

# John M. Mason, Jr., PhD, PE

## Office of the Vice President for Research and Economic Development

Auburn University  
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## EDUCATION

1981 - PhD, Civil Engineering, Texas A&M University  
1977 - MS, Transportation Engineering, Villanova University  
1972 - BS, Transportation, The Pennsylvania State University  
1970 - Assoc. Engr., The Pennsylvania State University

## PROFESSIONAL ENGINEER

Pennsylvania No. 024623, (1976 - present)  
Texas No. 46359, (1979 - 1987)  
Florida No. 37440, (1986 - 1988)

## EMPLOYMENT HISTORY

### **September 2008 – present (Auburn University)**

**Vice President for Research & Economic Development**– 202 Samford Hall, Auburn University, Auburn, AL 36849-5112

Duties and responsibilities: As a member of the President's Cabinet, serves as the Chief Research Officer responsible for strategic university research and economic development initiatives, and related academic matters associated with externally sponsored scholarly activities across all academic programs, outreach projects, and research enterprise of Auburn University. Specific responsibilities include: providing leadership for research development, administration, technology transfer, and interdisciplinary programs. Daily duties also include regular interactions with a broad range of external public and private sector sponsors/partners. Oversee approximately a \$20 million operating budget, and annual average research expenditures of \$130 million.

**President, Auburn Research and Technology Research Foundation (ARTF)** – Auburn Research Park, 570 Devall Drive, Suite 102, Auburn, AL 36832

Duties and responsibilities: ARTF is a 501(c)3 corporation. Provide oversight for program development, management and operational activities. Serve as the university official that works with the Board of Directors and Executive Director to develop, build, market and operate the Auburn University Research Park. ARTF provides management services to various research faculty, private sector tenants and manages the Office of Technology Transfer on behalf of Auburn University. ARTF was established via a partnership of the University, State of Alabama and the City of Auburn.

**Associate Provost (9/08-12/13)** – 202 Samford Hall, Auburn University, Auburn, AL 36849-5112

Duties and responsibilities: As a member of the Provost's Council, serve as a continuous appointment to University Promotion and Tenure Committee, the University Academic Program Review Committee, the Executive Facilities Committee, Chair of the Competitive Grants Committee, and as a rotating appointed member to the University Senate.

**Professor of Civil Engineering (tenured)** – Samuel Ginn College of Engineering, Auburn University, Auburn, AL 36849

**August 1987 – August 2008 (The Pennsylvania State University)**

**Associate Dean** – College of Engineering, The Pennsylvania State University, 101 Hammond Building, University Park, PA 16802-1400 (Nov. 1, 1997- Aug. 31, 2008)

**Duties and responsibilities:** Provided college leadership for quality in engineering research, graduate instructional programs and outreach activities. Primary responsibilities included: providing administrative support to individual research investigators/centers and academic departments, promoting faculty/student interchange and interdisciplinary activities with various colleges across the entire university, encouraging and assisting in the development of strategic research centers associated with the college, intellectual property, research incentive funds and assessing and improving the quality of graduate programs. (USNEWS 2006-07 reported engineering expenditures of \$112million). Direct budgetary responsibility for the allocation of research development and financial support for: graduate fellowships, research-based investments, and various forms of cost-sharing commitments. Lead the strategic and programmatic development in quality, quantity, significance, visibility, and recognition of the graduate, research and continuing and distance educational programs in the College of Engineering at Penn State. Provided effective interaction with research sponsors in government organizations, both at the state and national levels, and in industry. Also served as the Principal Investigator of \$25 million Intergovernmental Agreement (2007-2012) and a \$5 million Partnership Agreement with state and federal Departments of Transportation (2005-2010). Additional leadership roles included serving as the Director of the Pennsylvania Transportation Institute and the Director of the Mid-Atlantic University Transportation Center.

**Director--Pennsylvania Transportation Institute (PTI)**, The Pennsylvania State University, 201 Transportation Research Building, University Park, PA 16802-4710 (July 1, 2005- August 31,2008)

**Duties and responsibilities:** Provided strategic direction and overall administrative activities of the Institute, reporting to the Dean of Engineering. Coordination of relations with all public and private research sponsors, cross-university academic unit heads and deans, governmental affairs, and development office/fund raising and various research centers internal and external to the university. Served as the Director of the Mid-Atlantic Universities Transportation Centers (MAUTC), a federally funded, nationally competed, regional transportation research and educational center. Research contract awards of PTI totaled approximately \$37.8 million (FY 2004-05). The Institute consisted of 40 supported faculty, 60 technical/clerical staff, 85 graduate students, and 15 undergraduates from six colleges of the University.

