Measuring Pavement Friction Characteristics at Variable Speeds for Added Safety,”** Journal of ASTM International, Vol. 2, No. 10, November/December 2005, Paper ID JAI13041;
18. Salem, R.M., Burdette, E.G., and Jackson, N.M., **“Freeze-Thaw Durability of Recycled Aggregate Concrete,”** ACI Materials Journal, Vol. 100, No. 3, May-June, 2003, pp. 216-221, ISSN 0889-325x;
19. Jackson, N.M., and Czor, L.J., **“100-mm Diameter Mold Used with Superpave Gyrotory Compactor,”** ASCE Journal of Materials in Civil Engineering, Vol. 15, No. 1, January/February 2003, pp. 60-66, ISSN 0899-1561;
20. Jackson, N.M., Jubran, A., Hill, R.E., and Head, G.D., **“The Road to Smooth Pavements in Tennessee,”** *Constructing Smooth Hot Mix Asphalt (HMA) Pavements, ASTM STP 1433*, M.S. Gardiner, Ed., Amer. Soc. for Testing and Materials, West Conshohocken, PA, 2003, pp. 58-67, ISBN 0-8031-3460-6;
21. Salem, R.M., Jackson, N.M., and King, C.N., **“Evaluation of Temporary Pavement Markings in Work Zones,”** *Technical Note*, International Journal of Pavements, Vol. 1, No. 3, September 2002, pp. 95-96, ISSN 1676-2797;
22. Chatterjee, A., Wegmann, F.J., Jackson, N.M., Everett, J.D., and Bray, L.G., **“Impact of Increased Truck Traffic Due to Chickamauga Lock Closure,”** Journal of the Transportation Research Board, TRR No. 1763, National Research Council, Washington, D.C., 2001, pp. 80-84, ISSN 0361-1981, DOI: 10.3141/1763-12;
23. Jackson, N.M., and Baldwin, C.D., **“Assessing the Relative Rutting Susceptibility of HMA in the Laboratory with the Asphalt Pavement Analyzer,”** The International Journal of Pavement Engineering, 2000, Vol. 1(3), pp. 203-217;
24. Jackson, N.M., Andrew, J.W., and Drumm, E.C., **“Estimation of Design Season Modulus for Overlay Design,”** *Nondestructive Testing of Pavements and Backcalculation of Moduli: Third Volume*, ASTM STP 1375, S.D. Tayabji and E.O. Lubanen, Eds., American Society for Testing and Materials, West Conshohocken, PA, 1999, pp. 499-513;
25. Andrew, J.W., Jackson, N.M., and Drumm, E.C., **“Measurement of Seasonal Variations in Subgrade Properties.”** *Application of Geotechnical Principles in Pavement Engineering*, Geotechnical Special Publication Number 85, A.T. Papagiannakis and C.W. Schwartz, Ed., ASCE, Reston, Virginia, 1998, pp. 13-38;

26. Huber, G.A., Jones, J.C., Messersmith, P.E., and Jackson, N.M., "**Contribution of Fine Aggregate Angularity and Particle Shape to Superpave Mixture Performance,**" Journal of the Transportation Research Board, TRR No. 1609, National Research Council, Washington, D.C., 1998, pp. 28-35, ISSN 0361-1981, DOI: 10.3141/1609-04;
27. Guan, Y., Drumm, E.C., and Jackson, N.M., "**Weighting Factors for Seasonal Subgrade Resilient Modulus,**" Journal of the Transportation Research Board, TRR No. 1619, National Research Council, Washington, D.C., 1998, pp. 94-101, ISSN 0361-1981, DOI: 10.3141/1619-11;
28. Jackson, N.M., and Dukatz, E.L., "**An Evaluation of the Suitability of the Superpave System to the Design of LRA Mixes.**" *Progress of Superpave (Superior Performing Asphalt Pavement): Evaluation and Implementation*, ASTM STP 1322, R.N. Jester, Ed., American Society for Testing and Materials, 1996, pp. 118-125; and
29. Jackson, N.M., and Vinson, T.S., "**Analysis of Thermal Fatigue Distress of Asphalt Concrete Pavements,**" Journal of the Transportation Research Board, TRR No. 1545, National Research Council, Washington, D.C., 1996, pp. 43-49, ISSN 0361-1981, DOI: 10.3141/1545-06.

