



KITTELSON LLC

FORENSIC TRANSPORTATION ENGINEERING

JOSEPH D. BLASCHKE, D.ENG., P.E. **SENIOR PRINCIPAL ENGINEER**

EDUCATION

Doctor of Engineering, Texas A&M University, 1983
M.E., Civil Engineering, Texas A&M University, 1972
B.S., Civil Engineering, Texas A&M University, 1971

PROFESSIONAL STATUS

Licensed Professional Engineer, State of Texas, License No. 42200 (1977) - Active
Licensed Professional Engineer, State of Louisiana, No. 31673 (2005) - Retired
Licensed Professional Engineer, State of Mississippi (Limited) License No. 20115LTD (2011) - Active

PROFESSIONAL ASSOCIATIONS

Institute of Transportation Engineers (Life Member)
Transportation Research Board
National Society of Professional Engineers
Texas Society of Professional Engineers
Chi Epsilon, Honor Fraternity

PROFESSIONAL EXPERIENCE

1973-1975 Second Lieutenant, U.S. Army Corps of Engineers, Ft. Carson, Colorado

1975-1977 Captain and First Lieutenant, U.S. Army Transportation Corps, Military Traffic Management Command Transportation Engineering Agency, Ft. Eustis, Virginia

1977 Traffic Engineer II, Traffic and Transportation Department, City of Houston

1978-1979 Area Traffic Engineer, Harris and Montgomery Counties, Texas Office of Traffic Safety

1979 Assistant Director, Traffic and Transportation Department, City of Houston

1979-1980 Civil Engineer, S. Craig Hollmig, Inc., New Braunfels, Texas

1980-1985 Vice President, Walton & Associates/Consulting Engineers, Inc., Bryan, Texas

- 1985-1991 Assistant Research Engineer, Design and Implementation Program, Texas Transportation Institute, Texas A&M University, College Station, Texas
- 1987-1993 Senior Lecturer, Civil Engineering Department, Texas A&M University, College Station, Texas
- 1989-2015 President and Principal Engineer with Transportation Engineering Analysts, College Station, Texas. Provided professional engineering consulting services for private individuals, public entities, architectural and engineering firms, and law firms in areas of professional interest.
- 2015- Senior Principal Engineer with Kittelson LLC, College Station, Texas. Providing professional engineering and expert witness services supporting individuals, legal counsel, transportation agencies, insurance providers, and risk managers.

COLLEGE COURSES TAUGHT

- 1991 Traffic Engineering Design, CVEN 625, Graduate Course, Texas A&M University
- 1987-1993 Integrated Transportation Systems, CVEN 632, Graduate Course, Texas A&M University
- 1987-1989 Traffic Signal Design, CVEN 689, Graduate Course, Texas A&M University
- 1988-1991 Transportation Engineering, CVEN 307, Undergraduate Course, Texas A&M University

EXPERT WITNESS ACTIVITIES

As a qualified expert in the area of highway design, traffic engineering, and accident reconstruction, assisted attorneys in private practice, insurance companies, and government attorneys, in tort cases filed in the states of Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Florida, Georgia, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Washington, West Virginia, Wisconsin, Wyoming, and in Canada.

Analyzed the design and operation of traffic control devices, including traffic signals, to determine if their presence or absence contributed to or caused an accident to occur.

Analyzed roadway construction plans to determine if design errors were present or if the traffic control plans for the project was satisfactory.

Analyzed existing roadway geometry and traffic control devices to determine if roadway design, operation, or maintenance contributed to or caused an accident to occur.

Reconstructed more than 600 accidents for litigation purposes. As a civil engineering graduate, successfully completed 12 course credit hours of simple and complex physics courses, which provide the foundation for accident reconstruction analyses. Knowledge gained from various civil engineering courses, such as strength of materials, concrete design, and bituminous materials provide understanding of how damages to vehicles, pavement surfaces, and roadway appurtenances reflect impact speeds. Understanding highway design principles, appropriate application of traffic control devices, plus having the expertise in driver behavior as a traffic engineer, provides necessary background for understanding the effects of the highway environment on the motorists involved in accidents.

Assisted in producing animations of accidents to illustrate or demonstrate how the accident occurred.

PUBLICATIONS

Books/Pamphlets

Transportation Planning Guidelines for Small Communities, Prepared for the Texas Office of Traffic Safety and Region IV Education Service Center, Houston, Texas, May 1978.

Journals and Proceedings

“Using Research in Defending Tort Liability Cases,” Transportation Research Circular 361, Transportation Research Board, National Research Council, Washington, D.C., July 1990.

“Proposed Procedure for Selecting Traffic Signal Control at School Crossings,” with James A. Bonneson, Transportation Research Record 1244, Transportation Research Board, National Research Council, Washington, D.C., 1989.

“Defendant’s Viewpoint – Importance of Traffic Records,” presented at the 15th Annual Forum on Traffic Records Systems, El Paso, Texas, July, 1989.

“Physical and Psychological Effects of Alcohol and Other Drugs on Drivers,” ITE Journal, June, 1987, with Maurice E. Dennis, III, and F. Thomas Creasey.