**Professor of Civil Engineering** – Department of Civil and Environmental Engineering, The Pennsylvania State University, 215 Sackett Building, University Park, PA 16802-1408 (Associate Professor 8/87 to 6/92; Coordinator-- Transportation Engineering Division 8/87 to 11/97; Professor 7/92 to August 31, 2008).

**Duties and responsibilities:** Undergraduate and graduate instruction in transportation engineering (highway design, road and street geometry, and intelligent transportation systems). Served on the CEE Department's Executive Committee to coordinate the academic affairs of the Division. Activities included course/section determination, graduate student assignments, preparation of the Division's ABET materials and other curriculum related matters.

**Associate Director--Pennsylvania Transportation Institute (PTI)**, The Pennsylvania State University, Research Office Building, University Park, PA 16802-4710 (July 1996-October 1997)

**Duties and responsibilities:** Coordination of relations with the Pennsylvania Department of Transportation. Coordination of activities related to Intelligent Transportation Systems. Represent PTI in contacts with the University Office of Governmental Affairs. Oversight of the activities of the Transportation Operations Program at PTI, including: the Mid-Atlantic Universities Transportation Centers (MAUTC), the Local Technical Assistance Program (LTAP), and acting as Director of the Institute in the

Director's absence.

Research contracts and related activities of PTI totaled approximately \$31.6 million (AY 1995-96). The Institute consisted of 40 supported faculty, 60 technical/clerical staff, 70 graduate students, and 40 undergraduates from five colleges of the University.

**Director--Center for Intelligent Transportation Systems (CITranS)**, via The Pennsylvania Transportation Institute, Research Office Building, University Park, PA 16802-4710 (1994-1997)

**Duties and responsibilities:** Direct, develop, and coordinate the Intelligent Transportation Systems (ITS) activities at Penn State.

**Institutional efforts:** CITranS-- a designated Center of Excellence within the College of Engineering. The Center promoted interdisciplinary transportation-related research among the various university colleges and research institutes, centers, and laboratories. CITranS coordinated proposal preparation and communications with public and private sponsors.

**Director--Transportation Operations Program**, The Pennsylvania Transportation Institute, The Pennsylvania State University, Research Office Building, University Park, PA 16802-4710 (1987-1996)

**Duties and responsibilities:** Served on the Institute's Executive Committee to direct, develop and implement the highway engineering, traffic engineering, roadway safety, transportation planning, and public transit related research activities of the Institute. Research contracts and related activities totaled approximately \$15 million (AY 1995-96). Program consists of approximately 75 individuals: 9 faculty/research associates, 18 full time research assistants/ engineers, 40 graduate/undergraduate students, and 8 support staff.

**Research projects:** Highway design/safety considerations, operational and geometric characteristics of trucks, safe driving/driver characteristics, traffic data collection techniques, traffic operations/management, IV/HS, public/private financing, DUI, and expert advisory systems.

**Director--Institute for Advanced Studies in Transportation Engineering and Management (TEaM)**, Mid-Atlantic Universities Transportation Center, via The Pennsylvania Transportation Institute, The Pennsylvania State University, Research Office Building, University Park, PA 16802-4710 (1989-1995)

**Duties and responsibilities:** Direct, develop, and implement the theme of the Institute for Advanced Studies.

**Institutional efforts:** The focus of the Institute's activities included the development of a curriculum and research program that emphasizes the engineering/management of--vehicles on the highway system, people (human resources/development), and infrastructure (rehabilitation). TEaM blended the expertise of transportation engineers/planners and business managers, such that graduates of the program would function effectively at the junctions of traffic, organizational, and infrastructure management.

**Private Consultant** (1980-present)

Provide consulting services for consulting engineering firms, legal firms, and State/Federal agencies in areas of professional interest and expertise.