REFEREED CONFERENCE PROCEEDINGS:

1. Marcel Maghiar, Gustavo Maldonado, Sam Newsome, Jerome Clendenen and Mike Jackson, "**Accuracy Comparison of 3D Structural Models Produced via Close-Range Photogrammetry and Laser Scanning,**" Construction Research Congress (CRC) Conference. San Juan, PR, May 31-June 2, 2016;
2. Gustavo Maldonado, Marcel Maghiar, N. Mike Jackson, Denzell M. Garrett and Kenneth E. Givens, "**Comparison of Building Measurements Acquired via Laser-Based Scanner and Modern Total Station,**" Proceedings of the 51st Annual International Conference of the American Schools of Construction. Texas A&M University, College Station, April 22-25, 2015;
3. L.V. Sieck, K. Morgan, A. Mahfood, J.B. Kucera, W. Smallwood, and N.M. Jackson, "**Containment and Dewatering of Dredged Materials Using Geotextile Tubes,**" *Proceedings of the WEDA XXXIV Technical Conference*, Toronto, Canada, June 14-18, 2014;
4. Ye, Fan, Carlson, P., and Jackson, N.M., "**Use of High Intensity Reflective Sheeting in lieu of External Lighting of Overhead Roadway Signs in Florida,**" *Proceedings of the Transportation Research Board, 93rd Annual Meeting*, Washington, D.C., Jan. 14, 2014;
5. Greene, J., Choubane, B., and Jackson, N.M., "**Benefits Achieved from Florida's Accelerated Pavement Testing Program,**" *Proceedings of the Transportation Research Board, 92nd Annual Meeting*, Washington, D.C., January 13-17, 2013;
6. Jackson, N.M. and Schultz, S., "**FDOT Testing and Evaluation of a Beneficial Re-Use Base Course Material,**" *Proceedings of the ASCE GeoInstitute, GeoFlorida 2010 Conference*, West Palm Beach, Florida, February 20-24, 2010;
7. Choubane, B., Nazef, A., and Jackson, N.M., "**Performance Evaluation of Crack-and-Seat Rehabilitation Strategy: Ten-Year Perspective,**" *Proceedings of the Transportation Research Board, 86th Annual Meeting*, Washington, D.C., January 21-25, 2007;

8. Johnson, D.R., Jackson, N.M., and Sauer, T.M., “**Field Evaluation of Pavement Rehabilitation Using Full-Depth Reclamation,**” *Proceedings of the ASCE Airfield and Highway Pavements Conference*, Atlanta, Georgia, April 30-May 3, 2006, pp. 824-835, ISBN 0-7844-0838-6;
9. Jackson, N.M., Dave, D., Sebaaly, P.E., and Porritt, G.L., “**Preventive Surface Treatments versus Traditional Corrective Maintenance Measures,**” *TRB Transportation Research Circular, Number E-C078, Roadway Pavement Preservation 2005, Papers from the First National Conference on Pavement Preservation*, Kansas City, Missouri, Oct. 31 – Nov. 1, 2005, pp. 120-131, ISSN 0097-8515;
10. Jackson, N. M., Wacker, B.T., and Campbell, G., “**Application of Water Adsorption Index in Characterizing the Suitability of Fines for PCC,**” *Proceedings of the ConMat '05, Conference on Performance of Materials and Test Methods for Performance Criteria*, University of British Columbia, Vancouver Canada, August 22-24, 2005, pg 143, ISBN 0-88865-810-9;
11. A. Appea, M.W. Kumara, M. Tia, N.M. Jackson, B. Choubane, and M. Bergin, “**Concrete Slab Instrumentation Procedure and Comparison of Field Measured Responses to Computed Responses,**” *Proceedings of the Fifth International Conference on Road and Airfield Pavement Technology*, Seoul, Republic of Korea, May 10-12, 2005;
12. Salem, R.M., Burdette, E.G., and Jackson, N.M., “**Interrelationship of Physical Properties of Concrete Made with Recycled Aggregates,**” Presented and Published in the *Proceedings of the Transportation Research Board, 82nd Annual Meeting*, Washington, D.C., January 12-16, 2003;
13. Salem, R.M., Burdette, E.G., and Jackson, N.M., “**Effects of Strength Variations of Concrete on the Physical Properties and Frost Resistance of Recycled Aggregate Concrete,**” *Proceedings of the Transportation Research Board, 81st Annual Meeting*, Washington, D.C., January 13-17, 2002;
14. Jackson, N.M., Choubane, B., and Musselman, J.A., “**A Preliminary Evaluation of FC-5 and FC-6 Friction Courses in Florida,**” *Proceedings of the Pavement Evaluation 2002 Conference*, Roanoke, VA, October 21-25, 2002;
15. Jackson, N.M., Salem, R., and Thiesse, S., “**Evaluation of Temporary Pavement Marking Materials and Methods,**” *Proceedings of the Second International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control*, Auburn, Alabama, August 1, 2001;
16. Jackson, N.M., and Reid, D.L., “**Implementation of Network Level Pavement Management in Tennessee,**” *Proceedings of the Fifth International Conference on Managing Pavements*, Seattle, Washington, August 10-14, 2001;
17. Whitten, B.N., Chou, K.C., and Jackson, N.M., “**Probabilistic-Based Performance Prediction for HMA Pavements,**” *Proceedings of the 8th International Conference on Structural Safety and Reliability*, Newport Beach, California, June 17-22, 2001;
18. Jackson, N.M., and Baldwin, C.D., “**Evaluation of the Asphalt Pavement Analyzer to Predict the Relative Rutting Susceptibility of HMA in Tennessee,**” *Proceedings of International Conference on Accelerated Pavement Testing*, University of Nevada, Reno, Nevada, October 18-20, 1999;