“Harris County Gets SASS’y,” a report on the computerized Traffic Accident Storage and Retrieval System (SASS) for Harris County, Texas, TexITE Newsletter, with Paula Hogan, January, 1979.

LECTURES & PRESENTATIONS

“Applications of Standards, Guidelines and Policies from the Engineer’s Perspective,” presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C., January 23, 2012.

“The Challenges of Urban Intersection Design,” Web Seminar presented for the Institute of Transportation Engineers Educational Foundation (ITEEF), with Dr. Kay Fitzpatrick, May 12, 2009 and July 14, 2009.

“Grade Crossing Accidents from the Highway Perspective,” presented at the Rail Sciences, Inc. Seminar: Forensic, Evidentiary and Technical Aspects of Railroad Litigation, October 13-15, 2008, Atlanta, Georgia.

“Transportation Planning for Growth – What Should We Do?” Presented at the Planning for Brazos County Growth and Associated Vehicular Traffic – Successes and Failures of Other Texas Cities and University Communities Symposium and Forum Sponsored by the Business and Land Development Forum in Association with the Brazos Chapter of the Texas Society of Professional Engineers and Brazos Branch of the American Society of Civil Engineers, April 4, 2006, College Station, Texas.

“Access and TexDOT Policies,” presented at the Business and Land Development Forum Meeting, May 28, 2003, College Station, Texas.

“Grade Crossing Accidents from the Highway Perspective,” presented at the Rail Sciences, Inc. Seminar: Forensic, Evidentiary and Technical Aspects of Railroad Litigation, May 18-21, 2003, Atlanta, Georgia.

“Design Speed Versus Posted Operating Speed,” presented at the 1995 TexDOT Transportation Conference, Texas A&M University, October 16, 1995, College Station, Texas.

“Tort Liability Issues,” presented at the Oklahoma Vegetation Management Association’s 2nd Annual Conference, March 24, 1994, Oklahoma City, Oklahoma.

“Engineering Perspectives on Tort Liability,” with Grady Click, John M. Mounce, and Ned E. Walton. Presented at the 32nd Annual Workshop on Transportation Law, July 18-22, 1993, Santa Fe, New Mexico.

“Effects of Tort Liability on Roadway Design Decisions,” with Daniel S. Turner. Presented at the 71st Annual Meeting of the Transportation Research Board, Washington, D.C., January 15, 1992.

“The Evolution of Roadway Design and Its Relationship to Design Immunity,” with Neilon J. Rowan. Presented at the 71st Annual Meeting of the Transportation Research Board, Washington, D.C., January 13, 1992, and the First National Conference on Tort Liability and Risk Management for Surface Transportation, Penn State University, April 6, 1993.

“How to Make the Most with Demonstrative Evidence,” presented at the 30th Annual Workshop on Transportation Law, Snowbird, Utah, July 25, 1991.

“Engineering Design Training Programs – University Environment,” presented at the 1990 Annual Meeting of the Highway Engineering Exchange Program, San Antonio, Texas, August 2, 1990.

“Attorneys and Engineers in Tort Litigation – Cooperation or Conflict,” presented at the 73rd Annual Conference of the American Association of State Highway and Transportation Officials, San Diego, California, December 7, 1987.

“Finding and Evaluating Expert Witnesses,” presented at the 26th Annual Workshop on Transportation Law, Portland, Oregon, July 21, 1987.

“Impact of the Green Book on Highway Tort Liability,” presented at the January, 1986 Meeting of the Transportation Research Board, Washington, D.C., at the AASHTO Region II Subcommittee on Design Meeting, Lexington, Kentucky, June, 1986, and September 1986 at the Meeting of SAASSTO in Louisville, Kentucky.

“Simplified Procedures for Evaluating Low-Cost TSM Projects,” presented at the International Public Works Congress and Equipment Short Course, New Orleans, Louisiana, September 1986.

“Developing a Defense for a Roadway Tort Lawsuit with Secondary Information,” presented at the 25th Annual Transportation Research Board Workshop on Transportation Law, Williamsburg, Virginia, July, 1986, and January, 1989 at the Annual Meeting of the Transportation Research Board, Washington, D.C.

“Analysis of Reported Traffic Accidents Occurring on Richmond and Westheimer Avenues Between South Shepherd and Westernmost Houston City Limits – January 1, 1980 to April 30, 1981,” prepared for the Director, City of Houston Department of Traffic and Transportation, November, 1981.

“A Study of Pedestrian Accidents Occurring in the City of Houston, Texas between January 1, 1979 and September 1, 1980,” prepared for the Director, City of Houston Department of Traffic and Transportation, December, 1980.

“Roadway Optimization Study of the Existing Arterial Street System of Houston, Texas,” prepared for the Director, City of Houston Department of Traffic and Transportation, May, 1979.

“Truck Loading Zone Study in Central Business District, Houston, Texas,” prepared for the Director, City of Houston Department of Traffic and Transportation, May, 1979.

“A Report on the Top 35 High-Accident Locations in the City of Houston,” prepared for the Texas Office of Traffic Safety, November, 1977.