**June 1986 - August 1987**

**District Transportation Manager**/West Florida Coast, Post, Buckley, Schuh, & Jernigan, Inc., 5300 West Cypress Street, Suite 300, Tampa, FL 33607

Direct, develop, and implement the transportation engineering activities of PBS&J's offices in Ft. Meyers, Sarasota, Bradenton, St. Petersburg, Clearwater, and Spring Hill from the Tampa hub office. Responsibilities included proposal development, client relationships, contract negotiations, budgeting, project direction/management, staff recruitment and retention, and quality control/assurance in all public/private transportation engineering related projects of the District. Annual billing budget for District's

transportation program = \$2.0 million. Direct supervision of approximately 30 personnel (professional, technical, and clerical).

### **September 1982 - June 1986**

**Program Manager--Implementation and Design Program**, Texas Transportation Institute (TTI), Texas A&M University, College Station, TX 77843-3135

**Management responsibilities:** Identify and pursue research opportunities, locate and recommend staff, monitor research activities to meet budget and project objectives, develop overall program funding, distribute salary/wage charges, provide an annual staff review, supervise preparation of proposals, develop writing and communication skills of the program staff, review and allocate work, coordinate equipment and staffing needs of the Program.

**Duties and responsibilities:** Provided specific direction to program in its conduct of transportation design-related research projects for federal, state, and local transportation agencies.

**Transportation projects:** Geometric design of highways and streets, exclusive truck facilities, highway safety, tort liability (risk management) for state and local agencies, trip generation projections, pavement management systems, traffic engineering, and transportation systems management.

**Public works projects:** Urban stormwater management, site development, and city government issues.

**Assistant Professor--Department of Civil Engineering**, Civil Systems Group, Texas A&M University (TAMU), College Station, TX 77843-3136

**Undergraduate instruction** in transportation engineering and planning, traffic engineering, highway design, and urban stormwater management.

**Graduate instruction** and **graduate committee membership**. Graduate courses included advanced concepts in street and highway design and transportation systems management (TSM) alternatives.

### **July 1979 - September 1982**

**Assistant Research Engineer**, Texas Transportation Institute and Lecturer, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3135

Conducted research, prepared proposals, and provided project supervision on state research activities. Acted as professional staff participant on several federal research studies. Responsible for final report preparation and presentation. Provided undergraduate instruction in surveying, transportation engineering, highway design, and traffic engineering.

### **September 1976 - July 1979**

**Assistant/Associate Professor**, Civil and Construction Technology, Lehigh County Community College, Schnecksville, PA 18078

Responsible for instruction and developing courses in plane and route surveying, cost estimating, construction materials, elementary structural steel and reinforced concrete design and detailing, and soils in construction. Duties also included budget preparations, equipment purchases, student advising, recruitment and retention.

**Civil Engineer**, G. Edwin Pidcock Co., Consulting Engineers and Surveyors, 2451 Parkwood Drive,

Allentown, PA 18103

Civil engineer responsible for design and supervision of plans, specifications, and cost estimates on various projects. These generally included subdivision plans, site development for residential, commercial and industrial complexes, highway design, drainage, urban stormwater management, traffic studies, erosion and sedimentation control, and preparation of legal case studies regarding stormwater runoff and roadway pavement failures.

### **October 1972 - September 1976**

**Civil Engineer**, Sanders and Thomas, S.T.V., Inc., Consulting Engineers, Pottstown, PA 19464

General project engineering tasks on major highway design projects for state and local clients. Areas included highway design, drainage, traffic engineering, report writing, plan preparation, specifications, cost estimates, right of way determinations, computer applications for geometry, highway safety improvements, site development, and intersection/interchange design and analyses. Duties also included coordination and directing individual projects.

### **July 1972 - October 1972**

**Engineer-in-Training**, Porter & Ripa Associates, Engineers & Architects, Morristown, NJ 07960

Assignments include basic engineering tasks such as highway geometry, quantity take-off, preliminary pavement design, traffic studies, TOPICS, ordinance review, and engineering cost estimates.

## **PROFESSIONAL INTERESTS**

Highway Design and Roadside Safety  
Intelligent Vehicle/Highway Systems  
Traffic/Transportation Engineering

## **SOCIETY MEMBERSHIP**

American Road & Transportation Builders Association  
American Society of Civil Engineers  
American Society for Engineering Education  
American Public Works Association (1983-93)  
Council of University Transportation Centers  
Institute of Transportation Engineers  
Intelligent Transportation Society of America  
National Society of Professional Engineers  
Transportation Research Board

## **HONOR SOCIETIES**

Phi Kappa Phi, National Honor Society, The Pennsylvania State University, Faculty Initiation, 2001.