19. Drumm, E.C., Rainwater, N.R., Andrew, J., Jackson, N.M., Yoder, R.E., and Wilson, G.V., **“Pavement Response Due to Seasonal Changes in Subgrade Moisture Conditions,”** *Proceedings, The 2nd International Conference on Unsaturated Soils*, August, Beijing, China, Volume 2, pp. 196-201, 1998;
20. Vinson, T.S., Jackson, N.M., and Jung, D.H., **“Thermal Cracking Resistance of Asphalt Concrete: An Experimental Approach,”** *Proceedings of the 7th International Conference on Asphalt Pavements*, Nottingham, England, September, 1992; and
21. Jackson, N.M., Vinson, T.S., and Janoo, V., **“Thermal Fatigue Cracking of Asphalt Concrete Pavements - An Experimental Approach,”** *Proceedings of the International Conference, Strategic Highway Research Program and Traffic Safety on Two Continents*, Gothenburg, Sweden, September 18-20, 1991, pp. 53-64.

OTHER PUBLICATIONS AND PRESENTATIONS DELIVERED:

1. Junsuk Kang, Mike Jackson, Gustavo Maldonado, Peter Rogers, Marcel Maghiar, David Jared, Gretel Sims. **“Accelerated Bridge Construction (ABC) Toolkit for Georgia City and County Roads,”** 2015 National ABC Conference, Miami, FL, Dec., 7-8, 2015;
2. Zhaoxing Xie, Bo Li, Junan Shen, Matthew Earnest, and Mike Jackson, **“Design and Selected Properties of PEM Mixtures Containing Crumb Rubber Modifier (CRM) in Dry Process,”** Presented at the *Transportation Research Board 94th Annual Meeting*, Washington, D.C, Jan. 11-15, 2015;
3. Zhaoxing Xie, Junan Shen, Matthew Earnest, Bo Li, and Mike Jackson, **“Dynamic Modulus (E^*) of Stone Matrix Asphalt with Crumb Rubber Modifier,”** Presented at the *Transportation Research Board 94th Annual Meeting*, Washington, D.C, Jan. 11-15, 2015;
4. Choubane, B., Holzschuher, C., Upshaw, P., Jackson, N.M., and Lee, H.S., **“PaveSuite: Transforming Pavement Data into Informed Decision Making,”** FHWA *Focus*, pp. 3-4, www.fhwa.dot.gov/infrastructure, October, 2011;
5. A. ElSafty, V. Vargas, N.M. Jackson, F. Barsoum, A. Abdel-Mohti, **“Investigating the Problem of Transverse Cracking of Bridge Decks”**, in B.H.V. Topping, Y. Tsompanakis, (Editors), *Proceedings of the Thirteenth International Conference on Civil, Structural and Environmental Engineering Computing*, Civil-Comp Press, Stirlingshire, UK, Paper 187, 2011. doi:10.4203/ccp.96.187;
6. Jackson, N.M., **“Pursue Perfection and Implement What We Understand Now,”** American Society for Testing and Materials (ASTM), *Kummer Lecture*, Presented at the ASTM Committee E17 meeting, Atlanta, GA December 8, 2009;
7. Jackson, N.M. and Schultz, S., **“Employing CFB Ash in Pavement Structure Applications,”** *Proceedings of the 2009 FES, Geotechnical and Materials Engineering Council, GMEC Conference*, Disney’s Yacht and Beach Club Resort, Orlando, FL, April 30 - May 1, 2009;
8. Jackson, N.M. and Schultz, S., **“Blended CFB Ash and Limestone Base Course,”** Florida Engineering Society Journal, ISSN 0015-4032, pp. 22-25, May, 2009;
9. Jackson, N.M. and Schultz, S., and Schopp, L., **“Blended CFB Ash and Limestone Base Course,”** *Proceedings of the World of Coal Ash, WOCA 09 Conference*, Lexington, Kentucky, May 4-7, 2009;

