

## **Brian Wolshon, Ph.D., P.E., PTOE**

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### **Biography**

Dr. Brian Wolshon is the Edward A. and Karen Wax Schmitt Distinguished Professor of Engineering in the Department of Civil and Environmental Engineering at Louisiana State University (LSU). He has served on the faculty of LSU since January 1997. Prior to this appointment he worked in private practice for engineering consulting firms in California and Michigan and, as part of his doctoral program, was appointed as a Graduate Research Fellow at the United States Department of Transportation's Turner-Fairbank Highway Research Center in McLean, Virginia.

In addition to his faculty appointment at LSU, Dr. Wolshon has also had research appointments at two National Laboratories and two other universities. During his sabbatical term from January to May 2008, Dr. Wolshon served as a Visiting Research Professor in the Radiological Consequence Management and Response Technologies Department of the Sandia National Laboratories in Albuquerque New Mexico. In the summer of 2006, Dr. Wolshon was appointed as an Affiliate Researcher in the Energy & Infrastructure Analysis Laboratory at the Los Alamos National Laboratory (LANL) in New Mexico. During the spring semester of 2016, Dr. Wolshon was appointed as a Visiting Professor in the National Disaster Preparedness Training Center at the University of Hawaii while on sabbatical. He then continued his overseas research activities through the summer of 2016 under an appointment as a Visiting Professorial Fellow in the School of Civil Engineering at the University of New South Wales in Sydney, Australia.

Over the years, Dr. Wolshon's research program has grown into an internationally recognized and award winning source of emerging knowledge and technical expertise. His work has led to significant advances in the understanding, analysis, planning, and management of mass evacuations. His work as a researcher and consultant has earned support from numerous federal, state, and local agencies as well as national laboratories and scores of private firms. His research results are frequently cited by both researchers and practitioners and his expertise is highly sought after by news and media organizations throughout the world.

Throughout his career Dr. Wolshon has had a consistently increasing level of leadership positions and professional responsibility. At LSU he served as the Department of Civil Engineering's Coordinator of Undergraduate Programs and, since 2008, as the Director of the

*Gulf Coast Center for Evacuation and Transportation Resiliency*. Outside of LSU, he has also served in leadership positions for numerous national organizations and programs, including as the Founding Chair of ABR30 the Transportation Research Board's Committee on Emergency Evacuation and of the biannual *National Evacuation Conference*, several other national conference events, and research journals.

## **Education**

- Michigan State University, East Lansing, Michigan  
Doctor of Philosophy, May 1997  
Major in Civil Engineering with an emphasis in transportation engineering.
- Michigan State University, East Lansing, Michigan  
Master of Science, June 1990  
Major in Civil Engineering with an emphasis in transportation engineering.
- Wayne State University, Detroit, Michigan  
Bachelor of Science, May 1988  
Major in Physics

## **Professional Employment and Academic/Research Appointment History**

- **Louisiana State University**  
Department of Civil and Environmental Engineering, Baton Rouge, Louisiana
    - Professor, August 2009 to present
      - Coordinator of Undergraduate Programs, August 2005 to July 2007
    - Associate Professor, August 2003 to July 2009
    - Assistant Professor, January 1997 to July 2003
  - **Gulf Coast Center for Evacuation and Transportation Resiliency**  
Baton Rouge, Louisiana
    - Director, August 2008 to present
  - **University of Hawaii**  
National Disaster Preparedness Training Center, Honolulu, HI
    - Visiting Professor, January 2016 to June 2016
  - **University of New South Wales**  
School of Civil Engineering, Sydney, Australia
    - Visiting Professorial Fellow, June 2016 to August 2018
  - **Sandia National Laboratories**  
Radiological Consequence Management and Response Technologies Department, Albuquerque, New Mexico
    - Visiting Research Professor, January 2008 to May 2008
  - **Los Alamos National Laboratory**  
Energy & Infrastructure Analysis Laboratory, Los Alamos, New Mexico
    - Affiliate Researcher, June 2006 to July 2007
  - **JCK and Associates, Inc.**  
Novi, Michigan
-

- Project Engineer, July 1991 to December 1996
- **Barton-Aschman Associates, Inc.**  
Southfield, Michigan
  - Associate, December 1990 to July 1991
- **Federal Highway Administration**  
Turner-Fairbank Highway Research Laboratory, Safety-Design Research Division, McLean, Virginia
  - Graduate Research Engineer, June 1990 to December 1990
- **Linscott, Law, and Greenspan Engineers, Inc.**  
Pasadena, California
  - Transportation Engineer I; June 1989 to September 1989

### **Professional Registrations**

- Professional Engineer, State of Louisiana No. 28085
- Professional Engineer, State of Michigan No. 40627
- Professional Engineer, State of Florida No. 71789
- Professional Traffic Operations Engineer, No. 081

### **Honors, Awards, Lectureships, and Prizes**

- 2017 James M. Todd Technical Accomplishment Medal, Louisiana Engineering Society - Baton Rouge Chapter.
- Faculty Research Achievement Award, LSU Department of Civil and Environmental Engineering, 2014.
- Edward A. and Karen Wax Schmitt Distinguished Professorship, 2010
- Distinguished Lecturer, Sandia National Laboratories Nuclear Energy and Global Security Technologies Distinguished Lecture Series, Albuquerque, NM, June 2009
- 2008 James M. Todd Technical Accomplishment Medal, Louisiana Engineering Society
- Roy Paul Daniels Distinguished Professor, LSU College of Engineering, 2008
- Faculty Achievement Award, LSU Department of Civil and Environmental Engineering, 2008
- 2007 James M. Todd Technical Accomplishment Medal, Louisiana Engineering Society - Baton Rouge Chapter
- LSU College of Engineering Outstanding Faculty Teaching Award, 2004
- LSU Student Chapter of the American Society of Civil Engineers Outstanding Teacher of the Year Award, 2004.
- Excellence in Teaching Award, Southern District of Chi Epsilon, 2000-2001
- Eisenhower Faculty Fellowship, Federal Highway Administration, United States Department of Transportation, 1999
- Outstanding Faculty Member Award, LSU Chapter of Chi Epsilon, 1998 - 1999
- Eisenhower Faculty Fellowship, Federal Highway Administration, United States Department of Transportation, 1998
- Outstanding Teaching Award, Louisiana State University, Tiger Athletic Foundation, 1998

- Eisenhower Faculty Fellowship, Federal Highway Administration, United States Department of Transportation, 1997

## **INSTRUCTIONAL ACTIVITIES**

### **Courses Taught**

- CE 3600 - Principles of Highway and Traffic Engineering
- CE 3740 – Independent Studies in Civil Engineering
- CE 4600 - Geometric Design of Highways and Airports
- CE 4760 – Civil Engineering Design (Transportation)
- CE 4780 – Hurricane Engineering II
- CE 4780 – Hurricane Engineering III
- CE 7612 - Traffic Operations and Analysis
- CE 7615 - Advanced Highway Design and Traffic Safety
- CE 7750 - Graduate Seminar

### **Professional and Continuing Education Instructional Activities**

1. Professional Traffic Operations Engineer (PTOE) Licensing Examination Review Course, Federal Highway Administration, Louisiana Division, Baton Rouge, LA.
  - a. August 2002 (8 hours)
  - b. February 2002 (8 hours)
2. Institute of Transportation Engineers, Biloxi, MS. June 2007 (4 hours)
3. Professional Engineers (PE) Licensing Examination Review Courses, Transportation Engineering Specialization.
  - a. Louisiana State University, Baton Rouge, LA, March 2008. (3 hours)
  - b. Louisiana State University, Baton Rouge, LA, March 2007. (3 hours)
  - c. Louisiana State University, Baton Rouge, LA, February 2006. (3 hours)
  - d. Louisiana State University, Baton Rouge, LA, August 2005. (3 hours)
  - e. Louisiana State University, Baton Rouge, LA, September 2004. (5 hours)
  - f. Louisiana State University, Baton Rouge, LA, September 2003. (5 hours)
  - g. Louisiana State University, Baton Rouge, LA, September and October 2002. (7 hours)
  - h. United States Army Corps of Engineers, New Orleans District, New Orleans, LA, October 2001. (5 hours)
  - i. Louisiana State University, Baton Rouge, LA, September and October 2001. (7 hours)
  - j. Louisiana State University, Baton Rouge, LA, September and October 2000. (7 hours)
  - k. Louisiana State University, Baton Rouge, LA, September and October 1999. (5 hours)
  - l. Louisiana State University, Baton Rouge, LA, October 1998. (6 hours)
  - m. University of Southern Mississippi, Gulfport, MS, October 8, 1998. (3 hours)
4. “Challenges and Solutions for Hurricane Evacuations: A Local and National Prospective,” Continuing Professional Development Course, ASCE Baton Rouge Branch Meeting, Baton Rouge, Louisiana, August 2000. (1 hour)