Tau Beta Pi, National Engineering Honor Society, Texas A&M University, 1981.

Epsilon Delta Tau, Keystone Honor Society, Pennsylvania State University, Allentown, PA, 1969.

## AWARDS

Penn State Harrisburg Alumni Achievement Award, from the School of Science, Engineering and Technology, Penn State Harrisburg for leadership in the profession and significant contributions to the betterment of society. (October 2012).

2012 Outstanding Paper—Geometric Design Committee, Transportation Research Board, by Committee AFB10 for paper entitled: “Geometric Design, Speed, and Safety” Contributing Author R.J. Porter and E.T. Donnell. (January, 2012).

Wilbur S. Smith, Distinguished Transportation Educator Award, from committee of American Road and Transportation Builders Association, Eno Foundation, Federal Highway Administration, Highway Traffic Bureau, Highway Users Federation, Transportation Research Board of the National Academies, and the International Road Federation, via the Institute of Transportation Engineers for outstanding achievements in the education and mentoring of students in the field of transportation. (August 2010).

Best Paper Award, 3<sup>rd</sup> International Symposium on Highway Geometric Design, the Transportation Research Board, sponsored by the Geometric Design and the Operational Effects of Geometrics committees for paper entitled: “Median Design Considerations Based on Highway Geometric Design”, contributing author with E. T. Donnell (lead author) and Warren E. Hughes. (July 2005).

Theodore M. Matson Award, Institute of Transportation Engineers and American Society of State Highways and Transportation Officials, the Federal Highway Administration, Intelligent Transportation Society and the Transportation Research Board of the National Academies, for contributions through research, adaptation to practice and the advancement of the profession via training and administration. (January 2005).

Steinberg Award, American Road and Transportation Builders Association, for contributions in transportation education. (March 24, 1999).

Best of Session Award, Transportation Research Board, for presentation entitled “Sight Distance for STOP-Controlled Intersections Based on Gap Acceptance” with D. W. Harwood and R. E. Brydia, Sight Distance Symposium sponsored by the Committee on Geometric Design (August 14, 1997).

1992 Technical Council Award, Institute of Transportation Engineers, in recognition of service as member (Chair 1987-90) of Committee 5B-28, Operational Characteristics of Trucks, for the report, "Geometric Design and Operational Considerations for Trucks" (August 10, 1992).

Carl T. Humphrey Memorial Award, for professional achievement in engineering, College of Engineering, Villanova University. (June 8, 1990).

1990 Outstanding Paper on the Operational Effects of Geometrics, Transportation Research Board, by Committee A3A08 for paper entitled: “Field Observations of Truck Operational Characteristics Related to Intersection Sight Distance” with K. Fitzpatrick and D. W. Harwood. (January, 1990).

1989 Outstanding Paper of Merit, Transportation Research Board, by Committee A2A02 for paper entitled: “Intersection Sight Distance for Large Trucks” with K. Fitzpatrick and D. W. Harwood. (January 10, 1990).

Collingwood Prize, American Society of Civil Engineers, for paper entitled: “Effect of Oil Field Trucks on Light Pavements,” (October, 1984).

Best of Session Award, American Society of Civil Engineers, Texas Section, for paper entitled: “Demand Characteristics of Oil Field Traffic,” (September, 1982).

Best of Session Award, American Society of Civil Engineers, Texas Section, for paper entitled: “Modifying Highway Culverts to Provide Stormwater Detention,” (March 26, 1982).

## RECOGNITIONS

National Associate, National Research Council of the National Academies, November, 2011 (Honorary lifetime appointment).

Certificate of Appreciation, Transportation Research Board of the National Academies, 2009 Annual Meeting, Washington, DC (January 2009) (Honored Speaker).

Certificate of Recognition, The American Association for the Advancement of Science, AAAS Science & Technology Policy Leadership, Washington, DC (November 2008) (Selected Participant).

Member Emeritus, Committee on Geometric Design (A2A02); Transportation Research Board of the National Research Council, Washington, DC (January 2001).

Certificate of Recognition, Transportation Professional Certification Board, Inc., for active participation in the development of its first certification program and service as a member of the Board of Directors (January 2001).

Testimonial of Appreciation, Transportation Research Board, for distinguished service as Chair, Committee on Geometric Design of the Design and Construction of Transportation Facilities Group, 1991-1997 (January 1997).