10. Jackson, N.M., “**Recommended Practice for Identifying Vibration Sensitive Work Zones in Florida Based on FWD Data,**” *Proceedings of the 2008 FES, Geotechnical and Materials Engineering Council, GMEC Conference*, The Hilton in the Walt Disney World Resort, Orlando, FL, April, 2008;
11. Jackson, N.M., Mack, R., and Schultz, S., “**Pavement Subgrade Stabilization and Construction using Bed and Fly Ash,**” *Proceedings of the World of Coal Ash (WOCA) Conference*, Covington, KY, May 7-10, 2007;
12. Braddock, B., Jackson, N.M., and Choubane, B., “**The University of North Florida’s Civil Engineering Program Aids the Florida Department of Transportation in Research and Development,**” *Florida Engineering Society Journal*, ISSN 0015-4032, pp. 20-21, September, 2005;
13. Jackson, N.M., Choubane, B., Holzschuher, C., and Gokhale, S., “**Measuring Pavement Friction Characteristics at Variable Speeds for Added Safety,**” Presented at the *ASTM International Symposium on Pavement Surface Condition/Performance Assessment: Reliability and Relevancy of Procedures and Technologies*, Washington, D.C., December 7, 2004;
14. Jackson, N.M., Best, F., and Pearson, J., “**Aggregate Requirements for RCC Pavements - A Case Study,**” *Proceedings of the 9th Annual Symposium of the International Center for Aggregates Research*, Austin, Texas, April 22-25, 2001;
15. Jackson, N.M., Oliver D.K., Justis, T.D., and Fuson, D.D., “**Evaluation of the Relative Field Permeability of Hot Mix Asphalt,**” Presented at the *Transportation Research Board, 80th Annual Meeting*, Washington, D.C., January 7-11, 2001;
16. Kiser, P.V., and Jackson, N.M., “**Evaluation of Aggregate Degradation Due to Laboratory Compaction and Ignition Oven Testing of HMA,**” *Proceedings of the 8th Annual Symposium of the International Center for Aggregates Research*, Denver, Colorado, April 12-14, 2000;
17. Jackson, N.M., and Czor, L.J., “**Comparison of 100-mm and 150-mm Diameter Specimens in the Superpave Gyrotory Compactor,**” Presented at the *Transportation Research Board 2000 Annual Meeting*, Washington, D.C., January 11, 2000;
18. Jackson, N.M. and Abusadah, N.H., “**Production of Fine-Grind Products by a Proprietary Colloidal Mill Process,**” *Proceedings of the 7th Annual Symposium of the International Center for Aggregates Research*, Austin, Texas, April 19-21, 1999;
19. Jackson, N.M., “**The ASCE Materials Division, a Tool for Expanding Our Audience Pool to Reach New Markets.**” *Proceedings of the 5th Annual Symposium of the International Center for Aggregates Research*, Austin, Texas, April 21-23, 1997;
20. Jackson, N.M., and Brown, R.H., “**Use of Higher Fines Contents in Portland Cement Concrete,**” *Proceedings of the 4th Annual Symposium of the Center for Aggregates Research*, Atlanta, Georgia, April 15-17, 1996;
21. Sayed, S., Pulsifer, J., and Jackson, N.M., “**Untreated Recycled Asphalt Pavement (UNRAP) - Are We Ready For It?**” *Proceedings of the 1994 Annual Meeting of the Florida Section of the American Society of Civil Engineers*, Fort Lauderdale, Florida, September 29-October 1, 1994; and
22. Jackson, N.M., and Hayden, M.L., “**Ultimate Capacity of Micro Piles.**” *Proceedings of the 1987 Annual Meeting of the Florida Section of the American Society of Civil Engineers*, Jacksonville, Florida, October, 1987.