## **Invited Instructional Presentations/Lectures**

1. "Research, Planning, and Lessons Learned in Evacuation and Transportation Resilience," Northwestern University Transportation Seminar, Evanston, IL, February 2018.
3. Invited Guest Presentation Series, Beihang University, Beijing, People's Republic of China, May/June 2017.
  - a. "Emergency Evacuation and Transportation Resiliency" May 2017
  - c. "Identifying High-Risk Roadways Through Jerk-Cluster Analysis," June 2017
  - d. "Traffic Operations and Control in the United States" June 2017
4. "Evacuation Traffic and Transportation Planning and Management," National Hurricane Conference, New Orleans, LA, April 2017.
5. "Traffic Simulation and Modelling for Flexible Notice Mass Evacuations," Department of Civil and Environmental Engineering, Technical University of Delft, The Netherlands, December 2016.
6. "Resilient Transportation Systems in Emergencies," Department of Civil and Environmental Engineering, University of New South Wales, Sydney, Australia, August 2016.
7. "Adaptation of Transportation Systems for Mass Evacuation, Resiliency, and Risk Reduction" Seminar Presentation, Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, MI, March 2016.
8. "Traffic Engineering Handbook, 7th Edition - A Sneak Peek," ITE Learning Hub Webinar Series, Institute for Transportation Engineers, Washington, DC, March 2016.
9. "Roadway Jerk Cluster Analysis for the Forecasting of High Crash Potential Road Locations," Louisiana Engineering Society, Baton Rouge, LA, December 2015.
10. "Evacuation Research, Planning, and Lessons Learned from Hurricanes in the United States," Department of Civil and Environmental, Engineering, University of New South Wales, Sydney, Australia, April 2015.
11. "Evacuation Research, Planning, and Lessons Learned from Hurricanes in the United States," Department of Civil and Environmental, Engineering, University of New South Wales, Sydney, Australia, April 2015.
12. "Evacuation and Resilience Practice and Research in the United States," Department of Civil, Environmental, and Mining Engineering, Monash University, Melbourne, Australia, April 2015.
13. "Evacuation and Resilience Practice and Research," Making Cities Resilient Swedish Exchange, New Orleans, LA, February 2015.
14. "R.E.S.C.U.M.E. - Assessment of EVAC and Evacuation Communications for Evacuation in Greater New Orleans," Dynamic Mobility Applications Webinar Series, United States Department of Transportation, Washington, DC, February 2015.
15. "Practices, Policies, and Technology Applications of Evacuation and Emergency Transportation Management," TRB Workshop on Risk Assessment, Part 1: Decision Support Models and Tools to Evaluate and Address Risk, 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January 2013.
16. Getting Ready for the Unexpected - Planning for Evacuations: Real Solutions Web Conference, National Highway Institute, USDOT Federal Highway Administration, October 2012.

17. "Mass Evacuation Practice and Research, Preparing for Natural and Man-Made Events," Boston College Irish Institute, New Orleans, LA, May 2011
18. "Evacuation Research Initiatives and Results," Florida Atlantic University and the Florida Institute of Transportation Engineers, Boca Raton, FL, March 2011
19. "Multimodal and Special Needs Regional Hurricane Evacuation Planning and Modeling," TRB Workshop on Transportation, Security, and Evacuation Planning for Large and Special Events, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January 2010.
20. "Evacuation Traffic Planning and Management: History and Development," Wisconsin Department of Transportation, Milwaukee and Madison, WI, November 2009.
21. "Highway and Traffic Engineering in North America," Libyan Infrastructure Training Series, Rice University, Houston, TX, June/July 2009.
22. "Transportation's Role in Evacuation," Lessons Learned from Ike – Hurricane Preparedness and Recovery Workshop - Gulf Coast Severe Storm and Hurricane Preparedness Training Series, SSPEED Center – Rice University, Houston, TX, October 2008.
23. "The History, Outcomes, and Future of Evacuation Traffic Simulation in Louisiana," TRB Workshop on Simulation, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January 2008.
24. "Traffic Impact and Dispersal Patterns on Low Volume Roads During Mass Evacuations" Disasters and Low Volume Roads Workshop, 9<sup>th</sup> International Conference on Low Volume Roads, Austin TX, June 2007.
25. "Outcomes from the 2007 National Conference on Disaster Planning for the Carless Society," Research Council Committee Meeting on the Role of Public Transportation in Emergency Evacuation, National, Washington DC, March 2007. (via teleconference)
26. "Evacuation Research – Recent Developments and Continuing Initiatives," Federal Highway Administration Office of Transportation Operations, Transportation Evacuation Planning and Operations Workshop, Lake Buena Vista, FL, April 2004
27. "Hurricane Evacuation –Plans, Issues, and the Operational Effect of Reversible Lanes Evacuation Strategies" Institute of Transportation Engineers Chapter Meeting/Department of Civil Engineering, University of Louisiana at Lafayette, Lafayette, LA, February 2004.
28. "Contraflow Evacuations – Recent Research Findings," Federal Highway Administration Office of Transportation Operations, Transportation Evacuation Planning and Operations Workshop, New Orleans, LA, April 2003.
29. "Contraflow Traffic Operations for Hurricane Evacuation: Current Plans, Policies, and Research Initiatives," Federal Highway Administration Traffic Operations for Hurricane Evacuation Regional Workshop Series.
  - Houston, TX, February 2002.
  - Raleigh, NC, January 2002.
  - Jacksonville, FL, January 2002.

## Research Activities

### Publications

#### *Books/Monographs*

1. P. Murray-Tuite, M. Lindell, B. Wolshon, and E.J. Baker. "Large-Scale Evacuation: The Analysis, Modeling, and Management of Emergency Relocation from Hazardous Areas (working title), in contracted and in development for publication by CRC Press, Taylor and Francis Publishing Group, LLC, September 2018.
2. Wolshon, B. and A. Pande, "Critical Review of Methodologies for Evaluating In-Use Safety Performance of Guardrail End Treatments and Other Roadside Treatments," TRB Special Report 323: In-Service Performance Evaluation of Guardrail End Treatments, Transportation Research Board, National Research Council, Washington DC, 2017.
3. Matherly, D., N. Langdon, A. Kuriger, I. Sahu, B. Wolshon, J. Renne, R. Thomas, P. Murray-Tuite, and V. Dixit, A Guide to Regional Transportation Planning for Disasters, Emergencies, and Significant Events, National Cooperative Highway Research Program, Report 777, ISBN: 978-0-309-07023-2, Transportation Research Board, National Research Council, Washington DC, 2014, 148 pp. (See also: Electronic Dissemination of Research)
4. Pesesky, L., D. Ismart, C. Huffman, Y.C. Chiu, H. Zheng, E. Nava, V. Dixit, B. Wolshon, E. Radwan, W. Sampson, J. Morales, E. Perry, E. Bromage, L. Bromage, and D. Matherly, *Strategic Approaches at the Corridor and Network Level to Minimize Disruption from the Renewal Process*, Strategic Highway Research Program, Renewal Project R11, ISBN: 978-0-309-07023-2, Transportation Research Board, National Research Council, Washington DC, 2013, 150 pp.
5. Matherly, D., J. Mobley, B. Wolshon, J. Renne, R. Thomas, and E. Nichols, *A Transportation Guide for All-Hazards Emergency Evacuation*, Strategic Highway Research Program, Report 740, ISBN: 978-0-309-25901-9, Transportation Research Board, National Research Council, Washington DC, 2013, 193 pp.
6. Wolshon, B., *Transportation's Role in Emergency Evacuation and Reentry*, National Cooperative Highway Research Program, Synthesis 392, ISBN: 978-0-309-098311, Transportation Research Board, National Research Council, Washington DC, 2009, 142 pp.
7. Wolshon, B. and L. Lambert, *Convertible Lanes and Roadways*, National Cooperative Highway Research Program, Synthesis 340, ISBN: 978-0-309-07023-2, Transportation Research Board, National Research Council, Washington DC, 2004, 92 pp.

#### **Book Chapters**

1. Wolshon, B., A. Pande, and J. Riegner, "Design, Operation and Analysis of Multimodal Intersections," Chapter 10, *Traffic Engineering Handbook – Seventh Edition*, ISBN: 978-1-118-76230-1, John Wiley & Sons, Inc., New York, 2016.
2. Wolshon B. and A Pande, "Introduction to the Traffic Engineering Handbook and its Role in an Evolving Practice," Chapter 1, *Traffic Engineering Handbook – Seventh Edition*, ISBN: 978-1-118-76230-1, John Wiley & Sons, Inc., New York, 2016.
3. Wolshon B., D. Matherly, P. Murray-Tuite, "Traffic Management During Planned and Unplanned Emergency Events," Chapter 16, *Traffic Engineering Handbook – Seventh Edition*," in press for 2015 publication by the Institute of Transportation Engineers.

4. Wolshon, B and A. Pande. "Introduction to Traffic Engineering," Chapter 1, *Traffic Engineering Handbook - Seventh Edition*," in development for 2015 publication by the Institute of Transportation Engineers.
5. Wolshon, B. and V.V Dixit. "Planning and Management of Transportation Systems for Evacuation," Chapter 8, *Handbook of Emergency Response: A Human Factors and Systems Engineering Approach*, ISBN: 978-1-4665-1456-0, Taylor & Francis Publishing Inc., New York, 2013.
6. Wolshon, B. and P. Murray-Tuite, "The Role of OR in Emergency Evacuation from Hazmat Incidents," Chapter 5, *Handbook of Operations Research and Management Sciences Models in Hazardous Materials Transportation*, ISBN: 978-1-4614-6793-9, Springer Publishing Inc., New York, 2013.
7. Wolshon, B. Chapter 9, *Handbook of Transportation Engineering – Second Edition*, ISBN: 978-0-07-161492-4, McGraw-Hill Publishing Inc., New York, 2011.
8. Wolshon, B. "Traffic and Flow Characteristics," Chapter 4, *Traffic Engineering Handbook - Sixth Edition*," ISBN: 978-1-933452-34-0, Institute of Transportation Engineers, Washington, DC, 2009.
9. Wolshon, B. "Contraflow for Evacuation Traffic Management," *Encyclopedia of Geographical Information Science*, ISBN: 978-0-387-30858-6, Springer Publishing Inc., New York, 2008.
10. Wolshon, B. "Geometric Design of Streets and Highways," Chapter 13, *Transportation Engineer's Handbook*, ISBN: 978-0-071-39122-1, McGraw-Hill Publishing Inc., New York, 2004.
11. Wolshon, B. "Geometric Design," Chapter 5, *Toolbox on Intersection Safety and Design*, ISBN No: 0-935403-91-4, Institute of Transportation Engineers and the Federal Highway Administration, Washington, DC, 2004.

### **Refereed Journal Articles (In Print or In Press)**

1. Liu, W., G. Corhadi, D. Roden, D. and B. Wolshon, "'Risk Reduction Impact of Connected Vehicle Technology on Regional Hurricane Evacuations: A Simulation Study," (In press) for publication in the *International Journal of Disaster Risk Reduction*.
2. Shojaat, S., Geistefeldt, J., Parr, S., Escobar, L., and B. Wolshon, "Defining Freeway Design Capacity Based on Stochastic Observations," (In press) for publication in the *Transportation Research Record*.
3. Beck, M., R. Goldstein, K. Moen, A.Cohen, and B. Wolshon, "Effects of Talking and Visual Attention Load on Driving Behavior," *Journal of Vision*, Vol. 17, Issue 10, 2017, pp. 971-971.
4. Pande, A., S. Chand, N. Saxena, V. Dixit, J. Loy, B. Wolshon, and J. Kent, "A Preliminary Investigation of the Relationships Between Historical Crashes and Naturalistic Driving," *Accident Analysis and Prevention*, Vol. 101, April 2017, pp. 107-116.
5. Bagloee, S.A., M. Sarvi, B. Wolshon, and V. Dixit, "Identifying Critical Disruption Scenarios and a Global Robustness Index Tailored to Real Life Road Networks," *Transportation Research, Part E: Logistics and Transportation Review*, Vol. 98, February 2017, pp. 60-81.
6. Ericson, J.M., S. A. Parr, M. R. Beck, and B. Wolshon, "Compensating for Failed Attention While Driving," *Transportation Research Part F: Traffic Psychology and Behaviour*, Vol. 45, February 2017, pp. 65-74.



7. Shojaat, S., J. Geistefeldt, S. Parr, C. Wilmot, and B. Wolshon, "Sustained Flow Index: A Stochastic Measure of Freeway Performance," *Transportation Research Record: Journal of Transportation Research Board*, No. 2554, 2016, pp. 158-165.
8. Farhadi, N., S. Parr, K. Mitchell, and B. Wolshon, "Quantifying Resilience of Maritime Transportation Systems Using Nationwide Automatic Identification System Data," *Transportation Research Record: Journal of Transportation Research Board*, No. 2549, 2016, pp. 9-18.
9. Parr, S. and B. Wolshon, "Methodology for Simulating Manual Traffic Control," *Transportation Research Record: Journal of Transportation Research Board*, No. 2562, 2016, pp. 9-17.
10. Parr, S. and B. Wolshon, "Unconventional Intersection Control Strategies for Urban Evacuation," *Transportation Research Record: Journal of Transportation Research Board*, No. 2599, 2016, pp. 52-62.
11. Zhang, Z., S. Parr, H. Jiang, and B. Wolshon, "Optimization Model for Regional Evacuation Transportation Systems Using Macroscopic Productivity Function," *Transportation Research, Part B: Methodological*, Vol. 81, November 2015, pp. 616-630.
12. Zhang, Z., B. Wolshon, and V. Dixit, "Integration of a Cell Transmission Model and Macroscopic Fundamental Diagram: Network Aggregation for Dynamic Traffic Models," submitted in *Transportation Research, Part C: Emerging Technologies*, Vol. 55, June, 2015, pp. 298-309.
13. Rodriguez, J.M., J.A., Codjoe, O. Osman, S. Ishak, and B. Wolshon, "Experimental Modeling of the Effect of Hurricane Wind Forces on Driving Behavior and Vehicle Performance," *Journal of Emergency Management*, March/April 2015, Vol. 13, No. 2, pp. 159-172.
14. Parr, S., V. Dixit, and B. Wolshon, "Selection and Allocation of Manual Traffic Control Points and Personnel During Emergencies," *Journal of Emergency Management*, March/April 2015, Vol. 13, No. 2, pp. 121-133.
15. Naghawi, H. and B. Wolshon, "Operation of Multimodal Transport Systems During Mass Evacuations" *Canadian Journal of Civil Engineering*, Vol. 42, No. 2, 2015, pp 81-88.
16. Dixit, V., A. Pande, J. Loy, K. Spansel, B. Wolshon, "Integrity of Estimates of the Two-Fluid Model and Gender Impacts Using GPS-Based Driving Data," *Transportation Research, Part C: Emerging Technologies*, Vol. 50, January 2015, pp.141-149.
17. Jahangiri, A., P. Murray-Tuite, S.G. Machiani, B. Park, and B. Wolshon, "Modeling and Assessing of Crossing Elimination for No-Notice Evacuations," *Transportation Research Record: Journal of Transportation Research Board*, No. 2459, 2014, pp. 91-100.
18. Zhang, Z., K Spansel, and B. Wolshon, "Effect of Phased Evacuations in Megaregion Highway Networks," *Transportation Research Record: Journal of Transportation Research Board*, No. 2459, 2014, pp. 101-109.
19. Dixit, V. and B. Wolshon, "Evacuation Traffic Dynamics," *Transportation Research, Part C: Emerging Technologies*, December 2014, Vol. 49, pp. 114-125.
20. Zhang, Z., K. Spansel, V. Dixit, and B. Wolshon, "Performance Characteristics of Megaregion Traffic Networks During Mass Evacuations," *International Journal of Transportation*, Vol. 2, No. 3, 2014, pp 53-72.

21. Zhang, Z., K Spansel, and B. Wolshon, "Megaregion Network Simulation for Evacuation Analysis," *Transportation Research Record: Journal of Transportation Research Board*, No. 2397, 2014, pp. 161-170.
22. Machiani, S.G., P. Murray-Tuite, A. Jahangiri, S. Liu, B. Park, Y.C. Chiu, and B. Wolshon, "No-Notice Evacuation Management: Ramp Closures under Varying Budgets and Demand Scenarios," *Transportation Research Record: Journal of Transportation Research Board*, No. 2376, 2013, pp. 27-37.
23. Rayaprolu, P., S. Ishak, and B. Wolshon, "Operational Assessment of Joint and Conventional Lane Merge Configurations for Freeway Work Zones," *Journal of Intelligent Transportation Systems: Technology, Planning, and Operation*, Vol. 17, No. 4, 2013.
24. Li, C.Y., L. Nozick, R. Davidson, N. Brown, D.A. Jones, and B. Wolshon, "Approximate Solution Procedure for Dynamic Traffic Assignment," *ASCE Journal of Transportation Engineering*, August 2013, Vol. 139, No. 8, pp. 822-832.
25. Montz, T., V. Dixit, C. Wilmot, and B. Wolshon, "Assessing the Effectiveness of Flexible Response in Evacuations," *Natural Hazards Review*, Vol. 14, No. 3, pp. 200-210.
26. Murray-Tuite, P. and B. Wolshon, "Assumptions and Processes for the Development of No-Notice Evacuation Scenarios for Transportation Simulations," *International Journal of Mass Emergencies and Disasters*, Vol. 31, No. 1, pp. 78 -97.
27. Murray-Tuite, P. and B. Wolshon, "Evacuation Transportation Modeling: An Overview of Research, Development, and Practice," *Transportation Research, Part C: Emerging Technologies*, February 2013, Vol. 27, No. 3, pp. 25 - 45.
28. Dixit, V., Wilmot, C., and B. Wolshon, "Modeling Risk Attitudes in Evacuation Departure Choices," *Transportation Research Record: Journal of Transportation Research Board*, No. 2312, 2012, pp. 159-163.
29. Naghawi, H. and B. Wolshon, "Performance of Multi-Modal Evacuation Traffic Networks: A Simulation Based Assessment," *ASCE Natural Hazards Review*, August 2012, Vol. 13, No. 3, pp. 196 - 204.
30. Qi, Y., S. Ishak, B. Wolshon, and C. Alecsandru, "Traffic Behavior and Compliance to Truck Restriction Policies on Four Lane Rural Freeways" *Journal of Transportation Safety and Security*, June 2010, Vol. 4, No. 2, pp. 160 - 177.
31. Wolshon, B., and V.V. Dixit, "Traffic Modeling and Simulation for Regional Multimodal Evacuation Analysis," *International Journal of Advanced Intelligence Paradigms*, Vol. 4, No. 1, 2012. pp. 71-82.
32. Dixit, V., Montz, T., and B. Wolshon, "Validation Techniques for Region-Level Microscopic Mass Evacuation Traffic Simulations," *Transportation Research Record: Journal of Transportation Research Board*, No. 2229, 2011, pp. 66-74.
33. Wolshon B. and B. McArdle, "Traffic Impacts and Dispersal Patterns on Secondary and Low Volume Roadways During Regional Evacuations," *ASCE Natural Hazards Review*, February 2011, Vol. 12, No. 1, pp. 19 - 27.
34. Turner, D.A., B. Wolshon, V. Dixit, S. Islam, V. Sisiopiku, M. Anderson, and W. Evans, "Transportation-Oriented Communication with Vulnerable Populations During Major Emergencies," *Transportation Research Record: Journal of Transportation Research Board*, No. 2196, 2010, pp. 159-167.

35. Korkut, M., S. Ishak, and B. Wolshon, "Freeway Truck Lane Restriction and Differential Speed Limits: Crash Analysis and Traffic Characteristics," *Transportation Research Record: Journal of Transportation Research Board*, No. 2194, 2010, pp. 11-20.
36. Idewu, W. and B. Wolshon "The Joint Merge and its Impact on Merging Speeds in Construction Zone Lane Reduction Areas," *Transportation Research Record: Journal of Transportation Research Board*, No. 2169, 2010, pp. 31-39.
37. Walton, F., and B. Wolshon, "Understanding Public Response to Nuclear Power Plant Protective Actions," *Risk, Hazards, and Crisis in Public Policy*, September 2010, Vol. 1, No. 3, pp. 35 - 61.
38. Naghawi, H. and B. Wolshon, "Transit-Based Emergency Evacuation Modeling with Microscopic Simulation," *Journal of Transportation Safety and Security*, June 2010, Vol. 2, No. 2, pp. 184 - 201.
39. L. Lambert and Wolshon B., "Characterization and Comparison of Traffic Flow in Reversible Roadways," *Journal of Advanced Transportation*, April 2010, Vol. 44, No. 2, pp. 113 - 122.
40. Wolshon, B., J. Jones, and F. Walton, and "The Evacuation Tail and Its Effect on Evacuation Decision Making," *Journal of Emergency Management*, January/February 2010, Vol. 8, No. 1, pp. 37 - 46.
41. Sun, X., S. Ishak, C. Alecsandru, B. Wolshon, and B. Huang, "Estimating the Safety Impact of Differential Speed Limit and Truck Lane Restriction on Interstate-10 through Atchafalaya Basin in Louisiana," *Transportation Safety and Security*, September 2009, Vol. 1, No. 3, pp. 169 - 180.
42. Wolshon B., "The Role of Transportation in Evacuation and Reentry: A Survey of Practice," *Journal of Transportation Safety and Security*, September 2009, Vol. 1, No. 3, pp. 224 - 240.
43. Wolshon B., S. Ishak, Y. Qi, M. Korkut, X. Sun, and C. Alecsandru, "Trucker Perceptions and Opinions of Lane Restrictions and Differential Speed Limit Policies on Freeways," *Journal of Transportation Safety and Security*, June 2009, Vol. 1, No. 2, pp. 101 - 120.
44. Chen, S. R., C. S. Cai, and B. Wolshon, "From Normal Operation to Evacuation: Single-Vehicle Safety under Adverse Weather, Topologic and Operational Conditions," *ASCE Natural Hazards Review*, May 2009, Vol. 10, No. 2, pp. 68 - 76.
45. Wolshon B. and B. McArdle, "Temporospatial Analysis of Hurricane Katrina Regional Evacuation Traffic Patterns," *ASCE Journal of Infrastructure Systems*, March 2009, Vol. 15, No. 1, pp. 12 - 20.
46. Boyd, E., B. Wolshon, and I. van Heerden, "Public Management and Evacuation: The New Orleans Experience of Hurricane Katrina," *Public Performance & Management Review*, March 2009, Vol. 32, No.3, pp 437 - 462.
47. Wolshon B., "Empirical Characterization of Mass Evacuation Traffic Flow," *Transportation Research Record 2041 - The Journal of Transportation Research Board*, 2008, pp. 38-48.
48. Wolshon B. and E. Marchive, "Evacuation Planning in the Urban-Wildland Interface: Moving Residential Subdivision Traffic During Wildfires," *ASCE Journal of Urban Planning and Development*, March 2007, Vol. 133, No. 1, pp. 73-81.
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2. Cyra, S. and B. Wolshon, "Traffic Incident Management in a Connected Vehicle World," *Proceedings of the 22nd ITS World Congress*.
3. Robicheaux, B. and Brian Wolshon, "Validation of Highway Safety Manual Calibration Factors and the Influence of Data Detail on Crash Prediction," *2015 Road Safety and Simulation International Conference*.
4. Wolshon, B. Z. Zhang, S. Parr, B. Mitchell, J. Pardue, "Agent-Based Modeling for Evacuation Traffic Analysis in Megaregion Road Networks." 6th International Conference on Ambient Systems, Networks and Technologies, *Procedia Computer Science* Vol. 52 (2015), p. 908-913.
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8. Pande, A., J. Loy, V. Dixit, K. Spansel, and B. Wolshon, "Application of Naturalistic Driving Data for Two-Fluid Model Estimation," *Proceedings of the Road Safety and Simulation International Conference*, Rome, Italy, October 2013.
9. Dixit, V., Wilmot, C., and B. Wolshon, "Modeling Risk Attitudes in Evacuation Departure Choices," *TRB 91st Annual Meeting Compendium of Papers DVD*, Washington, D.C., January 2012.
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17. Idewu, W. and B. Wolshon, "Effect of Vehicle Lane Position on Approaches to Construction Zone Lane-Drop Joint Merges," TRB 90th Annual Meeting Compendium of Papers DVD, Washington, D.C., January 2011.
18. Korkut, M., S. Ishak, and B. Wolshon, "Crash Analysis and Traffic Characteristics under Freeway Truck Lane Restriction and Differential Speed Limit Policies," Preprint CD-ROM of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2010.
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23. "Effect of Truck Lane Restriction and Differential Speed Limit on Traffic Characteristics of Rural Four-Lane Freeways," Preprint CD-ROM of the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2009.
24. "Empirical Characterization of Mass Evacuation Traffic Flow," Preprint CD-ROM of the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008.
25. "Traffic Impacts and Dispersal Patterns on Secondary and Low Volume Roadways During Regional Evacuations." Preprint CD-ROM of the 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January 2007.

26. Mirchandani, P., Y. C. Chiu, and B. Wolshon, "Mathematical Matrix Formulation and Network Conversion for Solving a Large-Scale No-Notice Evacuation," Proceedings of the 2005 Annual Meeting of the Institute for Operations Research and the Management Sciences, San Francisco, CA, November 2005.
27. Wolshon B. and L. Lambert "Design of Reversible Roadway Entry and Termination Points: Comparative Review of the State of Practice," Proceedings of the 3<sup>rd</sup> International Conference on Highway Geometric Design, Chicago, IL, June 2005.
28. Chen, S. R., C. S. Cai, M. L. Levitan, and B. Wolshon, "Determination of Safe Vehicle Driving Speeds on Highways During Hurricane Evacuations," Proceedings of the 4th European & African Conference on Wind Engineering, Prague, Czech Republic, July 2005.
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31. Wolshon B. and L. Lambert "Comparative Review of the Design of Reversible Roadway Entry and Termination Points: State of Practice," Preprint CD-ROM of the 84<sup>th</sup> Annual Transportation Research Board Annual Meeting, Washington, D.C., January 2005.
32. Wolshon, B., "Toolbox on Intersection Safety and Design, Chapter 1 – Geometric Design" Compendium of Technical Papers, Institute of Transportation Engineers - 2004 Technical Conference and Exhibit, Irvine, CA, March 2004.
33. Wolshon, B. and G. Theodoulou. "Modeling and Analyses of Freeway Contraflow to Improve Future Evacuations." Preprint CD-ROM of the 83<sup>rd</sup> Annual Transportation Research Board Annual Meeting, Washington, D.C., January 2004.
34. Dheenadayalu, Y., B. Wolshon, and C. Wilmot. "Analysis of Link Capacity Estimation Methods for Urban Transportation Planning Models." Proceedings of the 9<sup>th</sup> Transportation Research Board Conference on the Application of Transportation Planning Methods, Baton Rouge, LA, April 2003.
35. Wolshon, B. and M. Levitan, "Development of the Louisiana Evacuation Route Hazard Monitoring System." Proceedings of the American Society of Civil Engineers - 7<sup>th</sup> International Conference on Applications of Advanced Technologies in Transportation, Cambridge, MA, August 2002.
36. Wolshon, B. R. Degeyter, and N. Swargam, "Analysis and Predictive Modeling of Road Sign Retroreflectivity Performance." Paper CD-ROM of the 16<sup>th</sup> Biennial Transportation Research Board Symposium on Visibility and Simulation, Iowa City, IA, June 2002.
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### **Professional Periodical Articles**

1. Murray-Tuite, P. B. Wolshon, and D. Matherly, "Evacuation and Emergency Transportation: Techniques and Strategies for Systems Resilience." *TR News*, Transportation Research Board of the National Academies, September-October 2017, No. 311, pp 20-27.
2. Wolshon, B., "New Developments and Shifting Focus in Mass Evacuation Practice and Research." *Natural Hazards Observer*, Natural Hazards Center, University of Colorado, July 2008, Vol. 32, No. 6, pp. 1-3.
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4. Wolshon, B., "Brotherly Advice, Learning from Hurricanes Georges and Ivan, Louisiana Avoids Katrina Massacre." *Roads and Bridges*, March 2006, Vol. 44, No. 3, pp. 22-26.
5. Wolshon, B., "A Way Out: The Emergence of Homeland Security Stresses the Importance of Evacuation Management." *Transportation Management and Engineering*, April 2004, Vol. 9, No. 2, pp. 16-21.
6. Wolshon, B., and B. Hicks-Meehan, "'Emergency Evacuation: Ensuring Safe and Efficient Transportation Out of Endangered Areas.'" *TR News*, Transportation Research Board of the National Academies, January-February 2003, No. 224, pp 3-9.
7. Wolshon, B. and R. Degeyter, "Performance of Traffic Sign Retroreflectivity." *International Municipal Signal Association (IMSA) Journal*, July-August 2000, Vol. 38, No. 4, pp. 30-46.
8. Abernethy B. and B. Wolshon, "Old News: Has HAR (Highway Advisory Radio) Had Its Day?" *Traffic Technology International*, December 2000/January 2001, pp. 40-47.

### **Edited Books, Journals, and Editorial Boards**

1. Co-Editor (with A. Pande) - *Traffic Engineering Handbook - Seventh Edition* ISBN: 978-1-118-76230-1, John Wiley & Sons, Inc., New York, 2016.
2. Guest Editor - Special Edition on "Planning, Modeling, and Evaluating Transportation Systems for Emergency Evacuations" *Journal of Emergency Management*, March/April 2015, Vol. 13, No. 2, 86 pp.
3. Guest Editor – Special Issue on "Interdisciplinary and Multimodal Nature of Evacuations: Nexus of Research and Practice," *Natural Hazards Review*, American Society of Civil Engineers, Vol. 14, No. 3, 61 pp.
4. Guest Editor - Special issue on "Emerging Developments in Evacuation Methods, Planning, and Analysis" *International Journal of Mass Emergencies*, Vol. 31, No. 1, 104 pp.
5. Contributing Editor - "New Horizons," *Virginia Military Institute Journal of Undergraduate Writing*, Vol. 5, No. 1, April, 2011, 125 pp.
6. Guest Editor - Special Edition "Emergency Evacuation Modeling" of the *Journal of Transportation Safety and Security*, Vol. 2, No. 2, 116 pp.



7. Editorial Board - *Journal of Advanced Transportation*, 2009 – Present.
8. Editorial Board - *Journal of Transportation Safety and Security*
  - Area Editor for “*Highway Transportation System Security & Emergency Response*,” 2008 – Present.
9. Editorial Board - *Journal of Urban Planning and Development*, American Society of Civil Engineers
10. Guest Editor - Special Edition “Emergency Transportation Preparedness, Management, and Response in Urban Planning and Development” of the *Journal of Urban Planning and Development*, American Society of Civil Engineers, Vol. 133, No. 1, 89 pp.

### **Published Editorials**

1. Wolshon, B., J. Renne, and B. Mitchell, “Planning, Modeling, and Evaluating Transportation Systems for Emergency Evacuations” *Journal of Emergency Management*, March/April 2015, Vol. 13, No. 2, pp. 85-86
2. Wolshon, B., V. Dixit, and J. Renne, “The Interdisciplinary and Multimodal Nature of Evacuations: The Nexus of Research and Practice,” *Natural Hazards Review*, Vol. 14, No. 3, pp. 149 –150.
3. Wolshon, B., and A Donahue, “Emerging Developments in Evacuation Methods, Planning, and Analysis,” *International Journal of Mass Emergencies and Disasters*, Vol. 31, No. 1, pp. 1 –3.
4. Wolshon, B. and V. Dixit, “State of the Art Modeling and Analysis for Evacuation Planning and Operations,” *Journal of Transportation Safety and Security*, June 2010, Vol. 2, No. 2, pp. 85 - 87.
5. Wolshon, B., “Emergency Transportation Preparedness, Management, and Response in Urban Planning and Development,” *ASCE Journal of Urban Planning and Development – Special Emergency Transportation Issue*, March 2007, Vol. 133, No. 1, pp. 1-2.

### **Published Book Reviews**

Wolshon, B. "Book Review: Geometric Design Projects for Highways, An Introduction - Second Edition," *Journal of Transportation Engineering*, American Society of Civil Engineers, Vol. 127, No. 4, July/August, p. 356.

### **Technical Reports**

1. Wolshon, B. and A. Pande, “Critical Review of Methodologies for Evaluating In-Use Safety Performance of Guardrail End Treatments and Other Roadside Treatments,” Committee on In-Service Performance of Guardrail End Treatments, Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine, Washington, DC, September 2016.
2. Kwasinski, A., J. Trainor, B. Wolshon, and F. Lavelle, “A Conceptual Framework for Assessing Resilience at the Community Scale,” National Institute of Standards and Technology, U.S. Department of Commerce, NIST Report No. NIST-GCR-16-001, Gaithersburg, MD, January 2016. [Available online at: <http://nvlpubs.nist.gov/nistpubs/gcr/2016/NIST.GCR.16-001.pdf>]

3. Lavelle, F.M., L. A. Ritchie, A. Kwasinski, and B. Wolshon, "Critical Assessment of Existing Methodologies for Measuring or Representing Community Resilience of Social and Physical Systems," National Institute of Standards and Technology, U.S. Department of Commerce, NIST Report No. NIST-GCR-15-1010, Gaithersburg, MD, December 2015. [Available online at: <http://nvlpubs.nist.gov/nistpubs/gcr/2015/NIST.GCR.15-1010.pdf>]
4. Cordahi, G., D. Roden, B. Wolshon, W. Yin, "Emergency Communications for Evacuation (EVAC) in New Orleans Impact Assessment Report," U.S. Department of Transportation, USDOT Report No. FHWA-JPO-15-204, Washington, DC, May 2015.
5. Robicheaux, B. and B. Wolshon, "Calibration of the Louisiana Highway Safety Manual," Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.14/537, Baton Rouge, Louisiana, July 2014, 47 pp.
6. Wolshon, B., S. Ishak, W. Idewu, "Design of Lane Merges at Rural Freeway Construction Work Zones," Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.11/484, Baton Rouge, Louisiana, September, 2011. 60 pp.
7. Wolshon, B., G. Theodoulou, Y.Y. Lim, "Modeling Hurricane Evacuation Traffic – Evaluation of Freeway Contraflow Evacuation Initiation and Termination Point Configurations," Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.10/400, Baton Rouge, Louisiana, June, 2010. 59 pp.
8. B. Wolshon, et al., "Application of TRANSIMS for the Multimodal Microscale Simulation of the New Orleans Emergency Evacuation Plan - Draft Final Report," Federal Highway Administration, United States Department of Transportation, Washington, DC, 2009.
9. Ishak, S., B. Wolshon, X. Sun, M. Korkut, and Y. Qi. "Evaluation of the Traffic Safety Benefits of a Lower Speed Limit and Restriction of Trucks to Use of Right Lane Only on I-10 over the Atchafalaya Basin." Report Number FHWA-LA-08-435. Louisiana Department of Transportation and Development, 2009.
10. Jones, J.A., F. Walton, and B. Wolshon, "Criteria for the Development of Evacuation Time Estimate Studies, U.S. Nuclear Regulatory Commission Division of Preparedness and Response, NRC Report No. NUREG/CR-7002, Sandia National Laboratories Report No. SAND2010-0016P, Washington, DC, 2010. 66 pp.
11. Ishak, S., B. Wolshon, C. Schwehm, P. Rayaprolu, B. Sridhar, "Establishing an Intelligent Transportation Systems (ITS) Lab at LTRC," Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.08/456, Baton Rouge, Louisiana, May, 2008. 80 pp.
12. Jones, J.A., F. Walton, J.D. Smith, and B. Wolshon, "Assessment of Emergency Response Planning and Implementation in the Aftermath of Major Natural Disasters and Technological Accidents," U.S. Nuclear Regulatory Commission Division of Preparedness and Response, NRC Report No. NUREG/CR-6981, Sandia National Laboratories Report No. SAND2008-1776P, Washington, DC, October 2008.
13. Co-Author of: "Managed Lanes Resource Toolbox," Federal Highway Administration, United States Department of Transportation and Development, Report No. FHWA-HOP-078-030, Washington, D.C., 2007.
14. Wilmot, C., H. Zong, H. Fu, A. Jayadevan, H. Schneider, B. Wolshon, and X. Sun, "Statewide Traffic Safety Stud Phase I: Review of Current Traffic Safety Research, Practice, Analytical

Procedures, and Databases,” Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.03/399, Baton Rouge, Louisiana, May, 2005. 192 pp.

15. Wolshon, B. “Analysis of Reverse Flow Traffic Operations Phase I: Urban Sporting Event Measurement and Evaluation,” Final Project Report, Science Applications International Corporation, Vienna, Virginia, October, 2003. 43 pp.
16. Wolshon, B. “Louisiana Traffic Sign Inventory System.” Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LADOTD/381, Baton Rouge, Louisiana, September, 2003. 57 pp.
17. Levitan, M., B. Wolshon, and C. Schwehm, "Total (THCM) for Real Time Traffic Management" Department of Transportation and Development, LTRC Project Report No. 00-1TIRE, State Project No. 736-99-0801, August 2002, 173 pp.
18. Wolshon, B., E. Urbina, and M. Levitan, “National Review of Hurricane Evacuation Plans and Policies,” LSU Hurricane Center Technical Report, January 2002
19. Wolshon, B. and C. Schwehm. “Implementation of Highway Advisory Radio (HAR) for Construction Zones in Louisiana.” Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Report No. FHWA/LA.00/339, Baton Rouge, Louisiana, 1999.
20. W. Taylor and B. Wolshon, “A Before and After Study of Delay at Selected Intersections in South Lyon: FAST-TRAC Phase III Deliverable #9 - Comparison of SCATS Control Versus a Simulated Control Algorithm - Part 2.” University of Michigan Intelligent Transportation Systems Research Laboratory Report No. EECS-ITS LAB-FT98-082.
21. W. Taylor and B. Wolshon, “A Before and After Study of Delay at Selected Intersections in South Lyon: FAST-TRAC Phase III Deliverable #9 - Comparison of SCATS Control Versus a Simulated Control Algorithm - Part 1.” University of Michigan Intelligent Transportation Systems Research Laboratory Report No. EECS-ITS LAB-FT98-081.
22. Wolshon, B. “Evaluation of Cross-Section Design User Manual and Computer Program.” Federal Highway Administration, McLean, Virginia and the McTrans Center for Microcomputers in Transportation, Gainesville, Florida, 1990.

## **Sponsored Research**

### **Awarded Projects**

1. B. Wolshon (co-PI and LSU, PI) with the University of Texas, “Cooperative Mobility for Competitive Megaregions (CM2),” United States Department of Transportation - University Transportation Centers Program, 60 months (five year, annual continuing grant), LSU annual portion \$255,000/yr., LSU project total amount \$1,275,000.
2. B. Wolshon (co-PI and LSU, PI) with the University of Arkansas, “Maritime & Multimodal Transportation Research and Education Center (MarTREC),” United States Department of Transportation - University Transportation Centers Program, 60 months (five year, annual continuing grant), LSU annual portion \$125,000/yr., LSU project total amount \$625,000.
3. B. Wolshon (Principal Investigator), “Enhancing Guidance for Evacuation Time Estimate Studies,” United States Nuclear Regulatory Commission, 36 months, total amount \$940,914.

4. Dhanak, M. (Florida Atlantic University), et al., including B. Wolshon (co-Principal Investigator) and S. Parr, "A Smart Port Resiliency Assessment and Planning Tool," Department of Homeland Security, Center of Excellence for Marine Research, 24 months, FAU total sub-project amount \$500,000, LSU total amount project \$150,000.
5. Wolshon, B., (Principal Investigator), "National Center for Strategic Transportation Policies, Investments and Decisions," Research and Technology Administration, United States Department of Transportation, 12 months (one year continuation of original grant), LSU total project amount \$227,000 (total project amount \$2,804,400).
6. Wolshon, B., (Principal Investigator), "Maritime & Multimodal Transportation Research and Education Center (MarTREC)." University Transportation Center," Research and Technology Administration, United States Department of Transportation, 12 months (one year continuation of original grant), LSU total project amount \$350,550 (total project amount ~\$2,804,400).
7. Mitchell, B. and Wolshon, B. (co-Principal Investigator), "Development of Emergency Management Decision Support Tools – Debris Removal Modeling," Louisiana Department of Transportation and Development, 24 months, total amount \$460,020.
8. Wolshon, B., (Principal Investigator), "National Center for Strategic Transportation Policies, Investments and Decisions," Research and Technology Administration, United States Department of Transportation, 12 months (with four year recurring duration), LSU total project amount \$230,000 (total project amount \$2,828,000).
1. Wolshon, B., (Principal Investigator), "Maritime & Multimodal Transportation Center (MMTC). University Transportation Center," Research and Technology Administration, United States Department of Transportation, 24 months, LSU total project amount \$353,664.
2. Wolshon, B. (Principal Investigator) and A. Pande, Editorial Services for the "Traffic Engineering Handbook, 7th Edition," Institute of Transportation, 12 months, total amount \$50,000.
3. Wolshon, B., (Subcontract Principal Investigator), "Center for Evacuation and Transportation Resiliency," Research and Technology Administration, United States Department of Transportation, 24 months, total amount \$1,916,400 (original grant was 12 months for \$1,000,000, with a 12 month extension for an additional \$916,400)
4. Wolshon, B. (Principal Investigator), "Calibration of the Louisiana Highway Safety Manual," Louisiana Transportation Research Center, 18 months, total amount \$150,000 (LTRC portion \$25,500/LSU UTC portion \$124,500).
5. Wolshon, B. (co-Principal Investigator), "A Guide to Regional Transportation Planning for Disasters, Emergencies, and Significant Events," National Academies, Transportation Research Board/National Cooperative Highway Research Program (subcontract through The Louis-Berger Group), 15 months, \$250,000.
6. Ishak, S., V. Dixit, and B. Wolshon (co-Principal Investigator), "Driving Simulator to Study Human Behavior and Improve Traffic Operation and Safety in Louisiana," Louisiana Board of Regents, March 2010 – February 2011 – June 2002, total amount \$182,060.
7. Louis Berger Group Inc, et al., including B. Wolshon (co-Principal Investigator), "A Transportation Guide for All-Hazards Emergency Evacuation," National Academies,

- Transportation Research Board/National Cooperative Highway Research Program, March 2010 – October 2011, \$300,000.
8. Louis Berger Group Inc, et al., including B. Wolshon (co-Principal Investigator), “Strategic Approaches at the Corridor and Network Level to Minimize Disruption from the Renewal Process,” National Academies, Transportation Research Board/National Cooperative Highway Research Program, November 2009 – October 2012, \$1,500,000.
  9. Hamdar, S., V. Dixit, B. Wolshon (co-Principal Investigator), and R. Pande, “New Methods for Measuring, Evaluating and Predicting the Impact of Road Infrastructure Systems on Driver Behavior,” National Science Foundation, 36 months, total amount, \$250,000.
  10. Davidson, R., R. Blaton, N. Dash, R. Luettich, L. Nozick, and B. Wolshon (Named Investigator), “DRU: Integrated Optimization of Evacuation and Sheltering for Hurricanes” National Science Foundation, 72 months, total amount \$750,000.
  11. Wolshon, B., (Principal Investigator), “Center for Evacuation and Resilient Transportation,” University Transportation Center, United States Department of Transportation, 60 months, total amount \$4,000,000.
  12. Wolshon, B., (Principal Investigator) and C. Wilmot, D. Shaw, B. Stich, B. Cooke and C. Lewis, “Evacuation Models and Dynamics,” Department of Homeland Security, 72 months, total amount \$833,326.
  13. Wolshon, B. (Principal Investigator) and S. Ishak and “Safety and Operational Assessment of Unconventional Lane Merges in Freeway Work Zones,” Louisiana Transportation Research Center, November 2007 – October 2009, total amount \$140,000.
  14. Wolshon, B. (Principal Investigator), “Synthesis of Highway Practice 39-05, Emergency Evacuation and Repopulation,” National Academies, Transportation Research Board/National Cooperative Highway Research Program, November 2007 – November 2008, \$30,000.
  15. S. Ishak and Wolshon, B. (co-Principal Investigator), “Development of an ITS Research Laboratory at the Louisiana Transportation Research Center,” Louisiana Transportation Research Center, July 2007 – June 2008, total amount \$50,000.
  16. J. Renne, T. Sanchez, B. Wolshon (co-Principal Investigator), S. Laska, T. Litman, J. Espinosa, and J. Grimshaw, “National Study on Car-less and Special Needs Evacuation Planning,” Federal Transit Administration, United States Department of Transportation, January 2007 – December 2010, total amount \$555,307.
  17. Wolshon, B. (Principal Investigator), “Application of TRANSIMS for the Multimodal Microscale Simulation of the New Orleans Emergency Evacuation Plan,” Federal Highway Administration, Office of Transportation Operations, October 2006 – March 2008, total amount \$300,000.
  18. S. Ishak, Wolshon, B. (co-Principal Investigator) and X. Sun, “Evaluation Of The Traffic Safety Benefits Of A Lower Speed Limit And Restriction Of Trucks To Use Of Right Lane Only On I-10 Over The Atchafalaya Basin,” Louisiana Transportation Research Center, January 2005 – December 2007, total amount \$330,000.
  19. C. Wilmot, Wolshon, B. (Project Investigator). “Statewide Traffic Safety Study – Phase 1,” Louisiana Transportation Research Center, 48 months, total amount \$100,000.

20. Wolshon, B. (Principal Investigator), "Assessing a New Evacuation Technique: Measurement of Contraflow Evacuation Traffic Stream Characteristics," University of Colorado – Natural Hazards Center, 1 month, total amount \$3,500.
21. C. Wilmot and Wolshon, B. (co-Principal Investigator), and Sherif Ishak. "Modeling Hurricane Evacuation Traffic," Louisiana Transportation Research Center, 24 months, total amount \$170,322.
22. Wolshon, B. (Principal Investigator), "Synthesis of Highway Practice 34-06, Convertible Roadway Lane Practices," National Academies, Transportation Research Board/National Cooperative Highway Research Program, December 2002 – December 2003, 12 months, \$25,000.
23. K. Robbins with 5 co-Principal Investigators, including Wolshon, B., "Hurricane Delaney Exercise," Louisiana Office of Emergency Preparedness, June 2002, total amount \$5,000.
24. Wolshon, B. (Principal Investigator), "Analysis of Reverse Flow Traffic Operations, Phase I: Urban Sporting Event Measurement and Evaluation," Federal Highway Administration, Office of Transportation Operations (through SAIC, Inc.), April –September 2002, total amount \$20,000.
25. Wolshon, B. (Principal Investigator), "Development of a Guide on Current National Hurricane Evacuation Practices," Federal Highway Administration, Office of Transportation Operations (through SAIC, Inc.), January – April 2002, total amount \$6,700.
26. I. van Heerden with 17 co-Principal Investigators, including Wolshon, B., "Assessment and Remediation of Public Health Impacts Due to Hurricanes and Major Flooding Events," Louisiana Board of Regents, January 2002 – December 2006, total amount \$3,685,590.
27. Wolshon, B. (Principal Investigator), "Louisiana Traffic Sign Inventory and Management System," Louisiana Transportation Research Center, January 2001 – July 2002, total amount \$99,982.
28. M. Levitan, D. Fratta, W. Moe, I. van Heerden, and B. Wolshon (co-Principal Investigator), "Hurricane Engineering: A New Curriculum for a Planet at Risk," National Science Foundation, August 2000 – July 2003, total amount \$500,000.
29. M. Levitan, Wolshon, B. (co-Principal Investigator), "Total Highway Condition Monitoring (THCM) System for Real-Time Traffic Management," Louisiana Transportation Research Center, January 1999 – December 2000, total amount \$20,000.
30. Wolshon, B. (Principal Investigator) and C. Schwehm, "Development of an Advanced Transportation Systems Laboratory at Louisiana State University," Louisiana Board of Regents, July 1999 – June 2002, total amount \$173,655.
31. Wolshon, B. (Principal Investigator) and C. Schwehm, "Implementation of a Highway Advisory Radio (HAR) System for Construction Zones in Baton Rouge," Louisiana Transportation Research Center, March 1997 – December 1999, total amount \$169,901.

## **Expert Consulting**

A cross-section of projects includes:

1. Tampa Hillsborough Expressway Authority (THEA) through American Consulting Engineering, emergency evacuation transportation modeling services, 2016.
2. Peter Mueller, et al., v. Allstate Insurance Co., et al (City of New Orleans), Civil District Court of Orleans Parish, Case No. 09-13291, expert testimony, Attorney: Shawn Lindsay, 2015.

(defense side)

3. Angelina Legoria, et al vs. James Construction Group, LLC, et al (Mojeski and Masters Engineering Inc.), 19th JDC No.: 628-683, Div. "24," expert testimony, Attorney: Scott Hedlund, 2015. (defense side)
4. Mary Ardillo v. Trystan Eschete, et al. 21st JDC, Tangipahoa Parish, Louisiana, Suit No.: 2014-00007722, expert testimony, Attorney: Chris Moody, 2015. (plaintiff side)
5. James Geduldick v. Amanda Fagane, et al, Docket No. 127,673, 21st JDC, Livingston Parish, Louisiana, expert testimony, Attorney: Gregory Rozas, 2015. (plaintiff side)
6. Louis Berger Group Inc., emergency evacuation transportation services for the development of Transit Resiliency Guide, Transit Cooperative Research Program Project No. A-41, 2015 – 2016.
7. Joshua L. Volter v. Arch Insurance Company, MMJ Industries, Inc., and Timothy Jenkins, 19th Judicial District Court, Division 22, East Baton Rouge Parish, Louisiana, Case No.: 621343, expert testimony, Attorney: Jonathan Walsh, 2014. (defense side)
8. Gilmer v. Croussore, et al, Civil Action No. 3:13-CV-00345, United States District Court, Middle District of Louisiana, expert testimony, Attorney: Jonathan Walsh, 2014. (defense side)
9. Jessica Hope Browne, et al v. Louisiana DOTD, Docket #40,050, 18th JDC, Parish of West Baton Rouge. Attorney: Frank Tomeny Case 2013 (plaintiff side)
10. Tammy Chauvin, et al v. Louisiana DOTD, Docket #40,034, 18th JDC, Parish of West Baton Rouge. Attorney: Frank Tomeny Case 2013 (plaintiff side)
11. Carlos K. Edwards v GEICO Indemnity Company, Et Al. Case No. 39131, Division A, 18<sup>th</sup> J.D.C., Parish of West Baton Rouge. Attorney: Phillip Rew, 2011. (defense side).
12. Post, Buckley, Schuh, and Jernigan, Inc. Tallahassee, FL. New York, New Jersey, Connecticut, Pennsylvania Catastrophic Planning Team, "Best Practice Tools for Evacuation Plans," evacuation transportation services, 2010.
13. Davey Kelley v. Dixie Electronic Membership Corporation, 19<sup>th</sup> J.D.C., No. 534, 200, Section 27, Attorney: Rusty Bianca, 2010. (plaintiff side).
14. Corey Banks v. Crescent City Connection Authority, et al., C.D.C. for the Parish of Orleans, Docket No. 2006-2728, Attorney: Rusty Bianca, 2010. (plaintiff side).
15. Sandia National Laboratories Albuquerque, NM. Nuclear Regulatory Commission – Watts Bar Nuclear Power Plant Evacuation Time Estimate Report Traffic Modeling Review, traffic analysis services, 2010.
16. Louis Berger Group Inc., emergency evacuation transportation services for the development of *A Transportation Guide for All-Hazards Emergency Evacuation*, NCHRP Project No. 20-59(32), 2010 – 2011.
17. Thomas Watts v. State Farm Insurance, U.S. Agencies Insurance, et al., Tangipahoa Parish Suit No. 2009-0002475, 2<sup>1st</sup> Judicial District Court, Division "A," expert consultant, Attorney: Lindsey Leavoy, 2009. (plaintiff side).
18. Jessie Knight et al. v. Peter Voltolina, III et al., Washington Parish Case No. 86,264, 22<sup>nd</sup> Judicial District Court, Division "E," expert testimony, Attorney: Delbert Talley, 2009. (plaintiff side).
19. M. Matt Durand, L.L.C. v. Denton-James L.L.C. et al, Docket No.: 547,608, 19<sup>th</sup> Judicial District Court, Division 25, expert testimony, Attorney: Tim Strohschein, 2008. (defense side)

- Louisiana Department of Transportation and Development)
20. J. and T. Croswell v. Motel Six L.P., et al, Civil Action No. 07-640, Section B, Mag. Div. I, United States District Court, Middle District of Louisiana, expert testimony, Attorney: Jonathan Walsh, 2008. (defense side – settled prior to trial)
  21. Jennie M. Alexander v. Parish of St. John the Baptist, et al. Docket No. 50,827, 40<sup>th</sup> Judicial District Court for the Parish of St. John the Baptist, expert testimony, Attorney: Ashley Robinson, J.D., 2008-2009. (plaintiff side)
  22. Louisiana Department of Transportation and Development v. Riser & Son Funeral Home. et al, Docket No.: XXX,XXX, XX<sup>st</sup> Judicial District Court, Division “X,” expert testimony, Attorney: Jennifer Johnson, 2008. (plaintiff side)
  23. Florida Department of Transportation, Miami, FL. Evacuation traffic planning and analysis services, 2008.
  24. Melchor Rodriguez, et al v. State Farm Insurance Co. et al, Docket No.: 107,079, 21<sup>st</sup> Judicial District Court, Division “D,” expert testimony, Attorney: Jenel G. Secrease, 2008. (plaintiff side)
  25. Sandia National Laboratories Albuquerque, NM. Nuclear Regulatory Commission - Evacuation Time Estimate Guidance Document Development, traffic analysis services, 2008.
  26. ARCADIS Inc., Baton Rouge, LA. Traffic analysis services – El Camino Corridor Impact Analysis, 2008 - 2009.
  27. Howard, Needles, Tammen, and Bergendoff (HNTB) Engineers, Inc., Wisconsin Department of Transportation emergency evacuation traffic services, Milwaukee, WI, 2009
  28. Sandia National Laboratories Albuquerque, NM. Evacuation traffic modeling and analysis services, State of the Art Reactor Consequences Analyses (SOARCA) Project, 2007.
  29. Derek Barnes v. Kyle Keaton, Louisiana Farm Bureau Insurance, and US Agencies Insurance Company, Suit No.: 2005-001589, Division E, 21<sup>st</sup> Judicial District Court, expert testimony, Attorney: Andrew W. Ralston, J.D., 2007. (defense side – settled prior to trial)
  30. Roger Warm, et al. v. David Jester and the State Farm Insurance Co. Docket No.: 523,553 “27,” 19<sup>th</sup> Judicial District Court, expert testimony, Attorney: Henry Terhoeve, J.D., 2005. (defense side)
  31. Gulf Engineers and Consultants (GEC), Inc., evacuation traffic modeling and analysis services, 2006.
  32. Science Applications International Corporation (SAIC) Inc., “Managed Lanes Resource Toolbox,” contract work for Federal Highway Administration, Office of Operations, 2005.
  33. Wayne Kramer vs. Mary Duval, et al., Suit No.: 93-03008, Division “B,” 21<sup>st</sup> Judicial District Court, expert testimony, Attorneys: Byard Edward and Henry Terhoeve, J.D., 2005. (plaintiff side – settled prior to trial)
  34. Gulf Engineers and Consultants (GEC), Inc., systems engineering review of intelligent transportation infrastructure in Louisiana, 2004 - 2005.
  35. Institute of Transportation Engineers, Subject Matter Expert – Geometric Design, Traffic Safety, and Work Zone Traffic Control, 2005.
  36. Urban Systems, Inc., evacuation traffic modeling and various other traffic analysis and geometric and guardrail design services, 2004 - 2007.
  37. ABMB Engineers, Inc., evacuation traffic modeling and analysis services, 2004.
  38. William Scott Chidester, etc vs. Michael Alan Suffrin, et al., Docket No.: 491,469, Division



- "F," 19<sup>th</sup> Judicial District Court, expert testimony, Attorney: Alice Estill, J.D., 2004 - 2005. (defense side)
39. McLin and Associates, Inc., traffic engineering and analysis services (traffic impact analyses Ascension Parish), 2004 to present.
  40. Lambert Engineers, LLC, roadway design and traffic engineering services (Jefferson Highway/Corporate Boulevard intersection), 2003 - 2004.
  41. Institute of Transportation Engineers, book chapter author (*ITE Toolbox on Intersection Design and Safety*), 2003-2004.
  42. William Kohlman Meyers vs. Dale E. Roberts et al, 21<sup>st</sup> Judicial District Court, Parish of Tangipahoa, State of Louisiana, Suit No.: 2001-002271, Division "B," Attorney: Byard Edward, J.D. (plaintiff side)
  43. Howard, Needles, Tammen, and Bergendoff (HNTB) Engineers, Inc., traffic modeling and analysis services, 2003.
  44. Romanowski et al. vs. The Travelers Insurance Co. et al., Docket No.: 454,177, Division "D," 19<sup>th</sup> Judicial District Court, expert testimony, Attorney: John Samaha, 2000. (plaintiff side – settled prior to trial)
  45. ABMB Engineers, Inc., traffic modeling and analysis services, 1999.