Certificate of Appreciation, American Society of Civil Engineers, Highway Division, in recognition of distinguished service and leadership as Chair of the Executive Committee 1995-1996 (November 1996).

Certificate of Recognition, Institute of Transportation Engineers, in recognition of outstanding service on Technical Council as Vice Chair (1994) (October 1994).

Certificate of Appreciation, Institute of Transportation Engineers, District 5, for presentation at technical program, Raleigh, NC, April 25, 1994.

Certificate of Recognition, Institute of Transportation Engineers, in recognition of outstanding service on Technical Council as Department 2 Chairperson (1991-93) (September 1993).

Faculty-In-Residence Member, Eno Transportation Foundation, Inc., Washington, DC, May 8-12, 1993.

Certificate of Accomplishment, Institute of Transportation Engineers, in recognition of outstanding service as Chair (1987-90) of Committee 5B-28 "Operational Characteristics of Trucks" (March 1992).

Certificate of Appreciation, Institute of Transportation Engineers, in recognition of outstanding service on Committee 6A-33 "Guidelines for Transportation Impact Assessment of Proposed New Development," August 1990.

Certificate of Appreciation, American Public Works Associate, Texas Chapter, for services as Chairman of Research Committee, March, 1984.

Certificate of Recognition, Governor, State of Arkansas, on behalf of Joint Interim Committee on Public Transportation, for presentation to Senate and House on "Effects of Trucks on Highways--Related Research/Findings," February 14-15, 1984.

Certificate of Appreciation, "Efforts to Increase Society Membership," American Society for Engineering Education, 1981.

## **COMMITTEE MEMBERSHIPS**

### **Professional Societies/Activities**

#### **Association of Public and Land-Grant Universities:**

Council on Research Policy & Graduate Education (2008-present); Executive Committee (2014 class)

**American Public Works Association:**

Research Committee, Texas Chapter (Chair, 1983-85)

**American Road & Transportation Builders Association:**

Member, Design-Build Task Force (1996)  
Member, Research & Educational Division (1993-2008)  
Education Division, President-elect, (1996-97); Vice President (1996)  
Transportation Safety Advisory Council (1994-95)

**American Society of Civil Engineers:**

Accreditation Board for Engineering and Technology (ABET)/Technology Accreditation Commission (TAC);  
Reviewer (8-1-89 to present)  
Committee on the 2<sup>nd</sup> Edition of the Body of Knowledge (2005-2008)  
Committee on Education, Urban Transportation Division (1987-1990)  
Education Committee of the Highway Division (1991-97)  
Executive Committee (1993-97); Chair, Highway Division (1995-96); Vice Chair, Highway Division (1994-95);  
Secretary, Highway Division (10-1-92 to 9-30-93); Task Force on Advanced Highway Systems (Appointed  
8-30-92 to 12-31-94)  
Geometric Design and Operations Committee of the Highway Division (1985-present; Chair, 1988-92; Co-Chair,  
Truck Symposium, May 1988)  
Local Roads and Streets Committee of the Highway Division (1993-95)  
Publications Committee Highway Division (1991-94; 1994-96); Urban Transportation Division (1994-96)  
Committee on Facility Design and Operation, Urban Transportation Division (1989-1992)  
Steering Committee Low Volume Roads and Streets Workshop (1990-1992)  
Co-Chair, Steering Committee, Urban Facility Design and Operations (1990-91)  
Reviewer, *Journal of Transportation Engineering* (1988-2008)  
Reviewer, "Residential Streets Guide" (1987)  
Paper Reviewer for Truck Symposium (1988)  
PSU faculty contact for Central PA Section (1988)  
External Selection Committee Outstanding Civil Engineering Student in Alabama (1989)  
Transportation Institute Task Committee, Highway Division Representative (1997-1998)  
Transportation and Development Institute, Charter member (2003-present)

**American Society for Engineering Education:**

Board of Directors, (2009-10); Nominating Committee (2010-2012)  
Projects Board, (2010-2013)  
Executive Director Search Committee (2010-11)  
Engineering Research Council (1997-2012); Immediate Past Chair, Chair, ERC Nominating Committee (2010-2012);  
Chair (2008-10); Vice Chair (2006-08); Secretary/Treasurer (2005-06); Board of Directors (2002-2012); Awards  
Committee (2003-2012); Data Standardization Committee (2002-03; 2007-2012); ERC Workshop co-chair (2002;  
2003); ERC Summit co-chair (2007); Nominating Committee (2004; 2007; chair 2010-2012).  
SMART / Department of Defense Fellowship review panelist (Invited 2007)

**Council of University Transportation Centers:**

Award Selection Committee (1994-95; 1995-96; 1996-97; 1997-98)  
Constitution & Bylaws Committee, Chair (1995-96)  
Executive Committee: Board Member (1994-95); Secretary (1995-96); Vice President (1996-97); President (1997-98)  
Member (1994-2008)  
Regional University Transportation Centers--Distance Learning Graduate Transportation Certificate Program, Chair of  
the Curriculum Committee (2006-2007)

### **Economic Development Partnership of Alabama Foundation**

Ex-Officio Member, Board of Directors, Auburn University (2011-present)

### **ENO Transportation Foundation, Inc.**

Academic Selection Committee, Member (1997)

### **Federal Highway Administration**

Transportation Engineering Approaches to Climate Resilience: “Climate Change and Engineering Gap Assessment”, Washington, DC (Invited participant) (June 17, 2014)

External Sr. Expert Advisor, Federal Technical Advisory Group, “Methods to Achieve Speeds” (Invited, 2011-2012)

Independent Review Panel for Assessing the Impacts of Climate Variability on Transportation Infrastructure (Invited) (2010)

Biennial Awards Judge, “Excellence in Highway Design”. (Invited) (2006)

National Highway Institute, Advisory Task Force-Core Group, Distance Learning Pilot Certificate Program for Transportation Education, Member (2004-2005)

### **Institute of Transportation Engineers:**

Advisory Committee on Intelligent Vehicle/Highway Systems (Chair—Subcommittee on Institutional Requirements & Policies, 1991-93); Appointed Member, 1990-1991)

Career Guidance Committee (Appointed Member, 1991-1994)

Committee 5B-24, Truck Terminal Design for Double-Bottom Trucks (Chair, 1984-86)

Committee 5B-28, Operational Characteristics of Trucks (Chair, 1987-1990; Member, 1990-92)

Committee 5C8, Guidelines for Rail/Highway Crossing Closure (1980)

Committee 6A-33, Impact Analysis of Proposed Development (1982-84) (Published Summary Report--“Guidelines for Transportation Impact Assessment of Proposed New Development,” ITE Journal (June 1988)

Committee 6A-46, Truck Trip Generation (1986-1988)

Committee 6Y-44, Joint Public/Private Funding of Transportation Improvements (1988-1992)

Department 2, Education, Administration, Professional Standards (Assistant Chair, 1988-1990; Chair, 1991-1994)

Editorial Board – ITE Learned Journal (2009-present)

E-learning Program Content Advisory Committee (2001- 2003)

Fellow Member (June 1991)

Geometric Design Handbook/Task Force (Co-Chair 1999-2001)

Inter-Organization Committee, Texas Section (Chair, 1985-86)

Legislative & Policy Committee (1995-present); Policy Review Subcommittee (1996-97); Sub-Allocation Position Statement Subcommittee (1996-97)

Resolutions Committee (1985)

Sr. Editor – Geometric Design Handbook Series (2003-present).

Standards Approval Board (Appointed, 1991-1994)

Student Chapters Committee (1985; 1987-1990)

Task Force on Transportation Education (Co-Chair, 1987)

Technical Activities Division-Transition Steering Committee (1994-95)

Technical Council, Vice-Chair (1993-94)

Technical Program Committee, Geometric Design representative (2002-03)

Tex ITE Newsletter, Texas Section (Editor, 1982-84)

Traffic Academy Steering and Advisory Committee (1992-93)

Traffic Engineering Certification Advisory Committee (Appointed 1994-96; Working Group, 1995; 1997; 1998; Member, Board of Directors (Appointed January 1998)

Transportation Educators Council, District 2 Director - Executive Board (August 1991); (elected Director 1992-94)

Transportation Education Council Executive Committee (1995-96)

Transportation Security & Evacuation Advisory Committee (2007-08)

International Travel Delegate-China (2010)

Urban Traffic Engineering Project Committee - Education & Training Panel (1992-93, 1994-95)

### **International Road Federation:**

Faculty Representative for Penn State University (2002-2006)

### **ITS America:**

Coordinating Council, Member (1997-2000)

Education and Training Subcommittee, Chair (1993-1996)

Education and Training Committee, Chair (1997-2000)

Steering Committee for the ITS Professional Capacity Building Program, Member (1996-1999)

Steering Committee for Annual Meeting 2004; Program subcommittee, San Antonio, TX (2003-04)

University R&D Issues Subcommittee, Member (1992-1993)

### **ITS Pennsylvania**

Member, Board of Directors (1996-97)

### **National Automated Highway Research Consortium**

Associate Representative, Program Management Oversight Committee (May 1995-97; appointed by the Highway Design Industry Stakeholders Group)

### **National Science Foundation**

Panel Reviewer – proposals and fellowship applications (continuing)

### **Oak Ridge Associated Universities**

Board of Directors (2012 – present); Member, Finance and Audit Committee; Delegate, voting/ex-officio, Auburn University (2008-present)

### **Southeastern Universities Research Association**

Trustee, member/ex-officio, Auburn University (2008-present)

### **Transit Safety Research Alliance**

Board of Directors, Member (1996-1998)

### **Transportation Professional Certification Board, Inc.**

Board of Directors (1998 - 2000)

### **Transportation Research Board:**

Committee ANB25, Highway Safety Performance (2011-2014; 2014-2017); Strategic Planning (2011-12)

Committee AFB10 (A2A02), Geometric Design (Chair, 1991-94, 1994-97; Member, 1982-90, 1997-01); Emeritus

Member 2001- Present); Steering Committee for the Workshop to Review Research Methods Used to Study the Effects of Raising and Lowering Speed Limits (Chair, April 1993 to November 1993); Subcommittee for Planning (Chair, 1985); Subcommittee for Survey of AASHTO Greenbook (Chair, 1987-89).

Committee ALO70, Tort Liability and Risk Management (2003-2014; 2014-2017)

Committee B0070, Future Surface Transportation Agency Human Resource Needs: Strategies for Recruiting,

Training and Retaining Personnel (2001-03)—TRB Special Report 275: The Workforce Challenge (2003)

Committee B0044, Guidance on Setting and Enforcing Speed Limits (1997-99)

National Research Council, TRB Congressionally Mandated Report, External Reviewer (Invited), Implementing the Results of the Second Strategic Highway Research Program: Saving Lives, Reducing Congestion, Improving

Quality of Life (2008)  
 NCHRP Project Panel SP20-05, Synthesis of Information Related to Highway Problems (2003-present)  
 NCHRP Project Panel (Topic 36-07), Training Program Needs, Policies, and Practices (2004)  
 NCHRP Project Panel (Topic 33-08), Recruiting and Retaining Professional Staff in State Transportation Agencies (2003)  
 NCHRP Project Panel (Topic 35-04), Value Engineering Practices in Transportation (2003-04)  
 NCHRP Project Panel (Topic 40-07), Trade-off Considerations in Highway Geometric Design (2008-2011)  
 NCHRP Project 20-05 (Topic 41-01), Geometric Design Practices for Resurfacing, Restoration, and Rehabilitation (2009-10)  
 NCHRP Project 20-05 (Topic 42-04), Geometric Design Research and Practice for Improved Safety, Operations and Maintenance (2010-11)  
 NCHRP Project 20-05 (Topic 43-05), Practical Design/Solutions Practices (2011-12)  
 NCHRP Project 20-05 (Topic 44-05), Safety Crash Data Management among State and Local Agencies (2012-13)  
 NCHRP Project 20-05 (Topic 45-09), ID/IQ Contracting Effective Practices (2013-14)  
 NCHRP Project 15-50, Update to TRB Special Report 214: Designing Safer Roads – Practices for Resurfacing, Restoration and Rehabilitation, National Cooperative Research Program (2012-present)  
 Paper Reviewer (September 1981-82, and 1985-present)  
 Planning Committee for the 2<sup>nd</sup> EU-US Symposium on Transportation Research “Transport Research Implementation: The Application of Research Outcomes”, by invitation of the European Commission-Directorate –General, US Department of Transportation and the TRB of the National Academies. (2013-2016)  
 Planning Committee for TRB/USDOT/RITA Conference: Impact of Changing Demographics on the Transportation System (2008)  
 Strategic Highway Research Program (SHRP 2) Reliability Expert Task Group (ETG) on Evaluation of Cost-Effectiveness of Highway Design Features to Reduce Non-Recurring Congestion (Chair 2007)  
 Subcommittee AN000-1, