

Steven Jones

Summary

Education

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| • University of Virginia | PhD, Civil Engineering (Transportation) | 2001 |
| • Auburn University | Masters of Science, Civil Engineering (Transportation) | 1994 |
| • Auburn University | Bachelor of Civil Engineering | 1992 |

Experience

- Professor, Dept. of Civil, Construction & Environmental Engineering (CCE), University of Alabama, Tuscaloosa, AL (Aug 17 – present)
- Associate Professor, Dept. of Civil, Construction & Environmental Engineering (CCE), University of Alabama, Tuscaloosa, AL (Jan 10 – Aug 17)
- Associate Director, International Business Manager, Waterman Moylan, Dublin, IE (June 07 – Jan 10)
- Adjunct Lecturer, School of Civil Engineering, University College Dublin, IE (Jan 08 – Dec 09)
- Assistant Professor, CCE, University of Alabama, Tuscaloosa, AL (Aug 05 – June 07)
- Managing Director, Community Technical Resources, Inc., Birmingham, AL (Aug 03 – present)
- Research Assistant Professor, Dept. of Civil & Environmental Engineering, University of Alabama at Birmingham (UAB), Birmingham, AL (Aug 00 – Aug 05)
- Project Manager (Traffic Engineering), Sain Associates, Birmingham, AL, USA (Aug 95 – Aug 00)
- Research Assistant, Virginia Transportation Research Council Charlottesville, VA, USA (Jul 94 – Jul 95)
- Traffic Engineer, AECOM, Fairfax, VA, USA (Aug 93 – Jul 94)

Research & Scholarship

Journal Articles (accepted & published)

1. *Lidbe, A., Tedla, E. Hainen, A., **Jones, S.** 2018. Assessment for Implementing Adaptive Traffic Signal Control: A Case Study. Accepted by the *ASCE Journal of Transportation Engineering* (in press).
2. *Adanu, K., Penmetsa, P., **Jones, S.**, Smith, R. 2018. Gendered Analysis of Fatal Crashes Among Young Drivers in Alabama, USA. Accepted by *Safety*, 4(3), 29.
3. *Connell, E., **Jones, S.**, Williams, J. 2018. Human Trafficking and the Transportation Profession: How can we be Part of the Solution. *ITE Journal*, 88(7), 45-49.
4. *Adanu, K., Hainen, A., **Jones, S.** 2018. Latent class analysis of factors that influence weekday and weekend single-vehicle crash severities. *Accident Analysis and Prevention*, 113, 187-192.
5. Lu, X., **Jones, S.**, Li, L. 2018. Promoting Economically Equitable Rural Road Development - Case Study among Chinese Provinces. *Transportation in Developing Economies*, 4(1).
6. *Adanu, K. and **Jones, S.** 2017. Effect of human-centered factors on crash injury-severities. *Journal of Advanced Transportation*, ID 1208170, 1-11.
7. *Adanu, K., Smith, R., Powell, L., **Jones, S.** 2017. Multilevel analysis of the role of human factors in sub-regional disparities in crash outcomes. *Accident Analysis and Prevention*, (109), 10-17.

* denotes student co-author

8. *Lidbe, A., *Tedla, E., Hainen, A., **Jones, S.** 2017. Comparative Assessment of Arterial Operations under Conventional Time-of-Day and Adaptive Traffic Signal Control. *Advances in Transportation Studies*, 42, 5-22.
9. *Li, W., Xu, R., **Jones, S.** 2017. Coordination of Last Train Transfers Using Automated Fare Collection (AFC) System Data. *Journal of Advanced Transportation*, 50(8), 2209-2225.
10. Doustmohammadi, M., Anderson, M., Kesaveraddy, S., **Jones, S.** 2017. Examining Model Accuracy: How Well did We do in the 1990's Predicting 2015. *International Journal of Traffic and Transportation Engineering*, 6(1), 15-21.
11. *Lidbe, A., Hainen, A. **Jones, S.** 2017. Comparative study of Simulated Annealing and Genetic Algorithm for Calibration of Microsimulation Model. *Simulation*, 93(1), 12-33.
12. *Lidbe, A., Hainen, A., Telda, E., **Jones, S.** 2017. Analytical Techniques for Evaluating the Implementation of Adaptive Traffic Signal Control Systems. *ASCE Journal of Transportation Engineering*, 143(5).
13. **Jones, S.**, Walsh, J., Appiah-Opoku, S. 2016. Rural Transport Health and Safety in Sub-Saharan Africa Research Needs – A Snapshot of Expert Opinion from an Online Survey. *Development Southern Africa*, 677-702.
14. *Simandl, J., Graettinger, A., Smith, R., **Jones, S.**, Barnett, T. Making Use of Big Data to Evaluate the Effectiveness of Selective Law Enforcement in Reducing Crashes. *Transportation Research Record*, No. 2584, 8-15.
15. **Jones, S.**, *Tefe, M., *Zephaniah, S., *Tedla, E., Appiah-Opoku, S., Walsh, J. 2016. Public Transport and Health Outcomes in Rural Sub-Saharan Africa – A Synthesis of Literature and Professional Opinion. *Journal of Transportation and Health*, 3(2) 211-19.
16. *Li, P., **Jones, S.** 2016. Vehicle restrictions and CO₂ emissions in Beijing – A simple projection using available data. *Transportation Research Part D*, 41, 467-476.
17. *Mehta, G., *Li, J., *Fields, R., Lou, Y., **Jones, S.** 2015. Safety Performance Function Development for Analysis for Bridges. *ASCE Journal of Transportation Engineering* 141(8).
18. Anderson, M., Khan, T., Sarde, K., **Jones, S.**, *Zephaniah, S. 2015. Validating Simulation Models of Diverging Diamond Interchange for Alabama. *International Journal for Modelling and Simulation* 35(1), 1-6.
19. Appiah-Opoku, S., **Jones, S.**, *Tefe, M. 2015. Urban Transport Projects Screening in Ghana: A Theoretical Approach to a More Inclusive Practice. *The International Journal of Intelligent Transportation and Urban Planning* 3(2), 47-56.
20. **Jones, S.**, *Tefe, M., Appiah-Opoku, S. 2014. Incorporating Stakeholder Input into Transport Project Selection - A Step Towards Urban Prosperity in Developing Countries. *Habitat International*, (45), 20-28.
21. *Majeed, A., *Zephaniah, S., *Mehta, G., **Jones, S.** 2014. Field-Based Saturation Headway Model for Planning Level Applications. *International Journal of Traffic and Transportation Engineering*, 3(5), 207-215.
22. *Gurupackiam, S., Khan, T., Anderson, M., **Jones, S.** 2014. Snapshot of Lane-specific Traffic Operations under Recurrent and Non-recurrent Congestion. *International Journal of Traffic and Transportation Engineering*, 3(4), 199-205.
23. Islam, S., and **Jones, S.** 2014. Modeling Pedestrian-injury Severity Resulting from Pedestrian At-fault Motor Vehicle Accidents in Alabama: Some Additional Evidence. *Accident Analysis and Prevention* 73, 267-276.