RESEARCH REPORTS:

1. Kang, J., Jackson, M., Maldonado, G., Rogers, P., and Maghiar, M., **“Prefab Bridges for Georgia City and County Roads,”** Final Report, GDOT Research Project No. 14-10, Georgia Department of Transportation, December, 2015;
2. J. Lubecki, G. Maldonado, and M. Jackson, **“Study Abroad, Service Learning and Jump-Starting of Exchange Programs between Leading Universities of Southeast Mexico and Southeast Georgia,”** Final Report, GSU Contract #12088, October, 2015;
3. Jackson, N.M., and Sander, P.J., **“Development of a Hydroplane Prediction Model,”** Final Report, FDOT Contract #BDK82, Task Work Order #977-08, FDOT, State Research Office, Tallahassee, FL, August, 2013;
4. Jackson, N.M., Jackson G.R., Carlson, P., and Ye, F., **“Use of High Intensity Reflective Sheeting in-lieu of External Lighting of Overhead Roadway Signs,”** Final Report, FDOT Contract #BDK82, Task Work Order #977-07, FDOT, State Research Office, Tallahassee, FL, June, 2013;
5. El Safty, Adel and Jackson, N.M., **“Sealing of Cracks on Florida Bridge Decks with Steel Girders,”** Final Report, FDOT Contract #BDK82, Task Work Order #977-06, FDOT, State Research Office, Tallahassee, FL, May, 2012;
6. Jackson, N.M., **“Alternative Materials for FDOT Sign Structures - Phase I,”** Final Report, FDOT Contract #BDK82, Task Work Order #977-02, FDOT, State Research Office, Tallahassee, FL, May, 2012;
7. Jackson, N.M., **“Report of Mechanical Property Testing of Blends of JEA Buckman Street Sludge Cake with NSGS Bed Ash,”** Final Report, CDM, Jacksonville, FL, April 18, 2011;
8. Jackson, N.M., Choubane, B., and Holzschuher, C., **“Harmonization of Texture and Skid Resistance Measurements,”** Final Report, FDOT Contract No. BDH23, FDOT, State Research Office, Tallahassee, FL, September 30, 2008;
9. Jackson, N.M., Hammons, M.I., Walker, R., and Von Quintus, H., **“Use of Nondestructive Techniques to Estimate the Allowable Vibratory Compaction Level during Construction,”** Final Report, FDOT Contract No. BDB11, FDOT, State Research Office, Tallahassee, FL, March 31, 2007;
10. Jackson, N.M., **“Measuring Pavement Friction Characteristics at Variable Speeds for Added Safety,”** Final Report, FDOT Order No. DO-51684 (DO-2022), FDOT, State Research Office, Tallahassee, FL, July 31, 2005;
11. Malek, M., and Jackson, N.M., **“Preliminary Report of Balcony Concrete Distress,”** Stonewood Condominium Association, Cocoa Beach, FL, July 2, 2004;
12. Jackson, N.M., **“Evaluation of Variable Friction Properties of FDOT Friction Courses: Phase I,”** Final Report, FDOT Contract # BD-273, FDOT, State Materials Office, Gainesville, FL, November 15, 2003;
13. Jackson, N.M., Malley, S.W., and Whitten, B.N., **“Analysis of Flexible Pavement Performance Under Accelerated Loading at the National Center for Asphalt Technology Oval Test Track Facility - Phase I,”** Final Construction Report, TDOT Project # (TNSPR) RES1135, Contract # CUT181, Tennessee Department of Transportation, Nashville, TN, November, 2000;

14. Jackson, N.M., Wang, Z., and Reid, D.L., "**Network Level Decision Models for the TDOT Pavement Management System**," Interim Report, TDOT Project # (TNSPR) RES1143, Contract # CUT189, Tennessee Department of Transportation, Nashville, TN, January 21, 2000;
15. Jackson, N.M., and Fuson, D., "**Evaluation of the Relative Permeability of Superpave Mixes in Tennessee, Phase I**," Preliminary Report, TDOT Project # (TNSPR) RES1163, Contract # CUT209, Tennessee Department of Transportation, Nashville, TN, January 21, 2000;
16. Jackson, N.M., and Czor, L.J., "**Comparison of Volumetric Properties for 150 mm Versus 100 mm Diameter Gyrotory Compacted HMA Specimens**," Final Report, TDOT Project # (TNSPR) RES1141, Contract # CUT187, Tennessee Department of Transportation, Nashville, TN, August 31, 1999; and
17. Jackson, N.M., and Ownby, E.A., "**Evaluation of Laboratory Compaction of HMA**," Final Report, TDOT Project # (TNSPR) RES1121, Contract # CUT166, Tennessee Department of Transportation, Nashville, TN, May 31, 1998.

INDUSTRY EXPERIENCE:

Principal Engineer, Jackson Research Engineers, Inc., 2000-2017. Provided consulting services and delivered over \$3 Million in Civil Engineering and Construction Materials testing services including training, quality control, and research and development. Examples of projects include:

1. Buoyancy Control Recommendations for Norwesco 750, 1000, 1250, and 1500 Gallon Low Profile Septic Tanks;
2. Consulting services in review of drilled shaft foundation concrete placement for Alta Vista Solutions, Inc. and Caltrans prior to Final Acceptance of the new San Francisco-Oakland Bay Bridge;
3. Development of "Precision Statements for the Surface Resistivity of Water Cured Concrete Cylinders in the Laboratory," a multi-state collaborative evaluation sponsored by FDOT as part of the Pooled Fund Program and AASHTO, Technology Implementation Group (TIG);
4. Development and Delivery of the "Associate Concrete Transportation Construction Inspector (Associate CTCI)" Certification Program for ACI and FDOT, "Technology Transfer of Best Practices for Concrete and Concrete Pavements;"
5. Development and Implementation of Structural Concrete Performance Specifications for FDOT;
- 6 Field evaluation of the Beneficial Use of JEA's CFB Ash in FDOT Base Course and Subgrade Stabilization Applications;
- 7 Field evaluation of the relationship between automobile "Fuel Consumption vs. Pavement Smoothness," conducted for the Asphalt Pavement Alliance (APA);
- 8 Developed and delivered a "Soils and Aggregates Technician Qualification Program (TQP)" for the Tennessee Department of Transportation (TDOT), delivered to approximately 500 TDOT soils and aggregates Inspectors and Engineers; and
- 9 Various Expert Witness Engagements throughout the US.

Construction Materials Engineer, Vulcan Materials Company, Birmingham, Alabama, 1995-1996. Provided Heavy Civil Construction Materials testing services including training, quality control, and research and development activities in an effort to promote and expand the use of aggregates, concrete, and asphalt in construction. Specific research projects included:

1. Characterization of competing crushed stone base materials found in the South Texas market. This research included the construction of roadway test sections and correlation with Triaxial Compression, CBR, and Resilient Modulus test results.
2. Superpave Mix Design Evaluation of Uvalde, Texas Limestone Rock Asphalt (LRA) Mixes.
3. Laboratory Evaluation of the British Polish Value and Soundness properties of construction aggregates produced from various sources in the San Antonio, Texas market area.

Materials Engineer, Florida Department of Transportation, DeLand, Florida, 1993-1994. Assisted in the coordination and management of construction materials quality control testing, inspection, and research policies and programs for the Fifth District of the Florida Department of Transportation. Assisted in the management of a staff of over 50 engineers and technicians responsible for the inspection, sampling, and testing of construction materials, as part of a \$225 Million annual District Construction Program.

Project Manager, Geotechnical and Environmental Consultants, Inc., Orlando, Florida, 1992-1993. Provided project management and geotechnical engineering services for a variety of Heavy Civil roadway and bridge construction projects throughout Florida, including:

1. S.R. 417, Seminole Expressway, Section 2; approximately 2.7 miles of expressway right-of-way, from Old Lake Mary Road to Upsala Road in Seminole County, Florida.
2. Disney Development Office Buildings, Phases I and II; nine, six, and four story office buildings with associated parking and drainage facilities in Osceola County, Florida.
3. S.R. 686 Roadway Widening Project; approximately 2 miles of roadway widening and drainage improvements to the existing four-lane roadway in Pinellas County, Florida.
4. S.R. 530/U.S. 192 Roadway and Bridge Improvements Project; roadway widening, bridge replacement, and drainage improvements to the existing facility extending from the Orange County line to Reedy Creek in Osceola County, Florida.
5. U.S. 41 Roadway and Bridge Improvements Project; roadway improvements and bridge widening at the Gordon River in Naples, Florida.

Project Engineer, Dames & Moore, Portland, Oregon, 1989-1991. Provided project engineering and management services for various geotechnical construction projects throughout the northwest, including:

1. North Pacific Paper Corporation, Longview, Washington; site surcharge and auger-cast pile foundation design and installation for the No. 3 paper machine addition.
2. Lincoln Center Office Buildings, Phase IV; foundation design and inspection for a 7-story office building addition for Trammell Crow Company, Tigard, Oregon.
3. The Oregonian warehouse and tunnel addition, Portland, Oregon; geotechnical investigation, evaluation, and construction inspection of earthwork, pile placement, and extensive excavation and shoring in downtown Portland.

Staff Engineer, Soil & Material Engineers, Inc., Orlando, Florida, 1988-1989. Performed geotechnical engineering and construction materials quality control testing services for a variety of construction projects in the southeast, including:

1. Subsurface exploration, geotechnical engineering evaluation, and monitoring of pre-cast concrete pile foundation installation for the Imperial Plaza at Corplex, a 5-story office complex in Brevard County, Florida.
2. Final subsurface exploration and geotechnical engineering evaluation for the Fairfield Inn, a 3-story hotel with associated site improvements in Winter Park, Florida.
3. Subsurface exploration and geotechnical engineering services for several additions to the NAVFAC Fleet Diving Support Complex in Panama City, Florida.

Engineering Technician, Jammal & Associates, Tampa, Florida, 1986 - 1987. Performed standard geotechnical and construction materials laboratory and field tests on soils, concrete and asphalt, and conducted on-site inspections for general compliance with project plans and specifications, including the terminal expansion of the Tampa International Airport.

Construction Estimator (Co-op student), McCarthy, Inc., Tampa, Florida, 1985 - 1986.

Surveyor, Clarson & Associates, Jacksonville, Florida, 1983 – 1984.

AWARDS AND SPECIAL RECOGNITION:

1. **Chancellor's Outstanding Service Excellence in Leadership Award**, University System of Georgia, Service Excellence Program, October 21, 2015.
2. **Award of Excellence** by the North Florida Office of Research and Sponsored Programs for Obtaining Research Funding of \$250,000 or more, April 11, 2012.
3. Awarded **Certificate of Appreciation** for recognition of Ten (10) Years of Service to North Florida, January 31, 2012.
4. Awarded **Certificate of Appreciation** for Service as President of the American Concrete Institute (ACI), Florida First Coast Chapter, January, 2011.
5. **Award of Excellence** by the North Florida Office of Research and Sponsored Programs for Obtaining Research Funding of \$250,000 or more, April 23, 2010.
6. **Award of Special Recognition** by the American Society for Testing and Materials (ASTM), for Presenting the **Kummer Lecture**, to the ASTM Committee E17 meeting, Atlanta, GA, December 8, 2009.
7. Awarded **Certificate of Appreciation for Five Consecutive Years of External Funding** at North Florida, Office of Research and Sponsored Programs, 2001-2006.
8. Awarded the **2005 President's Award**, American Society of Highway Engineers, Northeast Florida Section, June 9, 2005.
9. Awarded a \$2000. Fellowship to attend the **ASCE, ExCEED Teaching Workshop**, July 8-13, 2001, Fayetteville, Arkansas, also invited to return as Mentor, Summer, 2002.
10. Awarded the University of Tennessee, Department of Civil and Environmental Engineering, **Research Recognition Award**, 2000.
11. Awarded Certificate of Appreciation for **Distinguished Service and Leadership** as the News Correspondent for the ASCE Materials Engineering Division, 1997.