

William J. Davis, Ph.D., P.E. (AL)Phone (843) 953-7687 E-mail jeff.davis@citadel.edu**Education**

B.S. Civil Engineering, University of Alabama, 1981

M.S. Civil Engineering, Auburn University, 1987

Ph.D. Civil Engineering, Georgia Institute of Technology, 1997. Dissertation: "Urban Arterial Roadway Corridors: An Evaluation of Infrastructure and Land Use Relationships"

Experience Summary

Professional Engineer with 35 years of experience in transportation planning, traffic engineering, highway design, and urban development through the following engineering and academic positions:

The Citadel, Head, Civil, Environmental & Construction Engineering, Charleston, SC, 2018- present

The Citadel, Professor, Charleston, SC, 1997-2017

Clemson University, Adjunct Professor, Charleston, SC, 1998-2015

Georgia Institute of Technology, Teaching Instructor, Atlanta, GA, 1992-1997

Transportation Planning Consultant, Charleston, SC, 1998-Present

Stone & Webster Engineering, Project Manager, Atlanta, GA, 1990-1996

JHK & Associates, Project Manager, San Diego, CA, 1988-1990

Hensley-Schmidt Engineers, Project Engineer, Orlando, FL, 1984-1988

Watt & Estes Engineering, Design Engineer, Chattanooga, TN, 1983-1984

Auburn University, Teaching/Research Assistant, Auburn, AL, 1981-1983

Fluor-Daniel Construction Co., Field Engineer, SC, NC, TN, 1977-1981 (summers)

Academic Appointments**The Citadel, Military College of South Carolina, Charleston, SC, 2018-present**

D. Graham Copeland Professor of Civil Engineering and Head, Civil, and Environmental Engineering, Program Director, Construction Engineering, responsible for department administration, curriculum, assessment, facilities, educational laboratories, endowments, fellowships, research grants, personnel, faculty development, adjunct professors, graduate program, student enrichment, advising, scheduling, planning, advisory boards, and strategic advancement.

The Citadel, Military College of South Carolina, Charleston, SC, 1997-2017

Assistant ('97-'01), Associate ('02-'09) and Professor ('10-'17) in Civil & Environmental Engineering, institutional responsibilities include undergraduate student development, course curriculum, assessment, scholarship, and faculty service. Teaching interests center on transportation planning, urban development, traffic engineering, roadway design, highway safety, public works infrastructure, and active living by design.

Clemson University, Charleston, SC, 1998-2015

Serve as Adjunct Professor in the Department of Civil Engineering for collaborative research efforts and educational pursuits in the field of transportation, traffic operations, and highway engineering.

Georgia Institute of Technology, Atlanta, GA, 1992-1997

Served as instructor in the School of Civil & Environmental Engineering and taught transportation engineering courses, responsible for curriculum development, projects and course administration. Served as Research and Teaching Assistant for transportation engineering courses and projects.

Professional Licensure and Certifications

Institutional Review Board Certification, National Cancer Institute, Aug. 15, 2006

Professional Engineer, Georgia 1991, No. 19295 (in active)

Professional Engineer, Alabama 1987, No. 16530

Professional Experience

Transportation Planning Consultant, Charleston, SC, 1998-present

Worked with various organizations and consulting firms, representative projects include:

- *Summary of South Atlantic Container Terminals: Capacity, Growth and Expansion*, container terminal expansion study on Caper Fear River, NC for non-profit organization, No Port Southport, Dec. 2010.
- *Omni Commerce Park*, prepared traffic impact study and obtained SC DOT encroachment permit in conjunction with Berenyi Inc. for a 90-acre industrial park located in Berkeley Co., Jan. 2008.
- *Bohicket Road Corridor Analysis*, prepared traffic analysis and safety study for Berkeley-Charleston-Dorchester COG on 10.5-mile section of Bohicket Road, Johns Island, Sept. 2006.
- *Seabrook Island Access Study*, retained by Seabrook Island Planning Commission to evaluate site access, traffic circulation, and network capacity for 450,000 S.F. Freshfields Village, Sept. 2002.
- *US 17 Corridor Study*, Georgetown County, developed Bicycle and Pedestrian improvement needs along 23-mile corridor, long-range corridor improvement study, Day Wilburn Associates, June 2002.
- *Patriots Point Boulevard Improvements*, Traffic projections, traffic model, capacity analysis and developed intersection improvements, HNTB Corp., Mt. Pleasant, SC July 2000.
- *US 17 Interchange Study*, developed conceptual master plan study for \$100 m interchange improvement plan for 4.5-mile section of US 17 in Mt. Pleasant connecting with the new Cooper River Bridge, in conjunction with HNTB Corp., Dec. 2002.
- *Charleston International Airport - Parking Garage Analysis*, prepared analysis of long-range parking demand for seasonal peak periods and predicted future air passenger growth at the Charleston International Airport. Work involved queuing analysis, parking circulation and forecasting methods, conducted in conjunction with HNTB Corp., 1999.

Stone & Webster Engineering Corp., Atlanta, GA, 1990-1996

Project manager responsible for contract negotiation, project management and engineering design for transportation and civil/site projects in a four-state region. Representative projects include:

- 9-mile (15km) roadway widening and realignment of US 341, involving right-of way acquisition, bridge design and use of metric design criteria, Jesup, GA, Georgia DOT.
- Transportation planning, roadway access and preliminary design study for a 7,000-acre military base conversion project in Chattanooga, TN, US Department of Defense.
- Engineering design, plan preparation and permits activities for site improvements and construction of two 5-acre settling ponds at the Sequoyah Nuclear Plant for TVA.
- Site development plans, specifications and estimates (PS&E) for numerous industrial sites including United Parcel Service air-hub facilities located throughout Eastern US.
- Preliminary engineering analysis and operational evaluation for a 2.5-mile fixed-route transit circulator located in downtown Chattanooga, TN.

JHK & Associates, Inc., San Diego, CA, 1988-1990

Project manager responsible for marketing, proposal preparation, contract pricing, project management and engineering production on a wide range of transportation projects including:

- Managed road improvement project involving lane additions, intersection improvements, and traffic signal coordination on Fletcher Parkway for the City of La Mesa, CA, awarded 1992 Transportation Project of the year by the American Public Works Association.
- Coordinated construction, hardware integration and utility service point connections for a traffic control system involving 91 signalized intersections in Chula Vista, CA.
- Traffic operations analysis for truck inspection facilities at Otay Mesa International Border Crossing in San Diego, CA, for US Government Service Administration (GSA).
- Traffic engineering, parking and circulation study for major improvements including a multi-level parking structure at Tijuana International Airport in North Baja, Mexico.

- Managed design studies and PS&E preparation of 15 public works/transportation improvement projects for the City of Escondido, CA, under a task order agreement.

Hensley-Schmidt Engineers, Orlando, FL, 1984 - 1988

Project engineer responsible for client coordination, project design, and engineering production on numerous highway design, traffic engineering and site development projects including:

- Roadway, drainage and traffic plans for a 2.2-mile urban roadway widening and realignment project of 12th Avenue in Pensacola, FL, prepared for the Florida DOT.
- Traffic analysis and intersection design for off-site improvements constructed in conjunction with a 1 million SF mall (Town Center at Cobb) located in Marietta, GA.
- Performed traffic impact analysis for site development projects, including office parks, shopping centers and multi-use developments in Atlanta, GA and Orlando, FL.
- Traffic engineering analysis and signing/markings plans for a major freeway interchange improvement project along I-26/I-20/I-126 in Columbia, SC, prepared for South Carolina DOT.
- Feasibility and traffic study to evaluate preliminary design of the Buckhead Loop Connector and GA 400 interchange conducted for the Atlanta Regional Commission.
- Evaluated traffic operations, site access, parking improvements and traffic control for a 16,500-employee plant of the Lockheed Martin Corp., located in Marietta, GA.

Watt & Estes Engineering, Chattanooga, TN, 1983 - 1984

Design engineer responsible for design and analysis on various civil engineering projects including:

- Traffic signalization and pavement marking plans for road improvement and urban renewal project located along Market St. (US 64) for the City of Chattanooga, TN.
- Preparation of a location and environmental impact statement for a 7-mile section of new by-pass roadway (US 264) in Greenville, NC, prepared for the North Carolina DOT.
- 16-intersection closed loop signal system on US 41 in East Ridge, TN, Tennessee DOT.
- Traffic operation analysis for 15-miles of I-65/I-59, Birmingham, AL, Alabama DOT.

Honors and Awards

Excellence in Transportation Engineering Award, District 5, Institute of Transportation Engineers, for outstanding contributions to education of future leaders in transportation engineering, 2017

National High Value Research Award, Wayne Sarasua, **William Davis**, Kweku Brown, recognized for Research Impacts, Better-Faster-Cheaper, Transportation Excellence Through Research, "Support for Development and Implementation of an Access Management Program through Research and Analysis of Collision Data," FHWA-SC-15-02, American Association of State Highway and Transportation Officials (AASHTO), Standing Committee on Research, Jan. 2017.

NCEES Engineering Award, 2nd place, \$7,500, for capstone engineering design interaction with professional engineers and improved quality of life, Timothy Mays, Mary Katherine Watson, William Davis, 2015

C.A. Medbery Award for Dedication to Teaching, presented by Citadel Provost, STEM Faculty Com., 2013

ASCE Region 4, Most Outstanding Faculty Advisor, for Exemplary service and dedication to The Citadel American Society of Civil Engineers Student Chapter, 2012

Faculty Excellence Award, Recognized by The Citadel Awards Committee and Provost for Excellence and Innovation in Service and Teaching, 2012

Certificate of Appreciation, Citadel U.S. Navy ROTC, 2012

Citadel Athletic Department, Outstanding Faculty Recognition, Feb. 9, 2012

Technical Merit Award, American Society of Civil Engineers, South Carolina Section, 2009

Charleston Engineer of the Year, Charleston Engineer's Joint Council, 2006

Krause Foundation Award, The Citadel, 2003

Fellow, ENO Center for Transportation Leadership Development, Washington, DC, 1996

CETL/Amoco Foundation GTA Teaching Excellence Award, Center for the Enhancement of Teaching and Learning (CETL), Georgia Tech, Atlanta, GA, 1994

Outstanding Graduate Teaching Assistant, School of Civil & Environmental Engineering, Georgia Tech, 1994

Tau Beta Pi National Honor Society, The Citadel, 1999

Tau Alpha Pi National Honor Society, University of Alabama, 1981

Academic Administration Experience

Through work in Department of Civil & Environmental Engineering, School of Engineering, and college-wide committees, my collegiate record includes an array of administrative experience.

ABET Assessment and Accreditation, authored 2020 *ABET Self-Study Report, Civil Engineering Program*, and *ABET Self-Study Report, Construction Engineering Program*; co-authored 2008 and 2014, *ABET Self-Study Report, Civil Engineering Program*, served as CEE Assessment Committee Chair, 2003-09, co-authored, *CEE Multidisciplinary Capstone Experience, Summary for ABET 2014 Visit*, to address ABET evaluator questions on capstone course experience and multidisciplinary design projects during site visit.

Co-Principle Investigator, \$593,000 National Science Foundation S-STEM grant, "Enhancing Undergraduate Civil Engineering Opportunities for Socioeconomically Disadvantaged, Minorities and Females students in SC," established state-wide recruiting program for comprehensive learning community program to support development of target student populations involving 24 students and institutionalizing numerous college policies and procedures to enhance student diversity and inclusion, 2010-2014.

Member, Citadel School of Engineering, Strategic Planning Committee, 2012-2016, worked with Dean of Engineering to implement policies and initiatives to expand academic programs resulting in undergraduate enrollment increase from 450 to 725 students and graduate student increase from 120 to 400 enrollments.

Faculty Advisor, American Society of Civil Engineers, Citadel Student Chapter, worked extensively with students to conduct numerous service learning and community service projects, participation in regional and national competitions, host k-12 outreach events, host regional student chapter conferences, conduct professional and leadership development events; highlights include: 2012 Robert Ridgway Award Outstanding Student Chapter Award, 2010, 2011, Richard J. Scranton Outstanding Community Service Award, 1998, 2010, 2011 National Steel Bridge Competitions, numerous Regional Conference Recognitions, and 2012 ASCE Region 4, Outstanding Faculty Advisor Award.

Title IX Investigator, 2014-2016, serve on campus-wide committee established to comply U.S. Department of Education, Office of Civil Rights to protect student athletes to prevent and respond promptly, equitably, and effectively to sexual discrimination, harassment, and violence.

Public Health and Built Environment Graduate Curriculum, establish graduate certificate program on cutting-edge interdisciplinary issues including: physical activity, urban mobility, health impact assessment, city/urban planning, infrastructure policies, and built environment design, in conjunction with Medical Univ. of South Carolina, Public Health Sciences, College of Charleston, Public Administration and Environmental Studies, and Clemson Univ., School of Architecture, Clemson Univ., College of Health, Education and Human Development, and Lowcounty Graduate Center, 2014-2016.

Member, Citadel Institutional Review Board, 2009-2016, review scholarly research proposals to insure compliance with ethical principles mandated by Code of Federal Regulations, Title 45, Part 46, Protection of Human Subjects, obtained Institutional Review Board Certification, National Cancer Institute, 2006.

Director, Department of Civil & Environmental Engineering Scholarship Program, administer scholarship program and awards ceremony recognizing student achievement through award of \$125,000 for 20 scholarships to over 40 civil engineering students annually, 2013-2016.

MSCE Program Development, established new course curriculum for 30 credit hour MSCE program in transportation engineering including the following courses: Roadway Geometric Design, Travel Demand Forecasting, Traffic Engineering Operations, Transportation Safety Engineering, Urban Mobility Policy and Planning, and Physical Activity and Design of the Built Environment, 2015.

Member, Undergraduate Research Advisory Council, 2016, advises Office of Undergraduate Research, administers budget for student travel and facilitates engagement of undergraduate students in investigation inquiry, experimentation, and creative expression under guided mentorship of faculty.

Member, Faculty Tenure and Promotion Committee, 2013-2016, college-wide committee governing all tenure and promotion standards and procedures, reviewing all departmental recommendations for faculty tenure and promotion, and making recommendations to the Provost and President.

Member, Citadel Faculty Senate, 2016, works with Provost to establish policies for tenure and promotion, coordinate academic programs, approve curriculum proposals, establish and evaluate core curriculum requirements, administer activities of campus standing committees, and address academic and educational policy concerns common to all faculty and students.

Chair, Citadel Faculty Research Committee, reviewed 140 proposals from all 15 academic departments and approved \$243,000 in Citadel Foundation funds for faculty research and presentation of research proposals, worked with Provost to develop policies for new funding categories, 2005-2006.

Faculty Advisor, School of Engineering Professional Activities Event, worked with student leaders to promote and organize career expo involving 25 companies and 250 students, created event website, brochure, promotional presentation and recruited participating companies and organizations, 2010-2012.

Summary of Teaching Activities

Since arriving at The Citadel in 1997, my teaching experience includes teaching 26 different lecture and laboratory courses. Additional work includes five major service-learning projects, serving on numerous PhD and MS thesis committees, and hiring over 30 undergraduates to work on funded research.

Overview of Courses

1. Public Health, Physical Activity & Design of the Built Environment, CIVL 642, The Citadel, Professor – course developer (in coordination with Medical Univ. of South Carolina, MS Public health)
2. Civil Engineering Capstone Design II, CIVL 433, The Citadel, Professor – course developer
3. Civil Engineering Capstone Design, CIVL 432, The Citadel, Professor – course developer
4. Fluid Mechanics Laboratory, CIVL 418, Professor
5. Geographic Information System, CIVL 506, The Citadel, Professor – course developer
6. Professional Sustainability, CIVL 317, The Citadel, Professor – course developer
7. Transportation Engineering, CIVL 305, The Citadel, Professor – course developer
8. Introduction to Civil Engineering, CIVL 103, The Citadel, Professor –course developer
9. Geospatial Representation, CIVL 208, The Citadel, Professor – course developer
10. Special Topics in Civil Engineering, CIVL 453, The Citadel, Associate Professor
11. Highway Engineering, CIVL 302, The Citadel, Professor – course developer
12. Concrete and Asphalt Laboratory, CIVL 327, The Citadel, Associate Professor – course developer
13. Transportation Capstone Design, CIVL 425, The Citadel, Associate Prof., course developer
14. Civil and Environmental Engineering Internship, CIVL 450, The Citadel, Associate Professor
15. Engineering Management, CIVL 411, The Citadel, Professor – course developer
16. Engineering Administration, CIVL 314, The Citadel, Assistant Professor
17. Senior Research Project, CIVL 431, The Citadel, Assistant Professor
18. Geomatics, CIVL 207, The Citadel, Assistant Professor
19. Surveying, CIVL 205, The Citadel, Professor – course developer
20. Geomatics Laboratory, CIVL 239, The Citadel, Assistant Professor
21. Surveying Laboratory, CIVL 235, The Citadel, Assistant Professor
22. Mechanics of Material Laboratory, CIVL 307, The Citadel, Assistant Professor
23. Dynamics, CIVL 301, The Citadel, Assistant Professor
24. Transportation Engineering II, CEE 4313, Georgia Tech, Instructor
25. Transportation Engineering I, CEE 4304, Georgia Tech, Teaching Assistant
26. Engineering Capstone, CEE 4404, Georgia Tech, Teaching Assistant

Additional Teaching Activities

Ph.D Dissertation Committee, Afshin Famili, Civil Engineering, Clemson Univ., *"Pavement Surface Evaluation Using Mobile Terrestrial LiDAR Scanning Systems,"* successfully passed Proposal Defense, July 17, 2020.

Thesis Advisor, Saurabh Basnet, Civil Engineering, Clemson Univ., *"Crash Severity Analysis Using Redit Scoring For Midblock Crashes in South Carolina,"* successful defense, Apr. 15, 2020.

Ph.D. Dissertation Committee, Adika M Iqbal, Civil Engineering, Clemson Univ., *"Midblock crash Analysis Using Short Segments and Precisely Geocoded crashes,"* successfully passed Proposal Defense, Nov. 12, 2019.

Service, Learning, Folly Beach Speed Study, Michael McGaffic, resulting in 25mph island speed limit, 2018.

Thesis Advisor, Devesh Kumar, Civil Engineering, Clemson Univ., *"Network Screening Prioritization using Incremental Cost Benefit Analysis,"* successful defense, Apr. 5, 2019.

Ph.D. Advisor, Dissertation Committee, Alireza Shams, Civil Engineering, Clemson University, *"Highway Cross Slope Measurement Using Mobile Lidar,"* successfully passed Proposal Defense, Nov. 28, 2017.

Thesis Advisor, Sarath Gorthy, Civil Engineering, Clemson Univ., *"Enhancing Right In Right Out Driveway Safety Operations & Use of Channelization as Compliance Countermeasure,"* successful defense, Apr. 24, 2017.

Service Learning Project, Citadel Campus Traffic and Parking Study, 2016

Service Learning Project, Battery 2 Beach Study, Charleston County, SC, 2010-2012

Service Learning Project, Patriots Point Parking and Traffic Study, 2010-2011

Service Learning Project, Marina Traffic Study, Isle of Palms, SC, 2008-2009

Service Learning Project, W. Carolina Ave. Traffic Study, Summerville, SC, 2005-2006

Technical Research Projects, employed 30 undergraduate students on funded research, 1999-2018

Thesis Committee, Sarath Gorthy, Civil Engineering, Clemson University, *"Analysis of Right-In, Right-Out Commercial Driveway Safety, Operations and use of Channelization as Compliance Countermeasure,* 2017.

Thesis Committee, Meredith Ladue, Civil Engineering, Clemson University, *"Safety and Operational Characteristics of Lane Width on Urban and Rural Roadways,"* 2013.

Thesis Committee, Kevin Baumann, Civil Engineering, Clemson University, *"Operational and Safety Characteristics of Lane Widths on Rural Highways in South Carolina,"* 2012.

Thesis Committee, Harold Jordan, II, Civil Engineering, Clemson University, *"Operational and Safety Characteristics of Lane Widths on Urban and Suburban Arterials in South Carolina,"* 2012.

Thesis Committee, Tiffany Norton, Environmental Science Program, College of Charleston, *"A Cost Benefit Analysis of the Proposed Battery 2 Beach Bicycle and Walking Path in Charleston, SC"* 2011.

Thesis Committee, Joseph Robertson, Civil Engineering, Clemson University, *"A Methodology for Estimating and Comparing the Lifecycles of High-Build and Conventional Waterborne Pavement Markings on Primary and Secondary Roads in South Carolina,"* 2011.

Ph.D. Committee, Priyanka Alluri, Dept. of Civil Engineering, Clemson Univ., *"Development of Guidance for States Transitioning to New Safety Analysis Tools,"* 2010.

Thesis Committee, Josh Johnson, Dept. of Civil Engineering, Clemson Univ., *"Long-Term Performance of Pavement Markings on Primary and Secondary Roads,"* 2010.

Thesis Committee, Sudhakar Pandurangan, Clemson Univ., Dept. of Civil Engineering, *"Performance of Water Borne Paint Pavement Markings used on Primary & Secondary Roads of SC,"* 2009

Thesis Advisor, Jennifer G. Walker, Univ. of North Carolina, School of Public Health and Dept. of City/Regional Planning, *"A Tale of Two Trails: Exploring Different Paths to Success,"* 2007-2008

Extracurricular Leadership Inventory, implemented a means to collect and assess data on civil engineering student leadership and professional skills, development occurring outside of class, through use of an inventory and rubric mapped with Department assessment outcomes, 2014

CIVL 205, Surveying, Supplemental Instruction program, 2014-2015

CIVL 575, Traffic Engineering Operations, course for MSCE program, 2015

CIVL 576, Roadway Geometric Design, course for MSCE program, 2015

CIVL 640, Urban Mobility Infrastructure Policy and Planning, course for MSCE program, 2015
 CIVL 642, Public Health, Physical Activity & Design of Built Environment, syllabus for MSCE program, 2015
 CIVL 740, Transportation Safety Engineering, course for MSCE program, 2015
 CIVL 741 Travel Demand Forecasting, course for MSCE program, 2015
 CIVL 506, Geographic Information Systems Applications for Civil Engineers, developed new graduate course, course goals, instructional materials, student assignments, multimedia lectures, 2013
 CIVL 612, Urban Transportation Planning, course for MSCE program, 2009

Scholarly and Professional Activities

Scholarly and professional activities include 17 journal publications, 35 national conference proceedings, 22 regional conference proceedings, 24 externally funded research projects, and more summarized below.

Scholarly Journal Publications

Hughey, S.M., Stowe, E.W., Trello, S.K., Bornstein, D., Brown, K., Davis, W.J., Kaczynski, A.T. A Multi-Method Study of Patterns and Motivations of Greenway-based Physical Activity. *Translational Journal of the American College of Sports Medicine*, Vol. 6(1), pp. 1-8, 2021, DOI: 10.1249/TJX.000000000000142, Issn Print: 2379-2868.

Shams, Alireza, Wayne Sarasua, Bradley Putman, William Davis, Jennifer Ogle, Highway Cross-Sectional Design and Maintenance to Minimize Hydroplaning, *Journal of Transportation Engineering Part B Pavements*, 146(4), American Society of Civil Engineers, <http://dx.doi.org/10.1061/JPEODX.0000213> Dec. 2020

Iqbal, Adika M., Wayne Sarasua, Kweku Brown, Jennifer H. Ogle, Afshin Famili, William Davis, Saurabh Bikram Basnet, Devesh Kumar, Assessment of Crash Location Accuracy in Electronic Crash Reporting Systems, *National Academy of Sciences: Transportation Research Record, Journal of the Transportation Research Board*, Vol 2674(9), pp 311-323 <https://doi.org/10.1177/0361198120929183> , July 2020.

Cherukumalli, Gowtham, Wayne Sarasua, Stephen Fry, William Davis, "Evaluation of manual traffic control in directing traffic operations for major special events: Clemson University football game day experience," *American Journal of Traffic and Transportation Engineering, Science PG*, Vol. 5, Issue 2, pp. 20-28, doi: 10.11648/j.ajtte.20200502.11, May 2020.

Shams, Alireza, Sarasua, Wayne, Famili, Afshin, **Davis, William**, Ogle, Jennifer, Cassule, Leonardo, Mammadrahimli, Adika, Highway Cross-Slope Measurement Using Mobile LiDAR, *National Academy of Sciences: Transportation Research Record, Journal of the Transportation Research Board*, Vol.2672, Issue 39, pp. 88-97, DOI: 10.1177/0361198118756371, Dec. 2018.

Ogle, Jennifer, Islam, Sababa, Brown, Kweku, **Davis, William**, Sarasua, Wayne, Impacts of State Specific Policy and Legislation on Safety Advancement by Departments of Transportation, *National Academy of Sciences: Transportation Research Record, Journal of the Transportation Research Board*, Vol. 2672, Issue 32, pp. 107-119, DOI: 10.1177/0361198118799038, Dec. 2018.

Ogle, Jennifer, Meredith Ladue, Wayne Sarasua, **William Davis**, Adika Mammadrahimli, Xi Zhao, "Evaluation of the Operational Performance of Two Way Left Turn Lanes of Varying Widths using a Driving Simulator," *Transportation Research Record, Journal of The Transportation Research Board*, Vol. 2518, pp. 122-129, Human Performance, User Information and Simulation, National Academies of Sciences, Engineering, Medicine, Washington, DC, Jan. 2015.

Bornstein, Daniel, **William J. Davis**, "The Transportation Profession's Role in Improving Public Health", *ITE Journal*, Vol. 84, No. 7, pp. 18-24, Institute of Transportation Engineers, Washington, DC, July 2014.

C. Minh, N. Huynh, M. Chowdhury, J. Ogle, W. Sarasua, **W. Davis**. Impact of Minimum Driveway Spacing Policies on Safety Performance: An Integrated Traffic MicroSimulation and Automated Conflict Analysis. *International Journal of Transportation Science and Technology*, 2014, Vol. 3, No. 3, pp. 249-264.

Sarasua, Wayne, **William J. Davis**, Joseph Robertson, Joshua Johnson, A Methodology for Evaluating Centerline Markings in Temperate Climates, *Journal of Transportation*, Volume 5, Issue I, Institute of Transportation Engineers, Washington, DC, pp. 17-30, July 2013.

Robertson, Joseph, Wayne Sarasua, Joshua Johnson, **William Davis**, "A Methodology for Estimating and Comparing the Lifecycles of High-Build and Conventional Waterborne Pavement Markings On Primary and

Secondary Roads in South Carolina," Public Works Management & Policy, Sage Journals, 18(4), pp. 360-378, DOI: 10.1177/1087724X12451441, Oct. 2013.

Walker, Jennifer, **William J. Davis**, Philip Bors, Daniel A. Rodriguez, "A Tale of Two Trails: Exploring Different Paths to Success," Journal of Physical Activity and Health, The Official Journal of the International Society of Physical Activity and Health, Volume 8, Issue 4, pp. 523-533, Champaign, IL, May 2011.

Sarasua Wayne, **William Davis**, M. Chowdhury, Jennifer Ogle, "Development of a Methodology to Estimate the Interstate Highway Capacity for Short-Term Work Zone Lane Closures," Transportation Research Record, Journal of The Transportation Research Board, Vol. 1948, Management and Delivery of Maintenance and Operations Services, National Academy Press, Washington, DC, pp. 45-57, Sept. 2006.

Sarasua, Wayne, **W. Davis**, D. Clarke, J. Kottapally, "Evaluation of Interstate Highway Capacity for Short-Term Work Zone Lane Closures," Transportation Research Record, Journal of The Transportation Research Board, No. 1877, Maintenance Management and Services 2004, National Academy Press, Washington, DC, pp. 85-94. (Awarded Best Paper Sponsored by TRB Committee AHB55, Work Zone Traffic Control)

Sarasua, Wayne, **William J. Davis**, "Addressing Educational Needs in Spatial Data and Information Science within the Civil Engineering Undergraduate Curriculum," Transportation Research Record, Journal of The Transportation Research Board, No. 1848, Transportation Management and Public Policy 2003, National Academy Press, Washington, DC, pp. 64-69, Dec. 2003.

Taylor, Dean, **W. Jeffrey Davis**, "A Review of Basic Research in Bicycle Traffic Science, Traffic Science and Facility Design", Transportation Research Record, Journal of The Transportation Research Board, No. 1674, Pedestrian and Bicycle Research, National Research Council, Washington, DC, Jan. 1999.

Davis, W. Jeffrey, John D. Leonard, "Urban Traffic Calming Treatments: Performance Measures and Design Conformance", ITE Journal, Vol. 67, No. 8, Institute of Transportation Engineers, Washington, DC, Aug. 1997.

Davis, W. Jeffrey, Catherine L. Ross, "Multi-Jurisdictional Project Evaluation in the Chattanooga Urban Area," ASCE Journal of Urban Planning and Development, Vol. 122, Am. Soc. of Civil Engineers, New York, NY, June 1996.

Textbook Chapters and Course Workbook Sections

Physical Activity and Public Health Science, Editors Daniel Bornstein, Amy Eyler, Jay Maddock, Justin Moore, ISBN 9780826134585, Springer Publishing, New York, 2019, coauthored Chapter 18, Physical Activity in Urban Settings.

Surveying, 6th Edition, ISBN 978-0-470-49661-9, Jack C. McCormac, Wayne A. Sarasua and **William J. Davis**, 400 pages, John Wiley & Sons, Hoboken, NJ, 2012.

Published textbook solutions manual, April 30, 2012, McCormac, Jack, Wayne A. Sarasua, and **William J. Davis**, Manual created by Joseph Robertson, "Solutions Manual" to accompany Surveying 6th Edition.

FHWA Course on Pedestrian and Bicycle Transportation, Graduate Course Workbook, Student Workbook and Instructors Guide, Prepared student exercises, solutions and instructor's commentary, US Department of Transportation, Federal Highway Administration, Washington, DC, 1999.

Wright, Paul H., Highway Engineering, 6th Edition, John Wiley & Sons, Inc., New York, NY, 1996, authored Chapter 7, Geometric Design of Highways, pp.162-221.

National Conference Proceedings, peer reviewed

Iqbal, Adika, Wayne Sarasua, Afshin Famili, Jennifer Ogle, **William Davis**, Devesh Kumar, Saurabh Basnet, Emmanuel Adjei, "Assessing the Predictability of Short Segment Crash Analysis in the State of South Carolina," 21-04402, Proceedings of 100th Annual Transportation Research Board Meeting (virtual), Jan. 2021.

Famili, Afshin, Wayne Sarasua, Alireza Shams, **William Davis**, Jennifer Ogle, "Application of Mobile Terrestrial LiDAR Scanning Systems for Identification of Potential Pavement Rutting Locations," 21-03720, Proceedings of 100th Annual Transportation Research Board Meeting (virtual), Jan. 2021.

Ghanat, Simon, **Davis, William**, Nale, Dan, Burke, Rebekah, Engagement in Practice: Adopting Service Learning and Community Engagement as a High Impact Teaching Strategy in Geo Engineering, American Society for Engineering Education Annual Conference, Virtual, June 2020

Watson, Mary Katherine, Ghanat, Simon, Wood, Timothy, **Davis, William**, Bower, Kevin, Hornor, Tara, Welch, Ron, A Summer Calculus Experience to Encourage Development of Community and Self-efficacy Building of Civil Engineering Students, Am. Society for Engineering Education Annual Conference, Virtual, June 2020

Watson, Mary Katherine, Ghanat, Simon, Wood, Timothy, **Davis, William**, Hornor, Tara, Bower, Kevin, GIFTS: Reimagining the Early Calculus Experience, First-Year Engineering Experience (FYEE), American Society for Engineering Education, July 2020

Shams, Alireza, Wayne Sarasua, Brook Russell, **William Davis**, Christopher Post, Afshin Famili, Kweku Brown, Jennifer Ogle, "Evaluation of Airborne and Mobile LIDAR Accuracy in Highway Cross Slope Measurement," 19-05907, Proceedings of 98th Annual Transportation Research Board, Washington, DC, Jan. 2019.

Watson, Mary Katherine, **William Davis**, Timothy Mays, Ron Welch, John Ryan, Measuring Undergraduate Student Design Self-Efficacy within an Undergraduate Civil Engineering Curriculum, Proceedings of 126th American Society for Engineering Education Annual Conference, Tampa, FL, June 2019.

Ghanat, Simon, **William Davis**, Assessing Students' Prior Knowledge and Learning in an Engineering Management Course for Civil Engineers, Proceedings of 126th American Society for Engineering Education Annual Conference, Tampa, FL, June 2019.

Watson, Mary Katherine, Simon Ghanat, Timothy Wood, **William Davis**, Kevin Bower, A Systematic Review of Models for Calculus Course Innovations, Proceedings of 126th American Society for Engineering Education Annual Conference, Tampa, FL, June 2019.

Rabb, Robert, Ronald Welch, **William Davis**, Deirdre Ragan, Jason Geathers, Small Mentoring Efforts that Make a Big Difference for Retention, Proceedings of 126th American Society for Engineering Education Annual Conference, Tampa, FL, June 2019.

Rabb, Robert, Ronald Welch, **William Davis**, Robert Barsanti, Supporting Regional Engineering Demand by Effective Transition of Veterans on Campus, Proceedings of 126th American Society for Engineering Education Annual Conference, Tampa, FL, June 2019.

Famili, Afshin, Sarasua, Wayne, Alireza, Shams, **Davis, William**, Ogle, Jennifer, Putman, Bradley, Brown, Kweku, Cassule, Leonildo, Mammadrahimli, Adika, "Improving Quantity Estimating for Pavement Rehabilitation and Resurfacing Using Mobile Lidar," 18-06403, Proceedings of 97th Annual Transportation Research Board, Washington, DC, Jan. 2018.

Davis, William, Simon Ghanat, Dimitra Michalaka, Kweku Brown, "Application of Indirect and Direct Measures for Student Teamwork Outcome Assessment within an Undergraduate Civil Engineering Curriculum," Proceedings of 124th Am. Soc. for Engineering Education Annual Conf., Columbus, OH, June 2017.

Watson, Mary Katherine, Kevin Bower, **William Davis**, "Advancing Diversity Initiatives in Civil Engineering Profession: Impacts of a NSF S-STEM Grant at a Regional Undergraduate Teaching Institution," Proceedings of 124th American Society for Engineering Education Annual Conference, Columbus, OH, June 2017.

Gorthy, Sarath, Wayne Sarasua, Afshin Familia, John Gervais, Kweku Brown, **William Davis**, Nathan Huynh, Heidi Nielson, David Cook, "Analysis of Right-In, Right-Out Commercial Driveway Safety, Operations, and Use of Channelization as Compliance Countermeasure, 17-05686, Proceedings of 96th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2017.

Cherukumalli, Gowtham, Wayne Sarasua, Stephen Fry, **William Davis**, "Evaluation of Law Enforcement Effectiveness in Directing Traffic Operations for Major Special Events: Clemson University Football Game Day Experience," 17-05188, Proceedings of 96th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2017.

Davis, William, Simon Ghanat, Kevin Bower, "An Evaluation of Direct and Indirect Measures for Assessment of Professional Skills in an Undergraduate Civil Engineering Curriculum," Proceedings of 123rd American Society for Engineering Education Annual Conference, New Orleans, LA, June 2016.

Stokes, Andrew, Wayne Sarasua, Nathan Huynh, Kweku Brown, Jennifer Ogle, Adika Mammadrahimli, **William Davis**, Mashrur Chowdhury, "Safety Analysis of Driveway Characteristics along Major Urban Arterial Corridors in South Carolina," 16-6766, Proceedings of 95th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2016.

Brown, Kweku, Wayne Sarasua, Jennifer Ogle, Adika Mammadrahimli, Mashrur Chowdhury, **William Davis**, Nathan Huynh, "Assessment of Crash Location Improvements in Map-Based Geocoding Systems and Subsequent Benefits to Geospatial Crash Analysis," 15-5364, Proceedings of 94th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2015.

Davis, William, Dimitra Michalaka, "Teaching and Assessing Professional Skills in an Undergraduate Civil Engineering Curriculum," Proceedings of 122nd American Society for Engineering Education Annual Conference, Seattle, WA, June 2015.

Michalaka, Dimitra, **William Davis**, "Application of Active Learning Techniques in Undergraduate Civil Engineering Curriculum," Proceedings of 122nd American Society for Engineering Education Annual Conference, Seattle, WA, June 2015.

Davis, William, Bower, Kevin, Connor, Elizabeth, "Enhancing Undergraduate Civil Engineering Opportunities for Minority, Female, and Socioeconomically Disadvantaged Students," 121st American Society for Engineering Education Annual Conference and Exposition, Indianapolis, IN, June 2014.

Michalaka, Dimitra, **William J. Davis**. (2013). "Transforming Transportation Engineering Education to better address Universal Mobility Challenges," 17th IRF World Meeting & Exhibition 2013, Riyadh, Saudi Arabia, 17th IRF World Meeting Proceedings.

Davis, William J., Kevin Bower, Ron Welch, Doug Furman, "Developing and Assessing Student's Principled Leadership Skills: to achieve the Vision for Civil Engineers in 2025," Proceedings of 120th American Society for Engineering Education Annual Conference, Atlanta, GA, June 2013.

Robertson, Joseph, Joshua Johnson, Wayne Sarasua, **William Davis**, James Aton, 11-3666, "A Methodology for Estimating and Comparing the Lifecycles of High-Build and Conventional Waterborne Pavement Markings On Primary And Secondary Roads in South Carolina," Proceedings of 91st Annual Transportation Research Board Meeting, Washington, DC, Jan. 2012.

Bower, Kevin C., **William J. Davis**, "Department Wide Application of Embedded Indicators," Proceedings of the 38th ASEE/IEEE Frontiers in Education Conference, Saratoga Springs, NY, Oct. 2008.

Bower, Kevin C., **William J. Davis**, AC 2008 898, "Continuous Improvement of Environmental Engineering Curriculum in a CE Accredited Program," ASEE National Conference, Pittsburgh, PA, June 2008.

Sorrell, Mark, Wayne Sarasua, **William Davis**, Jennifer Ogle, Anne Dunning, 07-3159, "Use of Radar Equipped Portable Changeable Message Sign to Reduce Vehicle Speed in South Carolina Work Zones" Proceedings of the 86th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2007.

Bower, Kevin C., **William J. Davis**, Kenneth P. Brannan, "Sequential Course Outcome Linkage: A New Look at Environmental Engineering Curriculum in a Civil Engineering Program," 2006 ASEE National Conference and Exposition, American Society of Engineering Education, Chicago, IL, June 2006.

Bower, Kevin, **William Davis**, Timothy Mays, "Meaningful Learning Environment by Design: Systematic Curriculum Assessment to Enhance Sequential Linkage of Course Goals and Objectives," Proceedings of the 35th ASEE/IEEE Frontiers in Education Conference, Indianapolis, IN, Oct. 2005.

Davis, William, Wayne Sarasua, P. Gode, James Gordon, 05-2517, "Evaluation of the South Carolina East Coast Greenway Route Using a Modified Bicycle Compatibility Index Procedure," Proceedings of 84th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2005.

Thamizharasan, A., Wayne Sarasua, Dave Clarke, **William J. Davis**, 03-3867, "A Methodology for Estimating the Lifecycle of Interstate Highway Pavement Marking Retroreflectivity," Proceedings of 82nd Annual Transportation Research Board Meeting, Washington, DC, Jan. 2003.

Sarasua, Wayne, **William J. Davis**, "Including Geomatics as an Essential Element of the Civil Engineering Curriculum," 2003 ASEE Annual Conference Proceedings, American Society of Engineering Education, Nashville, Tennessee, June 2003.

Sarasua, Wayne, Dave Clark, Cliff Collins, Jen Tropea, Amanda Pfaller, **William Davis**, "Measurement and Evaluation of Pavement Marking Retroreflectivity: South Carolina Experience," 80th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2001.

Sarasua, Wayne, Dave Clark, **William Davis** "Methods and Considerations for Evaluating the Retroreflectivity of Pavement Markings," Proceedings of 79th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2000.

Davis, William J., Peter S. Parsonson, John D. Leonard, II "Life Cycle Analysis of Urban Arterial Roadways; An Evaluation of Traffic Growth, Land Development, Access Spacing and Crash Rates," Proceedings of the 79th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2000.

Davis, W. Jeffrey, John D. Leonard, "Urban Traffic Calming Measures: Conformance with AASHTO and MUTCD Guidelines," Conference Proceedings on Traffic Congestion and Traffic Safety in 21st Century, Chicago, IL, ASCE, June 1997.

Regional Conference Proceedings, peer reviewed

Greenburg, David, **Davis, William**, Developing a Probability and Statistics Course for Civil and Construction Engineering Students, American Society of Engineering Education Southeastern Section Annual Conference, Auburn, AL, Mar. 2020

Brown, Kweku, Michalaka, Dimitra, **Davis, William**, Students' Perception of Performance Before and After Exams In a Surveying Course, American Society of Engineering Education, Zone II, Southeastern Section, Annual Conference, Auburn, AL, Mar. 2020

Ghanat, Simon, Kweku Brown, Rebekah Burke, **William Davis**, "Study of Prior Exposure to Engineering Economy at The Citadel," Proceedings of the 2019 Southeastern Section Annual Conference, "Educating Tomorrow's Engineering Entrepreneur," Am. Society of Engineering Education, Raleigh, NC, Mar. 2019.

Batouli, Mostafa, Rebekah Burke, Jeffery Plumblee, **William Davis**, "Impact of Misperception on Selecting an Engineering College Major: An Empirical Analysis," Proceedings of the 2019 Southeastern Section Annual Conference, "Educating Tomorrow's Engineering Entrepreneur," American Society of Engineering Education, Raleigh, NC, Mar. 2019.

Plumblee, Jeffrey, Rebekah Burke, Mostafa Batouli, **William Davis**, "Understanding faculty perceptions of a new construction engineering major," Proceedings of the 2019 Southeastern Sec. Annual Conf., "Educating Tomorrow's Engineering Entrepreneur," Am. Soc. of Engineering Education, Raleigh, NC, Mar. 2019.

Brown, Kweku, Dimitra Michalaka, Michael Woo, **William Davis**, "The Value of the Involvement of Licensed Surveyors in a Surveying Course," Proceedings of the 2019 Southeastern Sec. Annual Conf., "Educating Tomorrow's Engineering Entrepreneur," Am. Soc. of Engineering Ed., Raleigh, NC, Mar. 2019.

Ghanat, Simon, **William Davis**, "Pedagogical Techniques Employed in an Engineering Management Course," Proceedings of the 2018 Southeast Section Meeting, American Society of Engineering Education, Embry-Riddle Aeronautical University, Daytona Beach, FL, Mar. 2018.

Davis, William, Dimitra Michalaka, Kweku Brown, "Student Perception of Teamwork Skills and Experiences Across Prerequisite Courses in Transportation Engineering at The Citadel," Proceedings of the American Society of Engineering Education Zone 2 Spring Conference, San Juan, Puerto Rico, Mar. 2017.

Ghanat, Simon, Dimitra Michalaka, **William Davis**, "Student Perception of Professional Skills Development in the Undergraduate Civil Engineering Curriculum at The Citadel," Proceedings of the 2016 Southeast Section Meeting, American Society of Engineering Education, Tuscaloosa, AL, March 2016.

Davis, William J and Thomas R. Dion, "Civil Engineering Service Learning Projects: Local and Global Perspectives," Proceedings of the 2012 Southeast Section Meeting, American Society of Engineering Education, Starkville, MS, April 2012.

Timothy W. Mays, Kevin C. Bower, **William J. Davis**, "Sequential Course Outcome Linkage: A New Look at the Structural Engineering Curriculum of a Civil Engineering Program," Proceedings of the Southeastern Section Meeting, American Society of Engineering Education, Louisville, KY, April 2007

Dion, Thomas, Kevin Bower, Timothy Mays, **William Davis**, "Teaching Design throughout the Civil and Environmental Engineering Curriculum," Proceedings of the Southeastern Section Meeting, American Society of Engineering Education, Chattanooga, TN, April 2006

Davis, William J., Kevin Bower, Timothy Mays, "Implementation of a Course Assessment Process for Continuous Improvement and Outcomes Assessment," Proceedings of the Southeastern Section Meeting, American Society of Engineering Education, Chattanooga, TN, April 2005

Davis, William J., T.W. Mays, J.K. Plemmons, "Rethinking Capstone Courses in Civil Engineering: A Response to ABET 2003-2004 Criteria for Accrediting Engineering Programs," Proceedings of the 2004 Southeastern Section Meeting, American Society of Engineering Education, Auburn, AL, April 2004

Davis, William J. and Dennis J. Fallon, "Engineering Management for Undergraduates," Proceedings of the 2001 Southeastern Section Meeting, American Society of Engineering Education, Charleston, SC, April 2001

Sarasua, Wayne and **William J. Davis**, "Including Geomatics as an Essential Element of the Civil Engineering Curriculum," Proceedings of the 2001 Southeastern Section Meeting, American Society of Engineering Education, Charleston, SC, April 2001

Brannan, Kenneth P., John A. Murden, Russell H. Stout, Dennis J. Fallon, **William J. Davis**, "The Citadel 101 Freshman Initiative," Proceedings of the 2001 Southeastern Section Meeting, American Society of Engineering Education, Charleston, SC, April 2001

Davis, William J., Phillip Strobe, "Enhancing Student Learning and Community Service Through Senior Engineering Projects," Proceedings of the 2000 Southeast Section Meeting, American Society of Engineering Education, Roanoke, VA, April 2000

Brannan, Kenneth P., Russell H. Stout, John A. Murden, **William J. Davis**, "Enthusiasm, Intrigue and Retention: Alliance for a New Millennium in Freshman Engineering Education," Proceedings of the 2000 Southeastern Section Meeting, American Society of Engineering Education, Roanoke, VA, April 2000.

Davis, William J., Thomas R. Dion, "Asphalt Laboratory Instruction – Transitioning from Marshall Mix to Superpave Mix Design," Proceedings of the 1999 Southeastern Section Meeting, American Society of Engineering Education, Clemson, SC, April 1999.

Dion, Thomas R., **William J. Davis**, "Utilization of computer technology relating to Geomatics and Geographic Information Systems Towards Fulfilling ABET 2000 Criteria," Proceedings of the 1999 Southeastern Section Meeting, American Society of Engineering Education, Clemson, SC, April 1999.

Davis, W. Jeffrey, "Integrated Database Construction for Urban Transportation Analysis," Proceedings of the 1998 Southeastern Section Meeting, American Society of Engineering Education, Orlando, FL, April 1998.

Presentations at National Conferences

Webinar presentation, Daniel Bornstein, **William Davis**, "Creation of Graduate Curriculum Explaining Relationships Between Public Health, Physical Activity, Urban Mobility & The Built Environment," Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE), University Transportation Center, July 8, 2020, <https://www.youtube.com/watch?v=Z3GV0Ilc3bQ&t=3s>

Hughey, S.W., M. McNamara, D. Bornstein, K. Brown, **William Davis**, J. Lindsey, "Holy Spokes Bike Share: Exploring the patterns of use, associations with built environment features, and implications for city planning and transportation in Charleston, South Carolina," Active Living Research, 2019 Annual Conference, Feb. 17, 2019, Charleston, SC.

Hughey, S.W., D. Bornstein, S. Trello, K. Brown, **William Davis**, "Evaluating the use and physical activity patterns of three greenways in Charleston, South Carolina," Active Living Research, 2019 Annual Conference, Feb. 19, 2019, Charleston, SC.

Davis, William, M. Hughey, "How do we teach active living to future practitioners and researchers?" Plenary Panel Presentation Active Living Research, 2019 Annual Conf., Feb. 20, 2019, Charleston, SC.

Dow, Kirstin, Sarah Watson, Norm Levine, **William Davis**, Simon Ghanat, "Science and engagement co-production around compounding climate risks and impacts in the Charleston, SC Region," National Adaptation Forum, Action Today for a Better Tomorrow, April 24, 2019, Madison, WI.

Invited National Presentation, "ITE Talks Transportation Podcast Series, Institute of Transportation Engineers, Episode 21, Transportation and Health with The Citadel's Jeff Davis and Dan Bornstein," Feb. 2018, <https://www.spreaker.com/user/ite-talks-transportation/the-citadel-3>, 711 downloads.

Bornstein, Daniel, **William Davis**, Kweku Brown, Savannah Brennan, "Working to make the world's number one destination city a livable city for residents: Lessons from active transportation advocacy in Charleston, SC," Active Living Research Conference, Clearwater, FL, Feb. 2017.

Warasua, Wayne, **William Davis**, Recognized for National High Value Research, 2016 Research Impacts. Better-Faster-Cheaper. Transportation Excellence Through Research, "Support for Development and Implementation of an Access Management Program through Research and Analysis of Collision Data," FHWA-SC-15-02, American Assoc. of State Highway and Transportation Officials (AASHTO), Standing Committee on Research, P17-22109, 96th Annual Transportation Research Board Meeting, Washington, DC, Jan. 2017.

“Cycling and Walking from Battery to Beach in Charleston, South Carolina; A Green Route for the Future,” Green Streets, Highways and Development Conference “Advancing the Practice”, Transportation and Development Institute, American Society of Civil Engineers (T&DI, ASCE), Austin, TX, Nov. 1-6, 2013.

“Lifecycles of Yellow Centerline Markings on Primary and Secondary Roads in South Carolina,” 92nd Annual Transportation Research Board Meeting, Signing and Marking Materials (AHD55) Committee, Washington, DC, Jan. 16, 2013.

“Service Learning and Experiential Methods in Undergraduate Transportation Engineering Education,” Transportation Engineering Education Conference, Portland, OR, June 22-24, 2009.

“Three Centuries of Solutions to Coastal and Seismic Disaster,” Solutions to Coastal Disasters Conference, Coast, Oceans, Ports, and Rivers Institute, Am. Society of Civil Engineers, Charleston, SC, May 8-11, 2005

“South Carolina East Coast Greenway Transportation Safety, Route and Facility Needs Study,” East Coast Greenway Alliance Annual Conference, Charleston, SC, Nov. 8, 2003.

Davis, William J., M. Elliott “Bicycles on The Edge, Paved Shoulders, Rumble Strips, & Audible Edge Lines,” 150th Annual Conference & Convention, Am. Society of Civil Engineers, Washington, DC, Nov. 4, 2002.

“An Evaluation of Life Cycle Factors for Urban Arterial Roadways,” 77th Annual Transportation Research Board Meeting, Washington, DC, Jan. 1998.

“Traffic Calming Within the Broader Context of Transportation Engineering”, 76th Annual Transportation Research Board Meeting, Washington, DC, Jan. 1997.

“Standards and Issues Related to Bicycle Facility Design,” Panelist, Transportation Congress, American Society of Civil Engineers, San Diego, CA, Oct. 1995.

Presentations at Regional Conferences

Davis, William, “What Makes Transportation Engineering a Great Profession,” Keynote Address, Student Leadership Summit, Institute of Transportation Engineers, Feb. 23, 2019, Clemson SC.

Kristin Dow, **William J. Davis**, Simon Ghanat, Sarah Watson, “Engaging with Charleston Communities on Flood Risks and Impacts,” 2018 Carolinas Climate Resilience Conference, Columbia, SC, Oct. 30, 2018.

Daniel Bornstein, **William J. Davis**, “Transportation Engineering and Public Health: Updates on Science, Interventions and Practice,” Georgia Section, Institute of Transportation Engineers, 2018 Summer Seminar, St. Simons Island, GA, July 18, 2018.

“The Citadel Transportation Education and Research,” 5th Annual UTC Conference for the Southeastern Region, University of Florida, Gainesville, FL, Nov. 16, 2017.

Davis, William, Daniel Bornstein, “Research, Programs, and Best Practices in Quantifying Relationships between Urban Transportation, Physical Activity and Public Health,” 62nd Annual Meeting, Institute of Transportation Engineers, District 5, Progress Over Process, March 31, 2014, Greensboro, GA.

“Summary of South Atlantic Container Terminals: Capacity, Growth, Expansion & Sustainability,” 59th Annual Meeting of the Southern District, Inst. of Transportation Engineers, Lafayette, LA, April 12, 2011.

“Managing & Advising Undergraduate Students As They Conduct Independent Traffic Engineering Studies,” 2002 Southeastern Section Meeting, Am. Society of Engineering Education, Gainesville, FL, April 9, 2002.

“Multimodal Transportation Facilities, The Evolution of Bicycle & Pedestrian Design Guidelines,” Alabama Section 31st Annual Meeting, Institute of Transportation Engineers, Gulf Shores, AL June 13, 2002.

“Monitoring Changes in Traffic, Development, Access and Safety on Urban Arterial Roadways in Alabama, Tennessee and the Carolinas,” Alabama & Deep South Section 27th Annual Meeting, Institute of Transportation Engineers, Gulf Shores, AL June 1999

Presentations at State/Local Conferences

Invited Presentation, *Regional University Transportation Center FAST Act Research Priority, Reducing Congestion, Southeastern Transportation Research, Innovation, Development & Education Center (STRIDE)*, Research and Development Executive Committee, SCDOT, Columbia, SC, Jan. 25, 2018.

Invited Presentation, South Carolina Department of Transportation, five research problem statements including, *Evaluation of Impacts of Maritime and Inland Port-Based Truck Traffic on Surrounding Highway Networks*, progressed to final funding round, co-authored with Doug Frate, Columbia, SC, Nov. 1, 2018.

Steve Jaume, Simon Ghanat, **William J. Davis**, Norm Levine, Erin Beutel, 4-hr workshop on “*South Carolina Earthquake Risks to Infrastructure and Transportation*,” SC Emergency Management Division (SCEMD), SC Earthquake Education and Preparedness Program (SCEEP), N. Charleston, SC, Dec. 19, 2016.

Jennifer Ogle, Nathan Huynh, **William Davis**, “Successful Safety Strategies,” Target Zero Traffic Deaths, Highway Safety Conference, S.C., Department of Transportation, Charleston, SC, July 26-28, 2016

Wayne Sarasua, **William Davis**, “Safety Analysis of Driveway Characteristics along Major Urban Arterial Corridors in South Carolina,” South Carolina Highway Engineers Conference, Columbia, SC, Mar. 22, 2016

Wayne Sarasua, **William Davis**, “Analyzing the Safety of Driveways and Access Management Practices in SC,” Georgia Inst. of Transportation Engineers, Summer Seminar, St. Simons Island, GA, July 19-22, 2015

Wayne Sarasua, **William Davis**, “Testing the Retroreflectivity of Pavement Markings on Primary and Secondary Roads in South Carolina,” Georgia (ITE) Institute of Transportation Engineers, Summer Seminar, St. Simons Island, GA, July 17, 2012.

“Strategic Highway Safety Plan — The Road Map to Safety” 2008 South Carolina Highway Safety Conference, SC Dept. of Transportation, Columbia, SC, Sept. 25, 2008

“Functional Multi-use Path Design and Supportive Elements of the Built Environment; Case Study Research in the Carolinas” SC Transportation Partnering Conference, SC DOT, Spartanburg, SC, Dec. 2-5, 2007

“Bicycle, Pedestrian and Multi-Use Path Facilities: On-Site Review of Conditions in Myrtle Beach & N. Myrtle Beach,” 2004 SC Bicycle & Pedestrian Accommodations Conference, SC DOT, Myrtle Beach, SC, Oct. 2004

“GPS & GIS, Teaching Surveying to Tomorrows Engineers,” South Carolina Society of Engineers Annual Meeting, Charleston, SC, July 1999

“Bicycle Transportation Issues in South Carolina,” Panelist, South Carolina Section, Institute of Transportation Engineers, Columbia, SC, Sept. 1999

“Analysis of Bicycle Conditions within the Urban Roadway Network,” presented at the Georgia Section ITE Annual Meeting, Dillard, GA, Aug. 1995

“A Private Company’s Role in the Public Highway Design & Construction,” Highway Engineering Experts Delegation, People’s Republic of China, Georgia Tech International Exchange Program, Atlanta, GA, 1994

“Urban Traffic Calming Measures: Policy, Planning & Design Approaches for Effective Implementation,” NYC Traffic Calming Seminar & Workshop Conference, NY Dept. of Transportation, New York, NY, 1993

“Designing Urban Intersections to Meet Future Traffic Demand,” State of Alabama Highway Engineering and Construction Conference, Montgomery, AL, Feb. 1987

Externally Funded Research Grants

2020, received \$54,375 in funding for “*Potential Reduction of Fatal Crashes in South Carolina due to Connected and Automated Vehicles*,” Center for Connected Multimodal Mobility (C2M2), University Transportation Center, USDOT, Office of Research & Technology, \$125,724 research grant awarded to Clemson University and The Citadel.

2020, received \$44,900 in funding for “*Evaluation of Transportation Network Infrastructure, Safety, and Travel Route Characteristics of Bike Share, Electric-Powered Pedal-Assist Bike Share, and Electric Scooter System Operation*,” Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE), University Transportation Center, USDOT, Office of Research & Technology, University of Florida, \$94,990 research grant, The Citadel, Georgia Tech, College of Charleston.

2018, received \$53,655 in funding for “*Assessing Potential of Bike Share Networks and Active Transportation to Improve Urban Mobility, Physical Activity and Public Health Outcomes in South Carolina*,” Center for Connected Multimodal Mobility (C2M2), University Transportation Center, USDOT, Office of Research & Technology, Clemson Univ., \$157,389 research grant, The Citadel, Univ. of S. Carolina, Col. of Charleston.

2018, received \$45,374 in funding for “*Understanding Relationships between the Built Environment, Physical Activity, Public Health, Urban Mobility, and Traffic Congestion: Graduate Course and Curriculum Development*,” Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE), University Transportation Center, USDOT, Office of Research & Technology, University of Florida.

2017, received \$25,740 in funding for, “*Crash Analysis Using Precisely Geocoded Crashes*,” conducted with Clemson Univ. via \$197,496 federal grant from Office of Materials & Research, SCDOT, Columbia, SC.

2016, received \$500,000 grant for “Regional University Transportation Center (Region 4) on Fast Act Research Priority: Reducing Congestion,” Univ. of Florida, Auburn Univ., The Citadel, Florida International, Georgia Tech, Jackson State, Univ., N.C. State Univ., Tennessee Tech., Univ. of Alabama-Birmingham, Univ. of North Carolina, via \$14.3m grant from USDOT, Office of Research and Technology.

2016, received \$500,000 grant for “South Carolina Center for Connected Multimodal Mobility,” University Transportation Center, Clemson Univ., The Citadel, Univ. of SC, S.C. State Univ., Benedict College, of \$7.8m grant from USDOT, Office of Research and Technology.

2016, received \$81,580 grant for “Building Community Resilience to Water-Related Hazards in the Charleston, SC Region: A Charleston Resilience Network Initiative,” conducted with College of Charleston and University of South Carolina via \$765,800 federal funding grant from S.C. Sea Grant, National Oceanic and Atmospheric Administration, NOAA-NOS-OCM-2015-2004324.

2015, received \$10,200 in funding for “Cross-Slope Verification using Mobile Scanning on SCDOT Interstates,” conducted with Clemson Univ. via \$299,600 federal grant from Office of Materials & Research, South Carolina Department of Transportation, Columbia, SC.

2015, received \$15,000 in funding for “SC DOT Assessment Management,” conducted with Clemson Univ. via \$473,800 federal grant from Office of Materials & Research, S.C. Dept. of Transportation, Columbia, SC.

2013, received \$10,000 in funding for “Applying Successfully Proven Measures in Roadway Safety to Reduce Harmful Collisions in South Carolina,” conducted with Clemson University via \$274,000 federal grant from Office of Materials and Research, South Carolina Department of Transportation, Columbia, SC.

2012, received \$10,000 in funding for “Support for the Development and Implementation of an Access Management Program through Research and Analysis of Collision Data,” conducted with Clemson Univ. via \$330,000 federal grant from Office of Materials and Research, S.C. Dept. of Transportation, Columbia, SC.

2012, received \$24,000 in funding for “Integration of the Incident Command System (ICS) Protocol for Effective Coordination of Multi-Agency Response to Traffic Incidents,” conducted with Clemson University via \$354,000 grant from Office of Materials and Research, SC Dept. of Transportation, Columbia, SC.

2011, Awarded \$593,250 grant co-authored by Kevin Bower, William J. Davis, and Jane Werner entitled “Enhancing Undergraduate Civil Engineering Opportunities for Socioeconomically Disadvantaged, Minorities and Females students in South Carolina”, NSF Program Solicitation 09-567 for Scholarships in Science Technology, Engineering and Mathematics (S-STEM).

2011, received \$10,090 in funding for “Operational and Safety Characteristics of Lane Widths” conducted with Clemson University via \$200,000 federal grant from Office of Materials and Research, South Carolina Department of Transportation, Columbia, SC.

2010, received \$10,015 in funding for “Guidelines for Longitudinal Pavement Marking Applications” conducted with Clemson University via \$93,000 federal grant extension from Office of Materials and Research, South Carolina Department of Transportation, Columbia, SC.

2009, received \$1,800 in funding for “Computer Vision Traffic Sensor for Fixed and Pan-Tilt-Zoom Cameras” conducted with Clemson University via a \$150,000 grant through the National Cooperative Highway Research Program (NCHRP) Highway IDEA program.

2007, received \$15,900 in funding for “Guidelines for Longitudinal Pavement Marking Applications,” a 36-month joint research project conducted with Clemson University via a \$195,300 federal grant from Office of Materials and Research, SC Department of Transportation, Columbia, SC.

2006, received \$10,100 in funding for “Support for the Elimination of Roadside Hazards in an Acceptable Clear Zone through the use of Collision Data,” joint research conducted with Clemson University to study statewide highway safety issues via \$244,279 federal grant from the SC Department of Transportation.

2005, received \$1,600 in funding for “Highway Crashes in Rural South Carolina: Affected Populations and Potentially Contributing Factors,” joint research conducted with Clemson University, South Carolina State University and The Citadel funded by the James E. Clyburn University Transportation Center.

2005, received \$6,400 in funding for “Better Management for Speed Control in South Carolina Work Zones” joint research conducted with Clemson University via \$163,171 grant from the SC Dept. of Transportation.

2003, "Intelligent Transportation System for Schools Design," joint research conducted by Clemson University, South Carolina State University and The Citadel (\$1,600) funded by the South Carolina State University Transportation Research Center through \$52,546 grant.

2002, "South Carolina East Coast Greenway, Transportation Safety, Route Location and Facility Needs," served as Co-Principal Investigator on grant conducted by Clemson University and The Citadel (\$6,000) funded by SC State University Transportation Research Center through a \$48,000 grant.

2002, "Intersection Operational and Safety Studies," joint research conducted by Clemson University and The Citadel (\$1,500) funded via \$60,000 grant from State Farm Mutual Automobile Insurance Company administered by S.C. Department of Transportation, Columbia, SC.

2001, received \$11,100 in funding for "Highway Capacity in Work Zones," to conduct joint research with Clemson University via \$175,200 federal grant funded from SC Dept. of Transportation to evaluate traffic flow parameters during lane closures within interstate construction work zones, Columbia, SC.

1999, received \$6,600 in funding for "Evaluation of Retroreflectivity of Interstate Markings," to conduct joint research conducted with Clemson University via a \$179,800 federal grant to study pavement markings on interstate highways for the SC Dept. of Transportation, Columbia, SC.

Externally Funded Non-Research Grants

2012, received \$1,400 in funding from National Science Foundation to attend NSF Scholarships in Science, Technology, Engineering and Mathematics (S-STEM), Projects Meeting, Washington, DC, Oct. 14-16, 2012

2009, "Teaching The Materials Science, Engineering and Field Aspects of Concrete," \$1,000 travel grant to attend a national Undergraduate Faculty Enhancement Workshop sponsored by the Center for Advanced Cement-Based Materials and Portland Cement Association, Skokie, IL, July 13-14, 2009

2003-2008, founding member of a community partnership with Berkeley Charleston Dorchester Council of Governments, to obtain and administer a \$325,000 "Active Living by Design" grant from the Robert Wood Johnson Foundation, for improved land policies, programs and facilities to support healthy life styles.

2008, 5th Active by Design Conference, \$785 travel grant, Robert Woods Johnson Foundation, Portland, OR

2006, 3rd Active by Design Conference, \$1,200 travel grant, Robert Woods Johnson Foundation, Denver, CO

2005, 2nd Active by Design Conference, \$600 travel grant, Robert Woods Johnson Foundation, Chapel Hill, NC

2004, Professors Field Trip, \$700 travel grant, Gilbert Southern Construction, Co., Tampa, FL

2002, Workshop and University Forum on Course Material for Bicycle and Pedestrian Transportation (FHWA-RD-99-198) \$500 travel grant by Turner-Fairbank Highway Research Center, Washington, DC

Citadel Foundation Research Grants

2014, \$3,000 faculty research grant proposal "Evaluation of Cognitive Development of Students Enrolled in ExCEL SC, Excellence in Civil Engineering Leadership for South Carolina."

2013, \$3,000 faculty research grant proposal "Evaluation of Cognitive Development of Students Enrolled in ExCEL SC, Excellence in Civil Engineering Leadership for South Carolina."

2012, \$3,000 faculty research grant proposal "Evaluation of Cognitive Development of Students Enrolled in ExCEL SC, Excellence in Civil Engineering Leadership for South Carolina."

2011, \$3,000 faculty research grant proposal "Evaluation of Cognitive Development of Students Enrolled in ExCEL SC, Excellence in Civil Engineering Leadership for South Carolina."

2009, \$2,250 "Transportation Engineering Research on projects in Active Living by Design, and Traffic Safety," to conduct research on multi-use urban trail use and traffic safety.

2008, \$3,000 "Transportation Engineering Research on projects in Active Living by Design, and Traffic Safety," to conduct research on multi-use urban trail use and traffic safety.

2007, \$3,000 "Sabbatical Supplement" to conduct research with Univ. of NC and Clemson Univ.

2007, \$2,997 "Transportation Engineering Research; A Collaborative Alliance with University of North Carolina and Clemson University," a study focusing on active living by design and traffic safety.

2006, \$2,981 "Exploring Policy Change in Development of Community Trails," a study of policies, funding, and sustainability related physical activity conducted with Univ. of North Carolina, School of Public Health.

Citadel Foundation Presentation and Development Awards

Spring 2019, \$1,100, Presentation of Research grant to attend 98th Annual TRB Meeting in Washington, DC
Spring 2018, \$1,600, Presentation of Research grant to attend 97th Annual TRB Meeting in Washington, DC
Spring 2017, \$2,200, Presentation of Research grant to attend 96th Annual TRB Meeting in Washington, DC
Spring 2016, \$2,100 Presentation of Research grant to attend 95th Annual TRB Meeting in Washington, DC
Spring 2015, \$1,500 faculty development grant to attend "Moving Active Transportation to Higher Ground: Opportunities for Accelerating the Assessment of Health Impacts," Washington, DC, April 13-14, 2015.
Spring 2015, \$2,000 Presentation of Research grant to attend 94th Annual TRB Meeting in Washington, DC
Spring 2014, \$632 Presentation of Research grant to attend 62nd Annual SDITE meeting in Greensboro, GA
Spring 2014, \$1,942 faculty development grant to attend 121st American Society of Engineering (ASEE) Annual Conference and Exposition, Indianapolis, IN, June 15-18, 2014
Fall 2013, \$1,925 faculty development grant to attend Green Streets, Highways and Development Conference "Advancing the Practice," Transportation and Development Institute, ASCE, Austin, TX.
Spring 2013, \$2,151 faculty development grant to attend 120th American Society of Engineering (ASEE) Annual Conference and Exposition, Atlanta GA, June 23-26, 2013
Spring 2013, \$2,180 Presentation of Research grant to attend 92nd Annual TRB Meeting in Washington, DC
Spring 2011, \$2,500 faculty development grant to purchase HCS Plus 2010 traffic capacity software
Spring 2010, \$1,735 Presentation of Research grant to attend 89th Annual TRB Meeting in Washington, DC
2010, \$2,417, Professional Organization Travel award to participate in ITE meetings
2009, \$4,256 Professional Organization Travel award to participate in TRB and ITE meetings
Spring 2009, \$1,712 Faculty Development grant to participate in workshop in San Diego, CA
2008, \$2,767 Professional Organization Travel award to participate in TRB and ITE meetings.
Fall 2008, \$1,449 Presentation of Research grant to participate in conference in Saratoga Springs, NY
Spring 2008, \$1,552 Faculty Development grant to participate in workshop in Washington, DC
2007, \$2,931 Professional Organization Travel award to participate in TRB and ITE meetings.
Spring 2007, \$1,577 Faculty Development grant to participate in workshop in San Diego, CA
Fall 2007, \$603 Presentation of Research grant to participate in conference in Spartanburg, SC
2006, \$2,764 Professional Organization Travel award to participate in TRB and ITE meetings
Spring 2006, \$1,357 Faculty Development grant to participate in workshop in San Diego, CA
2005, \$917 Professional Organization Travel award to participate in ITE meetings
Spring 2005, \$1,389 Faculty Development grant to participate in workshop in San Diego, CA
Spring 2005, \$1,457 Presentation of Research grant to attend 84th Annual TRB Meeting in Washington, DC
Fall 2005, \$1,586 Presentation of Research grant to attend conference in Indianapolis, IN
2004, \$1,193 Professional Organization Travel award to participate in ITE meetings
Spring 2004, \$1,760 Presentation of Research grant to attend 83rd Annual TRB Meeting in Washington, DC
2003, \$744 Professional Organization Travel award to participate in ITE meetings
2002, \$2,800 Professional Organization Travel award to participate in ASCE, ITE and TRB meetings
2001, \$3,473 Professional Organization Travel award to participate in ASCE, ITE and TRB meetings
Spring 2001, \$1,230 Presentation of Research grant to attend 78th Annual TRB Meeting in Washington, DC
2000, \$1,500 Professional Organizational Travel award to participate in ASCE and ITE meeting
Spring 2000, \$1,348 Presentation of Research grant to attend 78th Annual TRB Meeting in Washington, DC
Spring 1999, \$1,180 Presentation of Research grant to attend 78th Annual TRB Meeting in Washington, DC
Fall, 1999, \$1,972 Faculty Development grant to obtain traffic counting equipment including a 24-hour pneumatic tube counter, two intersection turning movement count boards, related computer software and digital camera for use in class room instruction as well as in conducting student projects

Spring 1998, \$1,080 Presentation of Research grant, to attend 77th Annual TRB Meeting in Washington, DC

Professional Development Activities

Citadel delegate, ASCE Department Head, assessment, administration, faculty development, leadership, Drexel University, Philadelphia, PA, May 29-31, 2018.

Invited delegate, "Collaborating with Institutes of Higher Learning to Ensure Quality Research, Research Peer Exchange," SCDOT, Madren Conference Center, Clemson University, Aug. 29, 2018.

Citadel delegate, "Communication, Consensus and Challenging Conversations for Academic Department Heads," Southern Conference, Western Carolina University, Cullowhee, NC, Nov. 16, 2018.

Hampton Roads and Charleston Coastal Resilience Knowledge Exchange Workshop, National Oceanic and Atmospheric Administration (NOAA), S.C. Sea Grant Consortium, College of Charleston, June 15, 2017.

Resilience Tabletop Simulation: What You Need to Know Before and After Disaster Strikes Workshop, U.S. Homeland Security and Resilience; Disaster Simulation; FEMA Leadership in Disaster Exercises; New York City Emergency Management Brief, Jan. 8, 2017.

Adapting Transportation to Climate Change and Extreme Weather Events Workshop, managing transportation disruptions during excessive rainfall; preparing transportation infrastructure for rising sea level and storm surges; Climatic Risks, Adaptation and Resilience in Transportation Sector, Jan. 8, 2017.

9th HAZUS Conf., Achieving Disaster Resilience through Hazus Innovation, Charleston, SC, Nov. 9, 2016

Georgia Sea Grant Program Workshop, NOAA, Savannah State University, Aug. 12, 2016

123rd American Society of Engineering (ASEE) Annual Conference, New Orleans, LA, June 26-28, 2016

Target Zero Traffic Deaths, Highway Safety Conference, Charleston, SC, July 26-28, 2016

SCDOT Research Topic Solicitation Meeting, Columbia, SC, June 1, 2016

SC Highway Engineers Conference, S.C. Department of Transportation, Columbia, SC, Mar. 22-23, 2016

"Beyond Traffic 2045, Trends and Choices," U.S. Dept. of Transportation, Secretary of Transportation, Anthony Foxx, forum on advanced regional mobility planning, Charleston, SC, Oct. 23, 2015

"Moving Active Transportation to Higher Ground: Opportunities for Accelerating the Assessment of Health Impacts", Transportation Research Board, Am. Col. of Sports Medicine, Washington, DC, Apr. 13-14, 2015

94th Annual Transportation Research Board Meeting, Washington, DC, Jan. 10-13, 2015

2015 Charleston Post Industry Conference, Society of American Military Engineers, Oct. 15, 2015

"Transportation Resilience: Planning and Avoiding Disasters," Eno Center for Transportation, national policy conference including former US Secretaries of Transportation, Charleston, SC, Nov. 12, 2014

62nd Annual Meeting of Dist. 5, Institute of Transportation, Greensboro, GA, March 30-31, 2014

121st American Society of Engineering (ASEE) Annual Conference, Indianapolis, IN, June 15-18, 2014

Technical Advisory Committee, Inst. of Transportation Engineers and Robert Wood Johnson Foundation: An Effort to Reduce Childhood Obesity, Transportation's Role in Reducing Childhood Obesity, 2013

Transportation and Development Institute, American Society of Civil Engineers (T&DI, ASCE), workshop on "Evaluating Roadway Sustainability with INVEST and ENVISION: A Joint Workshop from the Federal Highway Administration and Institute for Sustainable Infrastructure," Austin, TX, Nov. 1-6, 2013

61st Annual Meeting of Dist. 5, Institute of Transportation, Charlotte, NC, April 9, 2013

92nd Annual Transportation Research Board Meeting, Washington, DC, Jan. 13-16, 2013

120th American Society of Engineering (ASEE) Annual Conference, Atlanta GA, June 23-26, 2013

91st Annual Transportation Research Board Meeting, Washington, DC, Jan. 21-25, 2012

142nd ASCE Annual Civil Engineering Conference, Montreal, Quebec, Canada, Oct. 18-20, 2012

Mini EXCEED (Excellence in Civil Engineering Education) teaching workshop, The Citadel, Fall 2012

58th Annual Meeting of Dist. 5, Institute of Transportation Engineers, Portsmouth, VA, April 9-16, 2010

SC Section of the American Society of Civil Engineers Annual Fall Meeting in Columbia on Oct. 2, 2009

57th Annual Meeting of Dist. 5, Institute of Transportation Engineers, Birmingham, AL April 19-21, 2009

5th Annual national conference on Active Living Research in San Diego, CA, Feb. 18-21, 2009
88th Transportation Research Board Annual Meeting, Washington, DC, Jan. 10-14, 2009
4th annual national conference on Active Living Research in Washington, DC, April 9-12, 2008
56th Annual Meeting of Dist. 5, Institute of Transportation Engineers, Charleston, SC, Mar. 31-Apr. 1, 2008
87th Transportation Research Board Annual Meeting, Washington, DC, Jan. 12-17, 2008
SC Highway Safety Conference: Striving Together Toward Target Zero, Charleston, SC, Sept. 11, 2007
“Instrument Development Institute,” School of Nursing at Univ. of North Carolina, received an intensive week long training session on qualitative research methods and application of techniques for evaluation of public health and built environment correlations, Chapel Hill, NC, June 11-15, 2007
55th Annual Meeting of Dist. 5, Institute of Transportation Engineers, Knoxville, TN, April 22-25, 2007
3rd Annual Active Living Research Conference in San Diego, CA, Feb. 22-24, 2007
86th Transportation Research Board Annual Meeting, Washington, DC, Jan. 20-24, 2007
54th Annual Meeting of Dist. 5, Institute of Transportation Engineers, Jackson, MS, April 2-5, 2006
Complete Streets Seminar and Workshop, Berkeley Charleston Dorchester, COG, May 10, 2006.
2nd Annual Active Living Research Conference in San Diego, CA, Feb. 16-19, 2006
85th Transportation Research Board Annual Meeting, Washington, DC, Jan. 22-25, 2006
5th Annual Statewide Transportation Curriculum and Research Conference, South Carolina State University, James E. Clyburn University Transportation Center, Dec. 2, 2005, Columbia, SC
53rd Annual Meeting of the Dist. 5, Institute of Transportation Engineers, Savannah, GA, April 10-13, 2005
52nd Annual Meeting of the Dist. 5, Institute of Transportation Engineers, Covington, KY, April 17-21, 2004
NSF Workshop, 34th Frontiers in Education Annual Conference, Savannah, GA, Oct. 20-23, 2004
51st Annual Meeting, Dist. 5, Institute of Transportation Engineers, Winston Salem, NC, April 13-16, 2003
81st Transportation Research Board Annual Meeting, Washington, DC, Jan 12-16, 2002
50th Annual Meeting, Dist. 5, Institute of Transportation Engineers, New Orleans, LA, Apr. 21-24, 2002
“Caribbean Realities, The Bridge to the Future,” SC World Trade Center, Charleston, June 7, 2002
49th Annual Meeting, Dist. 5, Institute of Transportation Engineers, Greenville, SC, April 15-19, 2000
“Professor’s Training Seminar in Asphalt Technology,” attended a two-week professor’s training seminar, National Center for Asphalt Technology, Auburn University, June 15-26, 1998

Service Activities

My service record includes accepting positions on behalf of the college, department, students, community and engineering profession; and organizing numerous events and activities to advance the scholarly reputation of The Citadel and to create valuable learning experiences to enhance student development.

Service to College

2018, established Construction Engineering curriculum in day and evening Citadel catalogs and launched program with initial course offerings in Fall Semester, 2018.

Member, Faculty Senate, Citadel Parking Advisory Committee, 2018 -present

Member, Consultant Selection Committee, Civil Engineering \$500,000 Indefinite Delivery Contract, 2017

Member, Citadel Faculty Senate, 2016-present

Member, Citadel Institutional Review Board, 2009-2017

Member, Undergraduate Research Advisory Council, 2016-2017

Member, Faculty Tenure and Promotion Committee, 2013-2017

Member, Faculty Excellence and Sabbaticals Committee, 2017

Member, Citadel Senate Strategic Initiatives Committee, 2017

Title IX Investigator, 2014-2017

Member, Citadel Resident Engineer Selection Committee, 2014

Member, Citadel Sabbaticals Committee, 2008-2014
Member, Citadel Curriculum Committee, 2008-2009
Member, Citadel Accident Review Board, 2002-2009
Member, Citadel Research Committee, 2003-2007
Academic Advisor, Band Company, 1999-2007
Chair, Citadel Research Committee, 2005-2006
Member, Citadel Faculty Council, 2003-2007
Secretary, Citadel Faculty Council, 2005-2006
Member, Citadel Community Affairs Committee, 2002-2003
Member, Citadel Student Awards Committee, 1998-2001
Member, Consultant Selection Committee, Johnson-Hagood Stadium Improvements, 2001

Service to Department and School

2018, Chaired Faculty Search Committee, resulting in hiring Dr. John Ryan.
2018, Coordinated Col Thomas Dion classroom dedication ceremony and 50th reunion gift, raising \$53,400 in funds to purchase surveying equipment, 116 donors, 150 ceremony participants, Nov. 10, 2018.
2018, Civil & Environmental Engineering, Construction Engineering Departmental Retreat, Academic Year Kick off workshop, including 11 faculty, 2 staff, Aug. 16, 2018.
2018, Freshman Orientation, hosted event welcoming 73 freshmen civil and construction engineering students, program including 7 upper classmen and 9 department faculty and staff, Aug. 14, 2018.
2018, Chaired Faculty Search Committee for Construction Engineering, resulting in hiring Dr. Rebekah Burke and Dr. Mostafa Batouli.
2018, Chaired Staff Search Committee, resulting in hiring Program Coordinator, Stephanie Fye and Laboratory Technician, Olga Zeller.
2018, Senior Awards Banquet, Civil & Environmental Engineering, April 17, 2018.
Newsletter Editor, "The Citadel, Civil & Environmental Engineering Department News," 2016
Sponsor, Dr. Kweku Brown application for faculty position, resulting in hiring Dr. Brown, 2016
Graduate, Citadel Online Teaching Faculty Academy, 8-week program, April 18, 2016
Chair, CEE Dept. Awards, Scholarship and Advancement (ASA) Committee, 2013-2017
Recruited Adj. Professor, Ms. Jennifer Biehl, PE, PTOE, to teach CIVL 305, Transportation Engineering, 2014
Chair, CEE Dept. Graduate School Committee, 2013-2017
Member, School of Engineering Strategic Planning Committee, 2012-2017
2013, Member, CEE Dept. Faculty Search Committee, resulted in hiring Dr. Mary Katherine Watson, Dr. Dimitra Michalaka, and Dr. Simon Ghanat
2013, Member, Mechanical Engineering Faculty Search Committee, resulted in hiring Dr. Monika Bubacz and Dr. Robert Rabb.
CEE Department Guidelines for Annual Performance Evaluation of Faculty, worked with Department Head and faculty to adopt updated guidelines for teaching, research and service, Mar. 2013
Reviewer, School of Engineering, Study Abroad Student applications and recommendations to Dean, 2013
Member, CEE Dept. Capstone Committee, 2012-2016
Chair, CEE Dept. Assessment Committee, published "CEE Dept. Assessment End of Year Report," worked with faculty and Department Head to collect and analyze assessment data, 2003-2009
Member, Masters of Project Management Committee, Fall 2009
Member, CEE Dept. Strategic Planning Committee, Fall 2009
Chair, ASCE Policy Statement 465 Action Planning Committee, 2007-2008
2008, Submitted \$113,000 proposal to construct an ASCE Student Chapter special projects workshop

2007, procured \$20,000 in concrete and asphalt lab testing equipment for educational instruction
2007, procured \$2,000 in traffic data collection equipment for educational instruction and research
Chair, CEE Department Outreach Committee, prepared year-end assessment reports, 2006-2007
2006, CEE Department Standards for Tenure and promotion, worked with Department Head and faculty to adopt updated standards for teaching, research and service
Organizing Committee, National Engineers Week Activities at The Citadel, 1999-2006
2005, organized on-campus US Army Corps of Engineers Open House including 15 display booths and 150 students and local professionals
Newsletter Editor, "News from LeTellier Hall," CEE Dept. Newsletter, 2000-2006
Chair, Faculty Search Committee, resulting in hiring of Dr. Edward Hajduk, 2005-2006
Chair, "Geographic Information Systems in Homeland Security," on-campus technical workshop for law enforcement, facility management, urban planning, emergency services, fire safety/prevention, military base security professionals and students, Dec. 6, 2002
Chair, CEE Capstone Design Course Review Committee, 2003-2004
Chair, Faculty Search Committee, resulting in hiring of Dr. Kevin Bower, 2002-2003
Citadel Liaison, East Cooper Habitat for Humanity, 1998-2000

Service to Students

2018, administered scholarship awards and facilitated ceremony for \$175,000 in 22 academic scholarships to 47 civil engineering students, Nov. 9, 2018.
2018, Citadel Institute of Transportation Engineers (ITE) Student Chapter, Approved Club Charter, Inaugural Chapter Meeting, and Ceremony, Feb. 2, 2018.
Mar 1-3, 2018, 2018 Construction Institute Summit, American Society of Civil Engineers, facilitated 6-student Citadel delegation to participate in national engineering conference, Ft. Worth, TX.
2018, Citadel Leadership Day Symposium Event, organized & facilitated 3-session program, Mar. 23, 2018.
2018, Citadel Leadership Day facilitated student workshop at TY Lin/Lindbergh Associates, Oct. 17, 2018.
Feb. 25, 2018, Introduce a Girl to Engineering, Girl Scout and Society of Women Engineers K-12 Outreach Event, facilitated event involving 40 volunteers and 100 Girl Scout participants who received merit badges.
Apr. 5-7, 2018, ASCE Carolinas Conference hosted by Duke University, accompanied 40-member student competing in 10 engineering events including 10 colleges/universities; Citadel results included: 1st Daniel Mead Paper, 2nd Concrete Canoe, 3rd Hydraulics, Durham, NC.
2017, international student exchange with Argentine tall ship Libertad, including Ships' Officers, Argentine Naval Academy Midshipmen, and local dignitaries, 2017 Charleston Tall Ships Festival, May 22, 2017.
2017, Committee Chair, awarded scholarships and organized ceremony for \$150,000 in 23 academic scholarships to 48 civil engineering students, Nov. 9, 2017.
2017, Citadel Leadership Day Symposium Event, organized & facilitated 3-session program, Mar. 17, 2017.
2017, Citadel Leadership Day facilitated student workshop at TY Lin/Lindbergh Associates, Oct. 18, 2017.
2016, Faculty Advisor, ASCE Carolinas Conference, Surveying Competition, Greensboro, NC, April 2016.
2015, Beyond Traffic 2045, Trends and Choices, 20 students participated, Charleston, SC, Oct. 23, 2015.
2015, Faculty Advisor, ASCE Carolinas Conference, Concrete Beam Team, Atlanta, GA, April 9-11, 2015.
2015, Faculty Advisor, Student Team, Sacred Heart Catholic Church Traffic and Transportation Study.
2014, Transportation Resilience: Planning & Avoiding Disasters, Eno Foundation, 3 students participated in national forum including two former US Secretaries of Transportation, Charleston, SC, Nov. 12, 2014.
2014, Co-Faculty Advisor, ASCE Carolinas Conference, \$65k budget, Charleston, SC, March 6-8, 2014.
2013, Cadet Kyle Taylor, student profile highlighting his academic and extracurricular activities, ITE Journal, Vol. 83, No. 1, ISSN 0162-8178, Institute of Transportation Engineers, Washington, DC, Jan. 2013.
2013, Faculty Advisor, Citadel Transportation Engineering Competition Team, 1st place, 2013 ASCE Carolinas Conference, hosted by University of South Carolina.

2013, Faculty Advisor, Citadel Daniel W. Mead Student Paper Contest, 1st place, 2013 ASCE Carolinas Conference, hosted by University of South Carolina.

2012 National Winner, Robert Ridgway Student Chapter Award, American Society of Civil Engineers (ASCE), Citadel Chapter, Reston, VA, student delegation received award a National Meeting in Montreal, Canada and organized on-campus award ceremony hosted by ASCE past-president Kathy Caldwell

2012, Faculty Advisor, School of Engineering, Professional Activities Event Feb. 2, 2012

2012, hosted, Himleright Seminar, Mr. Gus Bell, department-wide public works presentation, Jan. 23, 2012

2012, Faculty Advisor, Citadel ASCE Chapter, 3rd Place, Carolinas Conference, 12 event competitions and 8 colleges/universities, hosted by Clemson Univ., winner of "Dr. David Bayer Sportsmanship Award."

2011, Faculty Advisor, American Society of Civil Engineers (ASCE), Citadel Chapter, National Winner, Richard J. Scranton Outstanding Community Service Award, Reston, VA

2011, Faculty Advisor, Citadel ASCE Chapter, Robert Ridgway Award Finalist, Reston, VA

2011, Faculty Advisor, Citadel ASCE Chapter, South Carolina Section ASCE Service Award for Outstanding Service to the Profession, Columbia, SC

2011, Faculty Advisor, Citadel ASCE Chapter, 20th National Steel Bridge Competition, Citadel finished 32nd of 48 colleges/universities, hosted by Texas A&M Univ. May 20-21, 2011

2011, Faculty Advisor, Citadel Undergraduate Research Conference, Alvin Hooper student research project and poster presentation, "Impacts of the Panama Canal Expansion on Key US Eastern Seaboard Ports"

2011, Faculty Advisor, CEE Senior Banquet to recognize ASCE leaders, competition results and student accomplishments for 50 graduating students, April 20, 2011

2011, Faculty Advisor, worked with Society of American Military Engineers (SAME) Charleston Post leaders to adopt Citadel student club charter for civil and electrical engineering students

2009-2011, Faculty Advisor, The Citadel Student Chapter, American Society of Civil Engineers

2010-2011, Faculty Advisor, 18-member CEE Student Advisory Council

2010, Faculty Advisor, American Society of Civil Engineers (ASCE), Citadel Chapter, National Winner, Richard J. Scranton Outstanding Community Service Award, Reston, VA

2010, Faculty Advisor, Citadel ASCE Chapter, Robert Ridgway Award Finalist, and ASCE Region 4 Distinguished Chapter Award, Reston, VA

Apr. 14-16, 2011, ASCE 60-member student delegation, NC State University, 3rd Place, Carolinas Conference, 16 event competitions and 8 colleges/universities, Raleigh, NC.

Jan. 14-15, 2011, Faculty Advisor, National Workshop for Student Leaders, Portland, ME, ASCE

May 28-19, 2010, 19th National Student Steel Bridge Competition, Purdue University

Apr. 8-10, 2010, ASCE Carolinas Conference, 45-member student delegation, Duke University, 1st Place, Carolinas Conference, 12 event competitions and 8 colleges/universities, Durham, NC.

2010, Faculty Advisor, 10 student delegation participation in Inst. of Transportation Engineers Technical Conference and Exhibit "Meeting Transportation's 21st Century Challenges," Savannah, GA, Mar. 16, 2010

2010, Faculty Advisor, Kyle Wiegand student internship with SC State Attorney General's Office

Feb. 13-14, 2010, Faculty Advisor, National Workshop for Student Leaders, Atlanta, GA, ASCE

2009, employed five undergraduate students to work during summer internship on funded research ASCE student community service project, Wagener Terrace Neighborhood Association, 2009-2015

Academic Advisor to 25 civil engineering students per year, 1998-2016(excluding sabbatical year)

2009, Faculty Advisor, obtained \$3,500 grant for 5 students to participate in 88th Transportation Research Board Annual Meeting, Washington, DC, Jan. 11-14, 2009

2009, Faculty Advisor, organized 30 student delegation to participate in American Road & Transportation Builders Association (ARTBA) National Convention, Charleston, SC, Oct. 6-9, 2009

2008, Faculty Advisor, obtained funds and organized 10-student delegation to participate in 56th Annual Meeting of District 5, Institute of Transportation Engineers, Charleston, SC, Mar. 31-Apr. 1, 2008

April 1-3, 2007, Student research presentation, Timothy Lewis, American Society of Engineering Educators Southeast Section Annual meeting, Louisville, KY
Nov. 3, 2006, ASCE community service project, FestiVELO de Charleston
Oct. 28, 2006, ASCE community service project, Charleston Moves Fest
Summer 2006, employed two undergraduate students to work on funded research
Apr. 7, 2006, Faculty Advisor, ASCE Concrete Canoe Competition, James Island County Park
Feb. 14, 2005, US Army Corps of Engineers Open House, Citadel Alumni Center
Nov. 6, 2005, ASCE community service project, Charleston Cyclefest
Feb. 27, 2004, US Army Corps of Engineers Open House, Mark Clark Hall
Apr. 3-6, 2003, ASCE Carolinas Conference, 40-member student delegation, Raleigh, NC
Faculty Advisor, The Citadel ASCE Student Chapter, 1998-2002
Apr. 4-7, 2002, ASCE Carolinas Conference, 40-member student delegation, Durham, NC
Sept. 19, 2002, ASCE community service project, Mepkin Abbey, Moncks Corner, SC
Feb. 7-9, 2002, Faculty Advisor, National Workshop for Student Leaders, Orlando, FL, ASCE
1998-2001, Faculty Advisor, Student Advisory Committee, Dept. of CEE,
Apr. 6-8, 2001, ASCE Carolinas Conference, 43-member student delegation, Charlotte, NC
Sept. 18, 2000, GIS Users Group Workshop and Trade Show, Mark Clark Hall
Apr. 6-8, 2000, ASCE Carolinas Conference, 42-member student delegation, Atlanta, GA
May 27-29, 1999, ASCE National Steel Bridge Competition, 5-member student delegation, Anchorage, AK
Apr. 9-11, 1999, ASCE Carolinas Conference, 35-member student delegation, Greensboro, NC
Fall 1999, ASCE Community Service Project, 700 hours, East Cooper Habitat for Humanity
Spring 1999, ASCE Community Service Project, Styles Point Elementary School traffic study
Apr. 17-19, 1998, ACSE Carolinas Conference, Hosted Conference at The Citadel

Service to Community

Invited presenter, NOAA, SC Sea Grant, and Charleston Resilience Network, community education seminar and workshop, Town of Mt. Pleasant, SC, attended by 150 residents, National Guard Armory, Nov. 8, 2018.
2018, Richland County Schools, ALERT K-12 Student Outreach, provided interactive engineering learning sessions for middle schools 8 middle school student cohorts, involving 12 faculty, 2 staff, 75 participants.
Board of Directors, Wagener Terrace Neighborhood Association, Charleston, SC, 2013-2017.
East Coast Greenway National Convention, for 2,000-mile East Coast Greenway, Charleston, Nov. 7, 2014.
Charleston Council for International Visitors, Chair, Citadel Professor Donald Sparks, hosted dinner for 5 international high school English teachers, U.S. State Department exchange program, June 23, 2014.
K-12 Outreach, 4th annual ASCE Upstate Branch Popsicle Bridge Competition, Greenville, SC Feb. 25, 2012
K-12 Outreach, 3rd annual ASCE Upstate Branch Popsicle Bridge Competition, Greenville, SC April 9, 2011
Ex Officio Member, Charleston County Medial Society, School Health Committee, 2009-2010
K-12 Outreach, University School of the Lowcountry, Nov. 18, 2009
Board of Directors, Charleston Moves, non-profit organization promoting healthy communities, 2008 -2016
Community Partner, "Active Living by Design," Robert Wood Johnson Foundation, 2003-2008
Member, CHATS Transportation Plan Advisory Group, Berkeley-Charleston-Dorchester COG, 2004
Local Arrangements Chair, East Coast Greenway Alliance Annual Conference, Charleston, SC, Nov. 2003
K-12 Outreach, "Bridge Building Workshop," North Charleston High School, Jan. 29, 2003
Judge, First Baptist School Science Fair, Charleston, SC, Mar. 14, 2002
Traffic engineering assistance, Town of Seabrook Island, SC, Fresh Fields Development, Oct. 2002
Transportation Delegate, Noisette Development Charrette, N. Charleston, SC, Oct. 2002

K-12 Outreach, "Implementing Engineering Concepts Day," Kingstree High School, Mar. 9, 2002
K-12 Outreach, "Bridge Building Workshop," North Charleston High School, Jan. 30, 2002
Highway safety assistance, SC Highway Patrol, Coastal Accident Investigation Team, Summer 2000
K-12 Outreach, "Model Bridge Competition," Dorchester District 2 middle schools, Dec. 6, 1999
Judge, 9th Grade Science Fair, Ashley Hall School, 1998-1999
Member, Congestion Management Advisory Committee, BCD-COG, 1998-1999
K-12 Outreach, "Bridge Building Workshop," Mason Prep School, Oct. 24, 1998
Member, Mayor's Bicycle Planning Committee, City of Atlanta, 1995-1997

Service to Profession

Hosted Workshop, "The Driven Pile Technical Seminar," Pile Drivers Contractor Assoc. of South Carolina, 1-day technical seminar, 116 participants, Altman Center, The Citadel, Mar. 29, 2018.
Member, Health and Transportation Subcommittee, ADD50(1), Transportation Research Board, Joint Subcommittee of ADD50, ADD40, ADB10, ABJ30, 2016-present.
Hosted Statewide Meeting, Institute of Transportation Engineers, South Carolina Section, including technical program and luncheon, 40 participants, Greater Issues Room, The Citadel, April 20, 2018
Facilitated planning for connected vehicles workshop, Center for Connected Multimodal Mobility, Institute of Transportation Engineers, South Carolina Section, 30 participants, Greenville, SC, June 26, 2018.
Hosted monthly meetings of American Society of Civil Engineers, Eastern Branch, involving a technical program/luncheon, avg. 40 participants, The Citadel, Jan., Feb, Mar., April, May, Sept., Oct., Nov. 2018.
Associate Director, Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE), University Transportation Center, USDOT, Office of Research and Technology, Univ. of Florida, Auburn Univ., The Citadel, Florida International, Georgia Tech, Jackson State, Univ., N.C. State Univ., Tennessee Tech., Univ. of Alabama-Birmingham, Univ. of North Carolina, 2017- present.
Associate Editor, Journal of Transportation of the Institute of Transportation Engineers, ISSN 2162 1616, Advancing transportation knowledge and practices for the benefit of society, Institute of Transportation Engineers, Washington, DC, 2015-2016.
SC Institute of Transportation Engineers Newsletter contributor, publish articles highlighting Citadel student activities in statewide newsletter publications, 2008-2016.
Reviewer, National Academy of Science, Transportation Research Record, 1996-2019
Principal Technical Advisor, 25-member Intergovernmental Working Group, Battery 2 Beach, 2011-2017
South Carolina Society for Professional Land Surveyors, City Engineering Seminar, hosted statewide continuing education technical conference, Citadel Campus, Dec. 6, 2014.
Reviewer, Development of Pedestrian & Bicycle Transportation Course Modules (2012-028), Southeastern Transportation Innovation, Development and Education (STRIDE), Univ. of Florida, April 2014.
Member, Strategic Plan Annual Meeting Committee, Dist. 5, Inst. of Transportation Engineers, 2009-2014
Technical Advisory Committee, Inst. of Transportation Engineers and Robert Wood Johnson Foundation: An Effort to Reduce Childhood Obesity, Transportation's Role in Reducing Childhood Obesity, 2013.
SC Institute of Transportation Engineers Meeting, "How Engineers Should Communicate with Elected Officials," hosted statewide meeting, Citadel, June 13, 2013.
ASCE Carolinas Conference, Surveying Event and Transportation Event Judge, Clemson Univ., Mar. 2012
Society of American Military Engineers (SAME), Citadel Student Club Charter, Nov. 1, 2011
Member, TRB Highway Capacity and Quality of Service, Subcommittee, 1996-2011
Chair, Chair of Serious Crash Type Committee for implementation of SC Strategic Highway Safety Plan, SC Department of Public Safety and SC Department of Transportation, Columbia, SC, 2007-2009
Reviewer, Chapter 23, Off-Street Pedestrian and Bicycle Facilities, 2010 Highway Capacity Manual, 2009
Member, Strategic Plan Annual Meeting Committee, ITE District 5, 2009-2014

Elected Office, SC Section Representative, Dist. 5 Executive Board of Direction, ITE, 2008-2010
Reviewer, American Society of Civil Engineers and American Planning Association, National Traffic Calming Manual, ASCE Press, Reston, VA, July 14, 2008
Local Arrangements Chair, 2008 Annual Meeting in Charleston, Dist. 5, Institute of Transportation Engineers, 68 professional sessions, 400 participants, \$108,000 budget, Mar. 30 – Apr. 2, 2008
Member, TRB Committee on Bicycling (A3B07), 1996-2007
Chair, Education, Training & Student Chapter Committee, Dist. 5, ITE, 2003-2006
Member, Charleston Joint Engineers Council, Citadel Representative, 1999-2006
Member, Charleston Area Transportation Study, Advisory Council, 2004-2005
Chair, TRB Sub Committee on Education and Awareness (A3A10), 2002-2004
Member, ASCE Intermodal Committee, 1999-2004
Vice Chair, Education, Training & Student Chapter Committee, Dist. 5, ITE, 2001-2002
Publications Chair and Newsletter Editor, Dist. 5, ITE, 1999-2002
Chair, Executive Committee, ASCE Urban Transportation Division, 2001
Reviewer, Chapters, 11, 18, 19, 2000 Highway Capacity Manual, 1999-2000
Secretary, Executive Committee, ASCE Urban Transportation Division, 1997-2000
Assistant Newsletter Editor, Dist. 5, ITE, 1998-1999
Chair, ASCE Human Powered Transportation Committee, 1995-1997
Reviewer, Guide for the Development of Bicycle Facilities, AASHTO, 1996-1997
Member, Education, Training & Student Chapter Committee, Dist. 5, ITE, 1984-1986

Additional Scholarly and Service Activities

2016 SCDOT Research Topic Solicitation, submitted six research project topics including: Rural Interstate Congestion, Big Data Analytics, Seasonal Variation, Bicycle LOS, and Marine Terminal Heavy Vehicles Impacts, and participated in review meeting to prioritize research projects for \$3.6m in FHWA funds.
Prepared “A Study of Sign Life Expectancy,” submitted to Office of Materials and Research, South Carolina Department of Transportation, prepared by Clemson University and The Citadel, \$15,070 sub agreement of \$179,000 grant application, Oct. 2015, (not awarded)
Prepared “Center for Innovations in Transportation Sustainability (CITRANS),” proposal submitted to US Department of Transportation, Strategic Goal Area in Environmental Sustainability, Clemson Univ. and The Citadel, \$50,000 sub-agreement of \$500,000 grant application, Mar. 2013, (not awarded)
Prepared “Methods and Technologies for Collecting Pedestrian and Bicycle Volume Data, NCHRP Project 07-19” proposal submitted to Nat. Coop. Highway Research Program, Transportation Research Board, Clemson Univ., Citadel, \$20,000 sub agreement of \$400,000 grant application, Nov. 2011, (not awarded)
Prepared \$360,000 interdisciplinary research grant proposal, Janice Key, M.D., and William J. Davis, “Healthy Kids, Healthy Communities,” proposal submitted to Robert Wood Johnson Foundation (RWJF) by The Medical University of South Carolina, Department of Pediatrics, Feb. 2009, (not awarded)
Ex Officio member, Charleston County Medial Society, School Health Committee, focusing on student health and safety issues of children in public and private schools throughout Charleston County, 2008-2009.
Chair, Statewide Safety Committee: Serious Crash Type Committee, SC Strategic Highway Safety Plan, SC Department of Public Safety and SC Department of Transportation, Columbia, SC, 2007-2008.
Published “SC Section Institute of Transportation Engineers 2009 Annual Report,” received regional recognition as 2009 Outstanding Section Runner-Up Award (Group II), presented by District 5 ITE for advancing transportation engineering for technical, educational and training accomplishments.
Published “SC Section Institute of Transportation Engineers 2008 Annual Report,” received regional recognition as 2008 Outstanding Section Award (Group II), presented by District 5 ITE for advancing transportation engineering for technical, educational and training accomplishments.

Member, Statewide Advisory Committee, South Carolina DOT Transportation Technology Transfer (T³) Program, \$225,000 annual Federal Highway Administration grant to dissemination research and technical information to engineering practitioners, 1998-2007.

Additional Scholarly and Technical Publications

Sarasua, Wayne, Jennifer Ogle, William J. Davis, Kweku Brown, "Midblock Crash Analysis Using Precisely Geocoded Crashes," FHWA-SC-20-01, Grant SPR 734, South Carolina Department of Transportation, Office of Material and Research, Federal Highway Administration, 545p, May 2020.

Sarasua, Wayne, Xi Zhao, **William J. Davis**, "Active Traffic Monitoring Through Large Scale Processing of Aerial Camera Array Networks", Final Report, Center for Connected Multimodal Mobility (C2M2), University Transportation Center, U.S. Department of Transportation (USDOT), Office of Research and Technology, 33p, Dec. 2020.

Sarasua, Wayne, Jennifer Ogle, **William Davis**, "Highway Cross-Slope Measurement Using Mobile LiDAR," Final Report, FHWA-SC-18-07, Grant SPR 719, South Carolina Department of Transportation, Office of Material and Research, Federal Highway Administration, 220p, June 2018.

Ogle, Jennifer, Wayne Sarasua, William J Davis, Nathan Huynh, Mashrur Ronnie Chowdhury, "Applying successfully proven measures in roadway safety to reduce harmful collisions in SC," Final Report, FHWA-SC-17-08, Grant SPR 711, South Carolina Department of Transportation, Office of Material and Research, Federal Highway Administration, 220p, June 2017.

Ogle, Jennifer, Ronnie Chowdhury, Nathan N Huynh, William Davis, Yuanchang Xie, "Integration of the incident command system (ICS) protocol for effective coordination of multi-agency response to traffic incidents," Final Report, FHWA-SC-17-07, Grant SPR 699, South Carolina Department of Transportation, Office of Material and Research, Federal Highway Administration, 106p, June 2017.

Sarasua, Wayne, **William Davis**, Jennifer Ogle, Mashrur Chowdhury, Nathan Huynh, "Support for The Development and Implementation of An Access Management Program Through Research and Analysis of Collision Data," FHWA-SC-15-02, Final Report, Office of Materials & Research, S.C. Dept. of Transportation, U.S. Dept. of Transportation, Federal Highway Administration, 128p, Nov. 2015.

Ogle, Jennifer, Wayne A Sarasua, William J Davis, "Operational and Safety Characteristics of Lane Widths," Final Report, FHWA-SC-15-01, Grant SPR 693, Office of Materials & Research, S.C. Dept. of Transportation, U.S. Dept. of Transportation, Federal Highway Administration, 268p, Jan. 2015.

ITE/RWJF Technical Advisory Committee, Exploring Transportation's Role in Reducing Childhood Obesity, *ITE Journal*, Vol. 83, No. 1, ISSN 0162-8178, Inst. of Transportation Engineers, Washington, DC, Jan. 2013.

Ogle, Jennifer, Wayne Sarasua, **William Davis**, "Operational and Safety Characteristics of Lane Widths," Final Report, Office of Materials & Research, South Carolina Department of Transportation, Mar. 27, 2013.

Sarasua, Wayne, Langsford Bell, **William J. Davis**, "Estimating the Lifecycle of Pavement Markings on Primary And Secondary Roads in South Carolina," Final Report, FHWA-SC-12-01, Grant SPR 669, S.C. Dept. of Transportation, Office of Material and Research, Federal Highway Administration, 147p, Feb. 2012.

Davis, William, "Statewide Run Off the Road Crashes: Engineering, Education, Enforcement, EMS, and Policy Improvements, SC Strategic Highway Safety Plan," SCDOT, Columbia, SC, Nov. 28, 2008.

Sarasua, Wayne, Mashrur Chowdhury, **William Davis**, Jennifer Ogle, "Better Management for Speed Control in Work Zones," Final Report, FHWA-SC-06-10, Grant SPR 658, S.C. Dept. of Transportation, Office of Material and Research, Federal Highway Administration, 106p, Dec. 2006.

Sarasua, Wayne, William Davis, Mashrur Chowdhury, "Evaluation of Interstate Highway Capacity in Short-term Work Zones: Phase 2," Final Report, FHWA-SC-05-02, Grant SPR 627, Office of Materials & Research, S.C. Dept. of Transportation, U.S. Dept. of Transportation, Federal Highway Administration, 50p, May 2005.

Davis, William, Wayne Sarasua, Pramoda Gode, Jim Gordon, "South Carolina East Coast Greenway; Transportation Safety, Route Location & Facility Needs Study," funded by James E. Clyburn University Transportation Center, SC State University, Aug. 2004.

Clark, David, Matt Edwards, Zhang Huang, **William Davis**, "Intersection Operational and Safety Study – Sam Rittenberg Blvd. And Ashley River Road," South Carolina Department of Transportation, underwritten by State Farm Mutual Automobile Insurance Company, Nov. 2003.

Sarasua, Wayne, David Clarke, William J Davis, "Evaluation of interstate highway capacity in short-term work zones," Final Report, FHWA-SC-03-02, Grant SPR 627, Office of Materials & Research, S.C. Dept. of Transportation, U.S. Dept. of Transportation, Federal Highway Administration, 50p, May 2003.

Sarasua, Wayne, David Clarke, William J Davis, "Evaluation of Interstate Pavement Marking Retroreflectivity," Final Report, FHWA-SC-03-01, Grant SPR 595, Office of Materials & Research, S.C. Dept. of Transportation, U.S. Dept. of Transportation, Federal Highway Administration, 85p, April 2003.

Clark, David, Matt Edwards, Zhang Huang, **William Davis**, "Intersection Operational and Safety Study – Dorchester Road and Ladson Road," South Carolina Department of Transportation, underwritten by State Farm Mutual Insurance Company, Nov. 2003.

Dipak Patel, Brett Harrelson, **William J. Davis**, "Evaluating Operational Differences Between Single Point and Tight Diamond Urban Interchange Configurations in South Carolina," Southern Section, Dist. 5, Institute of Transportation Engineers, Dec. 2000.

Dipak Patel, Brett Harrelson, **William Davis**, Susan Ruinen, Fred Kicklighter "South Carolina Truck Network: Administrative Evaluation and Needs Assessment," Technical Committee Report, SC Section, Institute of Transportation Engineers, Dec. 2000.