* denotes student co-author

24. *Gurupackiam, S., Turner, D. Lindly, J., **Jones, S.**, *Tedla, E. 2014. Reduction of Capacity and Projected Costs Associated with Seat Belt Installation on School Buses. *Transportation Research Part A*, 76, 59-68.
25. *Tefe, M. **Jones, S.**, Appiah-Opoku, S. 2014. System User Involvement In Sustainable Urban Transport Decision-Making. *Journal of Emerging Trends in Engineering and Applied Sciences*, 5(8), 145-150.
26. Richardson, J., **Jones, S.** *Brown, A, O'Brien, E., Hajialzadeh, D. 2014. Bridge-Based Weigh-in-Motion an Overweight Vehicle Enforcement Tool. *International Journal of Heavy Vehicle Systems*, 21(2), 83-104.
27. Islam, S., and **Jones, S.**, *Dye, D., 2014. Comprehensive Analysis of single- and multi- vehicle large truck at-fault crashes on rural and urban roadways from Alabama. *Accident Analysis and Prevention*, 67, 148-158.
28. *Wang, P., *Gurupackiam, S., **Jones, S.** 2013. A Novel Cell Transmission Model Based Simulations of Left Turn Blockages inside Intersections. *Transportation Research Record*, No. 2390, 60-67.
29. **Jones, S.**, *Gurupackiam, S., and Walsh, J. 2013. Factors Influencing the Severity of Crashes Caused by Motorcyclists: Analysis of Data from Alabama. *ASCE Journal of Transportation Engineering* 139(9), 949-956.
30. *Wang, P., **Jones, S.**, Yang, Q., *Gurupackiam, S. 2013. Sensitivity Analysis of Key Input Parameters in Conditional Cell Transmission Model for Oversaturated Arterials. *Journal of Central South University*, 20(7), 1772-1780.
31. *Wang, P., **Jones, S.**, Yang, Q., *Gurupackiam, S. 2013. Cell Transmission Model Based Traffic Signal Timing in Oversaturated Conditions. *Journal of Central South University*. Volume 20, No. 4, 1129-1136.
32. **Jones, S.**, *Tefe, M., Appiah-Opoku, S. 2013. Proposed Framework for Sustainability Screening of Urban Transport Projects in Developing Countries. *Transportation Research Part A*, 49, 21-34.
33. *Gurupackiam, S. and **Jones, S.** 2012. Empirical Study of Lane Changing and Control Adherence in Urban Street under Recurrent and Non-Recurrent Congestion. *International Journal for Traffic and Transport Engineering*, December 2012, Vol.2, (4). 306-422.
34. *Gurupackiam, S., **Jones, S.** 2012. An Investigation of Lane Changing Parameters on an Urban Arterial for Different Traffic Congestion Levels. *Advanced Studies in Transportation*, 31-45.
35. **Jones, S.** Lindly, J. and *Wilkes, M. 2012. Review of Escort Car Certification Programs. *ITE Journal*, 82(9), 10-13.
36. *Gurupackiam, S. and **Jones, S.**, *Wang, P. 2012. Sensitivity Analysis of Key Input Parameters in Microscopic Simulation of Under Saturated and Saturated Traffic Signals using SimTraffic and CORSIM. *Journal of Civil Engineering and Architecture*, 6(6), 651-664.
37. **Jones, S.**, *Gurupackiam, S. 2012. Who, What, When and Where of Motorcycle Crashes in Alabama. *International Journal of Motorcycle Studies*. 8(1).
38. *Wang, P., **Jones, S.**, Yang, Q. 2012. A Novel Conditional Cell transmission Model for Oversaturated Arterials. *Journal of Central South University*. 19(5), 1466-1474.
39. **Jones, S.**, Lindly, J., Johnson, P. 2008. A Snapshot of Graduate Student Seminar Practices. *ASCE Journal of Professional Issues in Engineering Education & Practice*, 134(2), 193-196.
40. **Jones, S.**, Sisiopiku, V. 2007. Safety at High-speed Signalized Intersections: Synthesis. *ASCE Journal of Transportation Engineering*, 133(9), 523-528.
41. Nagendera, S., Venugopal, K., **Jones, S.** 2007. Assessment of Air Quality near Intersections in Bangalore City using Air Quality Indices. *Transportation Research Part D*. 12(3), 167-176.

* denotes student co-author

42. *Hammond, D., Lalor, M., **Jones, S.** 2007. In-vehicle Measurement of Particle Number Concentrations on School Buses Equipped with Diesel Retrofits." *Journal of Water, Air and Soil Pollution*, 179, 217-225.
43. *Hammond, D., **Jones, S.**, Lalor, M. 2006. In-vehicle Measurement of Ultrafine Particles on Compressed Natural Gas, Conventional Diesel, Oxidation-Catalyst Diesel Heavy-Duty Transit Buses. *Environmental Monitoring and Assessment*. 125(1-3), 239-246.
44. Anderson, M., Abdullah, Y., Gholston, S., **Jones, S.** 2006. Development of a methodology to predict through trip rates for small communities. *ASCE Journal of Urban Planning and Development*. 132(2), 112-114.
45. **Jones, S.**, Turner, D. 2004. Identification of Common Issues Facing Intermodal Transportation Planning. *ITE Journal*, 74(11), 30-39.
46. *Siswobusono, P., Chen, S., **Jones, S.**, Callahan, D., Grimes, T., Delatte, N. 2004. Serviceability-based Dynamic Load Rating of a LT20 Bridge. *Experimental Techniques*, 28(6), 33-36.

Refereed Conference Papers (accepted & published)

1. *Zephaniah, S. Hainen, A., **Jones, S.** "Mixed Binary Logit Analysis of Motorcycle Helmet Usage: Observations in Nairobi, Kenya." *96th Transportation Research Board (TRB) Annual Meeting*, Washington DC, January 10-14, 2016.
2. *Lidbe, A., Hainen, A., **Jones, S.** "Comparative study of Simulated Annealing and Genetic Algorithm for Calibration of VISSIM Microsimulation Model." *96th TRB Annual Meeting*, DC, January 10-14, 2016.
3. *Li, Wei, **Jones, S.** "Coordination of Last Trains for Metro Networks with AFC System Data: A Case Study of Shanghai Metro Network." *96th TRB Annual Meeting*, Washington DC, January 10-14, 2016.
4. *Ozelim, L., *Zephaniah, S., *Adanu, K., Smith, R., **Jones, S.** "Factors in Differential Safety Performance Across Different Income Levels." *Road Safety on Five Continents*, Rio, Brazil, May 17-19, 2016.
5. *Ozelim, L., *Zephaniah, S., *Adanu, K., Smith, R., **Jones, S.** "Using GIS to Map the Relationship Between Socio-Demographic Characteristics and Crash Severities In Alabama." *96th TRB Annual Meeting*, Washington DC, January 10-14, 2016.
6. *Zephaniah, S., *Tefe, M. **Jones, S.** Binary Logit Analysis and Insights on Helmet Usage by Motorcyclists – Case Study of Accra, Ghana and Nairobi, Kenya. *Proceedings from the 7th African Transportation Technology Transfer Conference*, Victoria Falls, Zimbabwe, May 11 – 15, 2015.
7. **Jones, S.** *Tefe, M., *Zephaniah, S., *Tedla, E., Appiah-Opoku, S., Walsh, J. Synthesis of Rural Transport Safety Issues in Sub-Saharan Africa–Input from Local Experts. *Proceedings from the 7th African Transportation Technology Transfer Conference*, Victoria Falls, Zimbabwe, May 11 – 15, 2015.
8. **Jones, S.**, *Majeed, A., *Tefe, M., Appiah-Opoku, S. Potential Application of Indigenous Knowledge Within the Context Urban Transport Planning and Development in Developing Countries. *Development, Urban Space, and Human Rights in Africa. 2015 Africa Conference at The University of Texas at Austin*, Austin, Texas, April 3-5, 2015.
9. *Adanu, E., **Jones, S.** Hypomobility – An Epidemiological Analogue for Viewing Urban Transport Conditions in Developing Countries. *Development, Urban Space, and Human Rights in Africa. 2015 Africa Conference at The University of Texas at Austin*, Austin, Texas, April 3-5, 2015.
10. Lou, Y., *Mehta, G., **Jones, S.** 2015. A Bayesian Analysis of Crash Severities with Multivariate Conway-Maxwell Poisson Distribution. *Proceedings from the 95th Transportation Research Board Annual Meeting*, Washington DC, January 11-15, 2015.

* denotes student co-author

11. Islam, S. and **Jones, S.** "Analysis of Pedestrian At-fault Accidents: A Step Towards Better Pedestrian Education and Campaign." *Proceedings from 2014 Transportation & Development Institute Congress*, ASCE, Transportation & Development Institute, Orlando, FL, June 8 – 11, 2014.
12. *Li, J., *Mehta, G., **Jones, S.** Analysis on Rail Highway At-Grade Crossing in Alabama. *Proceedings of the 2014 Global Level Crossing Symposium*, Urbana, IL, 4-8 August 2014.
13. **Jones, S.**, and *Tefe, M. "Assessing the Sustainability of Public Transport in A Developing Country – Case Study of Accra Ghana." *Proceedings from the 3rd Annual International Conference on Urban Public Transportation Systems*. ASCE, Transportation & Development Institute, Paris, France, November 17 – 20, November, 2013.
14. *Green, F., Lou, Y., and **Jones, S.** "Investment Practices of Transit Service Providers in Land Development." *Proceedings from the 3rd Annual International Conference on Urban Public Transportation Systems*. ASCE, Transportation & Development Institute, Paris, France, November 17 – 20, November, 2013.
15. **Jones, S.**, *Tefe, M. and Appiah-Opoku, S., "Development of a Localized Sustainability Score for Screening Urban Transport Projects in Developing Countries: A Case Study of Accra, Ghana." *The Role of Urban Mobility in (Re)Shaping Cities*. CODATU XV. Addis Abba, Ethiopia, October 22- 26, 2012.
16. **Jones, S.** and *Gurupackiam, S. "Who, What, When and Where of Motorcycle Crashes in Alabama" *Proceedings from the 91st TRB Annual Meeting*, Washington DC, January 23-27, 2012.
17. **Jones, S.** Lindly, J. and *Wilkes, M., "Review of Escort Car Certification Programs." *Proceedings from the 90th TRB Annual Meeting*, Washington DC, January 23-27, 2011.
18. *Gurupackiam, S. and **Jones, S.**, Fonseca, D. "Investigating Initialization Times, Repetitions, and MOE Variability in Simulation of Under Saturated and Saturated Traffic Signals." *Procedia Social and Behavioral Sciences, Volume 16*, pp. 470 - 480, - 6th International Symposium on Highway Capacity and Quality of Service, July 28 – July 2, 2011, Stockholm, Sweden.
19. *Gurupackiam, S. and **Jones, S.** "Empirical Study of Lane Changing in Urban Streets under Varying Traffic Conditions." *Procedia Social and Behavioral Sciences, Volume 16*, pp. 259 – 269, 6th Intl. Symposium on Highway Capacity and Quality of Service, July 28 – July 2, 2011, Stockholm, Sweden.
20. *Tefe, M., **Jones, S.**, and Appiah-Opoku, S. "Application of Multi-Criteria Decision Making to Sustainable Urban Transportation Planning in Developing Countries: A Case study of Accra, Ghana." *Proceedings from the 1st Annual Postgraduate Research Conference on the Built Environment*, Kumasi, Ghana, June 3 – 4, 2010.
21. *Wang, L., **Jones, S.**, and D S Turner, "Genetic Algorithms Approach for Traffic Signal Timing under Oversaturated Conditions," Annual Transportation Research Forum 2008, Journal of the Transportation Research Forum, Transportation Research Forum, Fargo, ND, March 2008.
22. Anderson, M., Gholston, S., **Jones, S.** "A Small Urban Community Application Of An Internet-based Tool To Conduct A Non-traditional Transportation Survey." *Proceedings from the 86th TRB Annual Meeting*, Washington DC, January 21-25, 2007.
23. Anderson, M., **Jones, S.**, Ostaseski, S. and Severin, L. "GIS Forecast of Potential Interchange Land-use Patterns." *Proceedings from the 86th TRB Annual Meeting*, Washington DC, January 21-25, 2007.
24. Turner, D., **Jones, S.**, and Wood, B. "Traffic safety analysis of school buses in Alabama." *Urban Transport XI: Urban Transport and the Environment in the 21st Century*, Advances in Transport, Vol 18 (edited by C. A. Brebbia and L. Wadhwa). WIT, Southampton, UK, pp. 239-248. 2005.
25. **Jones, S.**, Cooper, D., Keely, D. and Gawalpanchi, S. "Development of an Alabama-specific CO Screening Model." *Proceedings from the 84th TRB Annual Meeting*, Wash. DC, January 9-13, 2005.
26. *Hammond, D., Lator, M. and **Jones, S.** "On-Board Measurement of Particulates on School Buses with Diesel Bus Retrofits." *Proceedings from the 84th TRB Annual Meeting*, Wash. DC, January 9-13, 2005.

* denotes student co-author

Refereed Papers in Progress (under review/in preparation)

1. **Jones, S.**, Odero, K., Adanu, K. What can roadway crashes in Namibia tell us about development needs in Sub-Saharan Africa? Submitted to *Development Southern Africa* (under review).
2. Zephaniah, S., **Jones, S.**, Smith, R., Weber, J. Submitted to Spatial Dependence among Socioeconomic Attributes in the Analysis of Crashes Attributable to Human Factors. *Analytic Methods in Accident Research* (under review).
3. Lu, X., **Jones, S.**, Li, L. Balancing Rural Road Infrastructure and Socioeconomic Development: Application of the Coupling Coordinated Degree. Submitted to the *Socio-Economic Planning Sciences* (under review).
4. *Adanu, K., **Jones, S.**, Odero, K., *Riehle, I. Characterization of factors contributing to road crashes in Namibia among functionally classified transport modes using Latent Class Analysis. Submitted to *Safety Science* (under review).
5. *Lidbe, A., **Jones, S.** Hainen, A. Insights Factors Contributing to Fatal Crashes across India Using Readily Available Data. To be submitted to the *Sustainable Cities and Society* (in preparation)
6. **Jones, S.**, Walsh, J. Peace, Transport and Understanding – On the Role of Transport in Fragile States. To be submitted to the *Journal of Peacebuilding and Development* (in preparation).

Conference Papers (accepted & published)

1. Appiah-Opoku, S. (speaker), **Jones, S.**, Tefe, M. "Transport and Road Safety in Rural Africa: A Case Study." *American Association of Geographers Annual Meeting*, March 29 – April 2, 2016, San Francisco, CA.
2. *Wang, L. (speaker), **Jones, S.** and Turner, D. "Cell Transmission Model Based Traffic Signal Timing in Oversaturated Conditions" *Student Research in Transportation Operations and Traffic Control* session, Transportation Research Board (TRB) Annual Meeting, January 11, 2009.
3. Robinson, C*. (speaker), **Jones, S.**, Anderson, M. and Sisiopiku, V. "Transportation Project Selection and Prioritization Methodologies For Small and Medium Sized Planning Agencies." 86th Transportation Research Board Annual Meeting, Washington DC, January 21-25, 2007.
4. *Schif, D. (speaker) and **Jones, S.** "Importance of Modeling Ozone Formation Attributable to Rural Interstate Traffic." Presented at the 10th *National Conference on Transportation Planning for Small and Medium-Sized Communities sponsored by the Transportation Research Board*, Nashville, TN., September 2006.
5. Anderson, M. (speaker), Ortega, J., Gholston, S., **Jones, S.**, "Development and Analysis of an Internet-Based Travel Survey," *Proceedings of the 9th International Conference on Applications of Advanced Technology in Transportation*, Chicago, IL. pg. 671-676. August 2006.
6. **Jones, S.**, Anderson, M., Ostaseski, S., Addy, S., And Lewandoski, M., "Corridor X Access Management and Development Plan," 7th *Access Management Conference Proceedings*, Park City, UT, Aug 13 – 16, 2006.
7. *Sharma, K., **Jones, S.**, Anderson, M., and Ostaseski, S. "Simulation of Access Management Treatments near Interstate Interchange," 7th *Access Management Conference Proceedings*, Park City, UT, Aug 13 – 16, 2006.
8. Parker, N. (speaker), Andreopoulos, Y., Tomkiewicz, M., Kawaguchi, A., **Jones, S.**, and Denisov, D. "Hybrid-Electric Transit Buses: Challenges and Implications For Full Implementation." Presented at the XIII Pan-American Conference of Traffic and Transportation Engineering (Panam XIII), Rensselaer Polytechnic Institute, Troy NY, September 26-29, 2004.

* denotes student co-author

9. Sullivan, A., **Jones, S.**, and Anderson, M. *Comparison of Three Traffic Simulation Packages*, Compendium of Papers from the Institute of Transportation Engineers Annual Meeting, Orlando, FL, Aug 1-4, 2004.
10. Sisiopiku, V., *Patharkar, S, and **Jones S.** *Using CORSIM for Emergency Response Planning*, Institute of Transportation Engineers Annual Meeting, Orlando, FL, Aug 1-4, 2004.
11. Cooper, D. (speaker), Keely, D., Gawalpanchi, S. and **Jones, S.** *A CO Screening Model for Alabama*. Compendium of Papers from the 97th Annual Conference of the Air & Waste Management Association, Indianapolis, IN, June 22-25, 2004.
12. Chen, S. (speaker), Callahan, D., **Jones, S.**, Zheng, L., Biswas, P., Siswobusono, P., El Yamak, B., Malpekar, A. and Lokanath, R. "Design of a Remote Monitoring Technique of Bridge Integrity Using Wireless Drive-By Network" Proceedings, *Structural Materials Conference V – An NDT Conference*, ASNT, Buffalo, NY, 2004.
13. Sisiopiku, V., Sullivan A., **Jones S.** and Patharkar, S. *Traffic Simulation Modeling for Emergency Preparedness Planning*, ITS Safety and Security, Conference, Miami, FL, March 24-25, 2004.
14. *Siswobusono, P. (speaker), Chen, S.E., Zheng, L., El Yamak, B., **Jones, S.** and Callahan, D. "Dynamic Load rating of Rural Bridges," proceedings, 22nd International Modal Analysis Conference, Sponsored by SEM, Jan 26-29, Dearborn, MI, 2004.
15. Chen, S.E. (speaker), Zheng, L., Grimes, T., **Jones, S.**, and Callahan, D. "Modal validation and load rating of highway bridges using ambient traffic loads - Preliminary results", Southeastern Local Roads Conference, Asheville, NC, 2003.
16. Cooper, D. (speaker), Keely, D., and **Jones, S.** *Alabama MOBILE6 - A Customized Windows Interface*. Presented at the 96th Annual Conference of the Air & Waste Management Association, San Diego, CA, June 22-26, 2003
17. **Jones, S.** and *Thompson, M. *State of the Practice for Displaying Non-traffic Related Messages on Dynamic Message Signs*. Compendium of Papers from the ITE Spring Conference, March 2002.
18. **Jones, S.** and Cottrell, B. *Assessment of Advanced Warning Sign for Flagging Operations*. Compendium of Papers from the Annual ITE Spring Conference in Orlando, FL. Transportation in the 21st Century. March 1999.

Books, Manuals, Chapters, Proceedings (published)

1. **Jones, S.**, *Majeed, A. 2015. *Roundabout Planning, Design, Operations Manual*. ALDOT.
2. Sullivan, A. **Jones, S.** 2014. *Traffic Signal Design Manual and Timing Guide 2nd Edition*. ALDOT.
3. **Jones, S.** (Editor). 2014. *Proceedings from the 3rd Annual International Conference on Urban Public Transportation Systems*. ASCE, Transportation & Development Institute, Paris, Nov. 17-20, 2013.
4. **Jones, S.** Meads, J., Skipper, D. 2014. *Access Design and Management Manual*. ALDOT.
5. **Jones, S.**, Tedla, E., Lindly, J. 2014. *Red-Light Running Camera Implementation Guide*. ALDOT.
6. Sullivan, A. **Jones, S.** 2007. *Traffic Signal Design Manual and Timing Guide 1st Edition* ALDOT.

Invited Lectures/Presentations

- *Human-Centered Traffic Safety Analysis*. International Road Federation, 2nd Africa Regional Congress, Windhoek, Namibia, 11 – 13 July 2017.
- *Human-Centered Traffic Safety Analysis*. Transportation Working Group, Mississippi State University, Starkville, MS, USA, 9 May 2017.

* denotes student co-author

- *Transport and Human Development – A World of Research Opportunity*. Namibian University of Science and Technology, Windhoek, Namibia, 16 November 2016.
- *New Approaches to Transport Safety and Mobility*. 3rd International Conference on Transportation in Africa, Accra, Ghana, 26 – 28 October 2016.
- *Transportation Research in Developing Countries – Opportunities for Collaboration*. Mid-Atlantic Transportation Sustainability Center, Charlottesville, Virginia, USA, 18 October 2015.
- *Transportation Research – A World of Opportunity*. Tongji University, Shanghai, China, 27 Oct, 2014
- *Assessing the Nexus of Urban Transport and Quality of Life*. Cities Prosperity Index Expert Group Meeting, Middle East Regional Centre for Best Practices and Leadership Programme, UN-Habitat, Tehran, Iran, 10 – 11 May 2013.
- *Transportation Research Needs and Opportunities in Developing Countries*. Addis Ababa University, Addis Ababa, Ethiopia, 20 October 2012.
- Keynote Speaker at the 1st Annual Postgraduate Research Conference on the Built Environment, Kwame Nkrumah University of Science & Technology, Kumasi, Ghana, 3 – 4 June 2010.

Sample Research Funding

Transportation Operations & Safety

- Development of the Alabama Department of Transportation Traffic Simulation Manual. (PI). Funded by ALDOT (\$141k, 2016 - current).
- Geodemographic Analyses of Alabama Crashes, (PI). Southeastern Transportation Center (\$42k, 2016 - current).
- An Evidence-based Analysis of Safety Performance Function Development and Calibration. (PI). Southeastern Transportation Center (\$45k, 2015 - current).
- Evaluation of the Alabama Ticketing Aggressive Cars and Trucks (TACT) Program FY14. Funded by the Alabama Law Enforcement Agency (ALEA) (\$31k, 2015).
- Development of Crash Modifications Factors for DOT Funded Selective Enforcement. (Co-PI). Funded by the ALDOT (\$141k, 2014 - 2016).
- Rural Transport and Health Outcomes in Sub-Saharan Africa. (PI). Funded by the UK Department for International Development, African Community Access Programme (\$38k, 2014).
- Development of the Alabama Department of Transportation Strategic Highway Safety Plan. (PI). Funded by the ALDOT (\$350k, 2014 - current).
- Evaluation of the TACT Program FY13. Funded by ALEA (\$17k, 2014).
- Operational Analysis of Diverging Diamond Interchanges. (PI). Funded by the University of Alabama at Huntsville as a subcontract to ALDOT (\$56k, 2013 - 2015).
- Exploration of Socio-Demographic Characteristics and Culture as Factors in Differential Safety Performance across Geography. (PI). Southeastern Transportation Center (\$25k, 2013 - 2015).
- Development of the Alabama Department of Transportation Roundabout Design and Operations Manual. (PI). Funded by ALDOT (\$307k, 2013 - 2015).
- Evaluation of the (TACT) Program FY12. Funded by ALEA (\$33k, 2013).
- Rail Highway At-Grade Crossing Prioritization and Ranking Program Analysis. (PI). Funded by ALDOT (\$234k, 2012 - 2015).
- Traffic Signal Design Guide and Timing Manual Update. (PI). Funded by ALDOT (\$48k, 2012 - 2014).
- Travel Time Assessment of Adaptive Traffic Signal Control Systems. (PI). Funded by ALDOT (\$160k, 2012 - 2013).
- Safety and Operational Evaluation of Adaptive Traffic Signal Control. (PI). Funded by ALDOT (\$585k, 2012 - 2016).

- Bridge Rail Safety Analysis (PI). Funded by ALDOT (\$130k, 2012 - 2014).
- Scoping Study for Implementation of Highway Safety Manual in Alabama (Co-PI). Funded by ALDOT (\$301k, 2010 - 2012).
- A National Model for the Evaluation of Commercial Motor Vehicle Selective Enforcement Programs (Co-PI). Funded by the Federal Motor Carrier Safety Administration (\$202k, 2010 - 2011).
- Characterization of Non-recurrent Congestion. Funded by the University Transportation Center of Alabama (UTCA). (\$150k, 2009 - 2012).
- Traffic Signals on Oversaturated Arterials (PI). Funded by UTCA (\$120k, 2007 - 2009).
- Development of a Statewide Traffic Signal Design/Timing Manual and Online Guide (PI). Funded by ALDOT (\$126k, 2003 - 2005).
- U.S. Highway 280 Access Management Alternatives Analysis and Visualization (PI). Funded by the Regional Planning Commission of Greater Birmingham. (\$93k, 2003)
- Regional Traffic Simulation for Emergency Preparedness (Co-PI). Funded by UTCA (\$103k, 2003)
- Investigation of Land Use Planning and Subdivision Zoning Requirements to Support Access Management (PI). Funded by the Regional Planning Commission of Birmingham. (\$68k, 2003 -2004)
- Traffic Simulation Software Comparison Study (PI). Funded by UTCA (\$69k, 2002).
- Multimodal Transportation Planning in Alabama (PI). Funded by UTCA (\$59k, 2001).
- Internet-based Surveys to Support Travel Behavior in Alabama (PI). Funded by University of Alabama at Huntsville as a subcontract to an ALDOT project (\$23k, 2001).
- Deploying Advanced Public Transportation in Birmingham (PI). Funded by UTCA (\$102k, 2001).

Transportation Planning and Policy

- Development of a Methodology to Estimate Traffic Volumes for Crash Modeling. (PI). Funded by the University of Alabama at Huntsville as a subcontract to ALDOT (\$56k, 2015 - current).
- Alabama Traffic Data Collection Analysis and Forecasting. (PI). ALDOT (\$2,974k, 2014 - current).
- Defining a Post-Conflict Role for Rural Transport in Sub-Saharan Africa: A Crosscutting Literature Review. (PI). Funded by the UK Department for International Development, African Community Access Programme (\$11k, 2013).
- Alabama Traffic Data Collection Analysis. (PI). Funded by ALDOT (\$1,499k, 2013 - 2014).
- Assessing Air Quality Effects of Freeway Service Patrol Programs (PI). Funded by Auburn University as a subcontract to an ALDOT project (\$32, 2006 - 2007).
- Corridor X Access Management Plan (PI). Funded by the Regional Planning Commission of Greater Birmingham/ ALDOT /Appalachian Regional Commission (\$313k, 2003 - 2005).
- Intermodal Management System Update and Integration of Environmental Justice Elements into the Transportation Planning Process (PI). Funded by the Regional Planning Commission of Greater Birmingham (\$69k, 2003 - 2005).
- Development of a Carbon Monoxide Screening Model for Air Quality Analyses of Transportation Projects in Alabama (PI). Funded by ALDOT (\$192k, 2003 - 2005).
- PM 2.5 Emissions from Roadways in Birmingham (Co-PI). Funded by UTCA (\$19k, 2002).
- Minimizing Emissions from Roadway Construction (Co-PI). Funded by UTCA (\$10k, 2002).

Transportation Education and Technology Transfer

- Administration of the Southeastern Transportation Center Regional Technology Transfer Program 2014 – 2016 (PI). Funded by the Southeastern Transportation Center (\$75k, 2013 - Current)
- Feasibility of Developing a Pilot Car Training and Certification Program in Alabama (PI). Funded by the Alabama Department of Transportation (\$108k, 2005 – 2007).

- Development of ITS-related Educational Activities (PI). Funded by UTCA (\$58k, 2002).
- Annual Technology Transfer Program (PI). Funded by UTCA (\$624k, 2002 - 2005).

Conferences Organized

- Southeastern Regional University Transportation Center Conference, Knoxville, TN, USA Mar 31 – Apr 1, 2016.
- Southeastern Transportation Center Fall Research Conference, Knoxville, TN, USA Sep. 29 – 30, 2014.
- Conference Chair, 3rd Annual International Conference on Urban Transportation Systems. ASCE, Transportation & Development Institute, Paris, France, November 11 – 14, 2012.
- Best Paper Awards organizer, 2013 Green Streets, Highways and Development Conference, ASCE, Transportation & Development Institute, Austin, TX, USA, November 3 – 6, 2013.
- Gulf Region Intelligent Transportation Society Spring Meeting. Tuscaloosa, AL, March 3rd, 2011.
- Chaired *Transportation Session* at International Simulation Society Conference in Huntsville, AL, USA, October 25th, 2005
- 1st – 3rd Annual UTCA Research Symposium, Birmingham, AL, USA, 2003, 2004, 2005.

Academics & Teaching

University Courses Developed and Taught (Undergraduate/Graduate)

- | | |
|--|---|
| • Sustainable Transportation (GR) | • Geometric Design (UG/GR) |
| • Intro to Transportation Engineering (UG) | • Urban and Transportation Planning (UG/GR) |
| • Traffic Engineering (UG/GR) | • Traffic Signal Systems Design (UG/GR) |
| • Public Transportation (UG/GR) | • Intro to Environmental Engineering (UG) |
| • Statistics (UG) | • Honors, Fundamentals of Engineering (UG) |
| • Statics (UG) | • CarNation: The Automobile in Society (UG) |
- Developed and taught twelve courses – career-long average instructor rating of 4.4/5.0.
 - Developed a study abroad program for University of Alabama civil engineering students to spend a semester at University College Dublin, Ireland. Civil engineering courses were mapped to local curriculum to facilitate transferability and ensure ABET compliance.
 - Developed a study abroad program for University of Alabama civil engineering students to spend a semester at University College Dublin, Ireland.
 - Developed a faculty-led, two course (6 credit hours) experience for students at the Havana University of Technologies José Antonio Echeverría (CUJAE) in Havana, Cuba.
 - Directed research experiences for two *Computer-Based Honors* undergraduate students.
 - Directed research experiences for one *Emerging Scholars* undergraduate student.
 - Mentored four Brazilian Summer Research Program visiting undergraduate students.
 - Served on team to develop a university-wide, multidisciplinary minor in Public Policy.

Visiting Scholars Hosted

- Xinwei Lu, Transportation Economics Scholar from Chang'An University, Jun 2016 – July 2017
- Wei Li Wang, Transportation Engineering PhD Student from Tongji University, Oct 2015 – Feb 2016
- Ping Wang, Transportation Engineering Scholar from Tongji University, Jun – Jul 2014

Graduate Students Advised

- Marc Thompson, MS, May 2002 (Chair)
 - Naveen Cheekoti, MS, August 2003 (Chair)
 - Muhammad Aslam, MS, May 2004 (Chair)
 - Yatin Joshi, MS, May 2004 (Chair)
 - Sameer Patharkar, MS, May 2005
 - Sunil Shinde, MS, August 2005 (Chair)
 - Kapil Sharma, MS, December 2005 (Chair)
 - Daniel Thomas, MS, May 2005 (Chair)
 - Santosh Shanmugam, MS, Dec. 2005 (Chair)
 - Davyda Hammond, PhD, May 2005
 - Charles Robinson, PhD, August 2006 (Chair)
 - Apurva Anderlukar, MS, May 2007 (Chair)
 - Saravanan Gurupackiam, PhD, Dec. 09 (Chair)
 - Ping Wang, PhD, May 2010 (Chair)
 - Liuhui Zhao, MS, May 2011
 - Alan Brown, MS, August 2011 (Chair)
 - Mohammed Seyed, MS, August 2011
 - Frances Green, MS, August 2011
 - Elsa Tedla, MS, August 2011 (Chair)
 - Laura Beth Pockstaller, MS, May 2012 (Chair)
 - Benjamin Lundberg, MS, May 2012
 - Moses Tefe, PhD, August 2012 (Chair)
 - Kenneth Anderson, MS, December 2012
 - Saravanan Gurupackiam, PostDoc, 2013-2014
 - Kofi Adanu, MS, May 2015 (Chair)
 - Gaurav Mehta, PhD, December 2014 (Chair)
 - Jeff Wilson, PhD, May 2014
 - Tyler Fields, MS, December 2014 (Chair)
 - Abdul Majeed, MS, May 2015 (Chair)
 - Jenna Simandl, MS, August 2015
 - Amanda Hoffman, MS 2015
 - Mary Dondapati, PhD, May 2015
 - Jing Li, PostDoc, 2014-2015
 - Gaurav Mehta, PostDoc, 2015
 - Abhay Lidbe, PhD, December 2016 (Chair)
 - Luana Ozelim, PostDoc, 2015-2016
 - Ting Fang, MS, May 2017
 - Caroline Glass, MS, May 2017
 - William McWhorter, MS, May 2017
 - Kofi Adanu, PhD, August 2017 (Chair)
 - Irina Riehle, MS, December 2017 (Chair)
 - Samwel Zephaniah, PhD, Dec 2017 (Chair)
 - Preston Jutte, MS, May 2018 (Chair)
 - Elizabeth Connell, MS, May 2018 (Chair)
 - Abu Sufian Talukder, PhD, May 2019
 - Naima Islam, PhD, May 2020
 - Riffat Islam, PhD, May 2022 (Chair)
 - Praveena Penmesta, PostDoc, Current
- Served as an External Examiner for a *Masters in Development Practice (MDP)* students from the University of Botswana

Professional Service & Experience

Honors

- 2018-2019 Fulbright U.S. Scholar Award
- 2011 Donald H. McLean Civil Engineering Professor of the Year Award
- 2010 American Society of Civil Engineers Excellence in Civil Engineering Education Teaching Workshop
- Selected as a Representative for the 2006 Rotary International Group Study Exchange with Norway
- Selected to attend the National Science Foundation-sponsored Pan-American Advanced Studies Institute on Transportation Sciences, Toluca & Queretaro, Mexico, July 24th – August 8th, 2005.

Leadership Activities

- Associate Director, University Transportation Center for Alabama, 2015 – present
- Director, Technology Transfer, Southeastern Transportation Center, 2014 – present
- Director, UA Engineering in Cuba, 2014 – present
- Chair, ASCE Transportation & Development Institute, Public Transport Committee, 2014 – present

- Advisory Board, UA Center for Cuba Collaborations and Scholarship, 2014 – 2017
- Gulf Region Intelligent Transportation Society, Board of Directors, 2014 – 2017
- Director, Technology Transfer, University Transportation Center for Alabama, 2003 – 2006
- Faculty Advisor, Institute of Transportation Engineers Student Chapter, 2010 – 2015
- Faculty Advisor, Chi Epsilon (National Civil Engineering Honor Society), 2005 – 2007

University Service Activities

- Committee on Student and Campus Life, 2016 – present
- University Strategic Planning Council, Research Subcommittee, 2016 – 2017
- Co-Chair, Faculty Senate Research and Service Committee, 2015 – 2017
- Faculty Senate, 2015 – 2017
- Research Advisory Committee, 2015 – 2017
- Committee on Rhodes, Truman, Fulbright, Boren, and Marshall Scholarships, 2015 – present
- Capstone International Exchange Program Committee, 2012 – present
- University-wide Public Policy Minor Planning Committee, 2011 – 2013
- CCE Study Abroad Advisor, 2010 – present

Professional Affiliations

- American Society of Civil Engineers (ASCE)
- Institute of Transportation Engineers (ITE)
- International Road Federation (IRF)
- World Conference on Transportation Research Society (WCTRS)
- American Soc. for Engineering Education (ASEE)

Professional Service Activities

- Member, WCTRS Urban Transport in Developing Countries Special Interest Group, 2017 – present
- Member, WCTRS Transport and Health Special Interest Group, 2017 – present
- Member, International Road Federation, Road Safety Committee, 2016 – present
- Friend, TRB International Cooperation Committee (A0010), 2015 – Present
- Representative for the University of Alabama, Transportation Research Board (TRB), 2012 – 2017
- Member, TRB Technology Transfer Committee (ABG30), 2005 – 2015
- Member, ASCE Transportation & Development Institute, Public Transport Committee, 2012 – present
- Member, ASCE Committee on Sustainability and Environment, 2007 – 2014
- Member, Environmentally Sustainable Transport Forum for Africa Advisory Group, 2013
- Friend, TRB Transportation in the Developing Countries Committee (ABE90), 2009 – Present
- Friend, TRB Transportation and Sustainability Committee (ADD40), 2006 – Present
- Member, Southern District ITE, Strategic Planning Committee, 2006 – 2007
- Alabama Section of ITE, Technical Knowledge Champion to District, 2006 – 2007
- Member, Technical Committee, Regional Planning Commission of Birmingham, 2002 - 2005

Academic/Editorial Service Activities

- Editorial Board, *African Geographical Review*, 2017 – Present
- Editorial Board, *Advances in Transportation Studies*, 2017 – Present
- Guest Editor, *PLOS One*, 2017
- Editorial Board, *Journal of Transportation Safety & Security*, 2013 – Present
- Associate Editor, *ASCE Journal of Professional Issues in Eng. Education and Practice*, 2006 – Present

- Member of Scientific Committee for 2014 ASCE T&DI World Congress
- Editorial Committee Member, *ITE Manual of Transportation Engineering Studies*, 2nd Edition, 2009
- Panel Member, National Cooperative Highway Research Program (NCHRP) Project 03-85, Guidance for the Use of Simulation in the *Highway Capacity Manual*
- Panel Member, NCHRP Synthesis 32-05, *Driveway Regulation Practices*
- Panel Member, Transit Cooperative Highway Research Program Synthesis SA-13, *Yield to Bus Practices*
- Reviewer, *ITE Establishing Speed Limits* brochure
- Reviewer, National Highway Institute *Safety Fundamentals* textbook.
- Reviewer, *ITE Signal Timing Practices and Procedures. State of the Practice* report
- Reviewer, *Transportation Research Part A, Transportation Research Part D, Transportmetrica A: Transport Science, ASCE J. of Transportation Engineering, ASCE J. of Urban Planning and Development, ASCE J. of Professional Issues in Engineering Education and Practice, Ecological Indicators, Journal of Transport Geography, Land Use Policy, Cogent A Social Science, Transportation Research Record, International Journal of Geo-Information, UN-Habitat International, UN-Natural Resources Forum, Advances in Transportation Studies, Cities, Sustainability, Travel Behavior and Society, The Social Science Journal, IATSS Research, International Journal of Sustainable Transportation, PLOS ONE, Area Development and Policy, African Journal of Science and Technology, African Geographical Review, Journal of African Studies and Development, Development Southern Africa, Safety*

Sample Industry Experience

- *Urban Regeneration, Minsk, Belarus.* Secured and managed a multidisciplinary team in conducting an engineering feasibility analysis for of 650,000 m² of mixed-use development in the city center of Minsk. Liaised with international property assessors, cost consultants and project manager to assess the capacity of the local engineering infrastructure (transport system, water, waste water, energy) to accommodate the proposed projects. Prepared costs estimates for infrastructure upgrades and a technical due diligence report for investor clients.
- *Jagiellonska Gallery, Bialystok, Poland.* Conducted access studies for a large (1.1M s.f.) shopping center in city center of Bialystok. Project involved trip generation and analysis of alternate access scenarios and resulting impacts to surrounding road network including a major roundabout junction.
- *National Conference Center, Dublin, Ireland.* Conducted the transport component of an Environmental Impact Statement for a large mixed-use development that includes the National Conference Center of Ireland, its associated five-star hotel and surrounding offices, retail and residential development in Dublin city centre. The project includes the development of a new commuter rail station and local stop for the extension of the light-rail transit line.
- *Proposed Commercial Development, Youghal, Co. Cork, Ireland.* Managed the Transport Assessment study for a 10,000 m.² mixed-use development in the centre of Youghal. Duties include managing traffic surveys, junction analyses, trip generation, report development and client/public meetings.
- *University of Central Asia - Khorog, Tajikistan, Tekeli, Kazakhstan, Naryn, Kyrgyzstan.* Provided access circulation advice on the final design plans for three large university campuses. Vehicular and pedestrian circulation plans were developed to accommodate students, visitors and large percentages of on-campus residents (faculty and students) as the campuses were all quite isolated. The campuses included extensive networks of walking/cycle paths and two had to accommodate sever changes in elevation across the campus due to the local topography.

- *Pyramida, Kiev, Ukraine.* Managed a strategic access circulation for a proposed 20,000+ m² retail expansion in suburban Kiev.
- *East Park Shopping Centre, Bucharest, Romania.* Provided motorway accessibility and internal parking and circulation input on concept design for a large retail development in suburban Bucharest.
- *Rural Road Development, Romania.* Developed a detailed proposal for submittal to the *World Bank/Romanian Agency for Sustainable Development of the Industrial Areas* for capacity and safety improvements projects in rural villages. Coordinated the development of Romanian language submission materials (including cost proposal) with local partners.
- *Warsaw Spire, Poland.* Conducted access studies for a major high-rise (48-storey) development in the city center of Warsaw. Analyses involved multiple alternatives for accessing the basement car park and circulation on surrounding city streets.
- *Stylebawn Residential Development, Delgany, Ireland.* Managed the development of a Road Safety Audit and Design Response for the transportation component of a residential development in a rural/suburban area of County Wicklow.
- *Proposed Mixed-Use Development, Ballymadun, Ireland.* Conducted a trip generation and modal split study for a large (250,000 sq.m.) mixed-use development. Project involved predicting car trips to generated on the N2 National Road as well as apportioning trips among the various modal split scenarios set out in the Dublin-area *Transport 21* initiative.
- *Route Selection Rush LAP land, Co. Dublin, Ireland.* Participated in a study to identify candidate routes for a new road to be constructed along with proposed development in a Greenfield area. Developed an approach to ensure that the route selection process is cognisant of the road hierarchy set out in the by the National Roads Authority.
- *Villa Nova, Kiev, Ukraine.* Developed design criteria report for transportation component of a residential development in suburban Kiev.
- *Newcastle Hotel, Dublin Ireland.* Developed vehicular and pedestrian circulation schemes for a two-story underground (650 space) car park for a large luxury hotel and conference center.
- *Proposed Industrial Development, Arklow, Co. Wicklow, Ireland.* Participated in a Transport Assessment study for a large industrial development. Duties include managing traffic surveys, junction analyses, trip generation and report development.
- *North Drogheda Environs Group Mixed-Use Development, County Louth, Ireland.* Assisted in the development of an Environmental Impact Statement for a mixed-use land development project.
- *Hoover ATMS, Hoover, AL, USA.* Served as the project manager for an Advanced Traffic Management System design study for the Hoover metropolitan area. The project area contains the junction of two major interstate highways (I-59 & I-459) and a major U.S. Highway. The tasks associated with the project included: determination of equipment needs and installation locations including variable message signs, closed-circuit television cameras, and fiber optic communications equipment and the preparation of final design plans for ALDOT.

- *North Leinster Schools, Co. Dublin, Ireland.* Provided technical input into the traffic and pedestrian circulation schemes at two new schools in the Dublin area. Examined on-site traffic operations for two new schools. Developed recommendations for pedestrian, vehicular and school bus circulation.
- *Birmingham Emergency Preemption System Design, Birmingham, AL, USA.* Served as project manager on an effort to upgrade the emergency-vehicle preemption equipment at 62 intersections throughout the City of Birmingham. The project included the development of a complete set of Alabama Department of Transportation (ALDOT) plans including equipment locations, signal phasing for preemption, and wiring diagrams. Responsible for writing technical specifications for all equipment.
- *Signal System Modifications, Gadsden, AL, USA.* Participated in the design of 55 intersections in the CBD of Gadsden, AL. Performed traffic data collection, inspection of existing equipment, signal warrant analyses, traffic signal layout, and wiring diagrams. Compiled a complete set of plans for ALDOT including, quantity estimates, project details, and traffic control plans.
- *Corridor Study, Shelby County Route 11, Shelby County, AL, USA.* Performed data collection, field investigations, and analysis on a 14-mile section a rapidly developing suburban roadway to identify potential operational and safety improvements. Reviewed census data, current and proposed land use information, and zoning practices to assist the County in coordinating development with the transportation infrastructure. Produced a list of potential projects and budgets necessary to address the existing deficiencies (capacity, safety, etc.) as well as accommodate the anticipated growth.
- *Traffic Signal Design with Railroad Preemption, Leesville, LA, USA.* Served as project manager for a traffic signal installation design for the intersection of LA Highway 171 at Red Town Road. The signal installation site was an offset intersection requiring a total of 8 strain poles and twelve signal heads. Railroad preemption had to be provided for one side street approach. Duties included: signal system design, traffic signal timing design, railroad preemption timing, and preparation of final plans.
- *Downtown Signal Interconnect System, Syracuse, NY, USA.* Participated in the preliminary feasibility and design phases of a city wide closed loop traffic signal system. System consisted of 171 signalized intersections. Initial tasks included an inventory of existing traffic control equipment and inspection of existing communications infrastructure. Developed fiber optics interconnect plans and preliminary system cost estimates to be included in a preliminary design report.
- *Penn-Lincoln Parkway Surveillance and Control, Pittsburgh, PA, USA.* Participated in the design study for a freeway surveillance and control system. Each candidate system included controllers, variable message signs, highway advisory radio, and closed circuit television. Conducted field investigations to determine the preliminary placement of system components and interconnect routing. Prepared cost estimates and assisted in the production of a preliminary engineering report.
- *Alabama Highway 150 Signal System Upgrade, Hoover, AL, USA.* Served as project manager for the design of a traffic signal installation at the intersection of Al Hwy 150 and the northbound ramps to I-459. The project included an effort to tie the new traffic signal and three adjacent signals into the Hoover Advanced Traffic Management System. Specific tasks included developing signal design plans, fiber optic interconnect plans, and the development of signal timing plans for the system.
- *Intersection Improvements, Etowah County, AL, USA.* Participated in the development of traffic

channelization and signal design plans for two intersections along a major state route. Special geometric and signal timing considerations were designed to accommodate 20% truck traffic.

- *Oxmoor Road Traffic Calming Study, Homewood, AL, USA.* Examined pedestrian, bicycle, and vehicular operations along a section of Oxmoor Road. The goal of the project was to identify low cost traffic calming measures that would preserve the role of the roadway as a collector as well as provide safe mobility for the residents of the adjacent neighborhoods.
- *Corridor Study, Old Montgomery Highway, Homewood, AL, USA.* Managed and conducted a corridor study along a rapidly developing section of Old Montgomery Highway. Projects tasks include capacity analyses at intersections along the corridor, speed and sight distance studies, and coordination with property owners to ascertain development plans and end user needs. The project resulted in a report summarizing the existing and projected future conditions analyses and detailing improvement recommendations to allow the corridor to accommodate the anticipated growth.
- *Traffic and Pedestrian Circulation Studies, Mountain Brook, AL.* Served as project manager on a project to analyze the effects of converting two streets in the CBD of Mountain Brook from one-way to two-way operations. Collected and analyzed traffic data, projected new traffic distributions and made recommendations. Also studied pedestrian circulation and safety including the operations of a school crossing in the CBD.
- *Traffic Impact and Planning Studies.* Managed and performed numerous traffic planning/impact studies for land development projects including nationwide retail chains, large shopping centers, and local residential developers in rural and small urban areas. Efforts included market studies using Census data, ITE trip generation procedures, trip assignment, trip distribution, traffic signal warrant analyses, and intersection and arterial capacity analyses.
- *Assessment of Advanced Warning Signs for Flagging Operations.* Served as principle investigator on a Virginia Department of Transportation sponsored project to assess the effectiveness of a newly proposed warning sign for flagging operations that depicts a worker holding a STOP/SLOW paddle in lieu of a flag. The project was successfully completed and the results forwarded to the Federal Highway Administration. The results of the study are currently being used in a petition to amend the Federal Manual on Uniform Traffic Control Device (MUTCD).

Contact Information

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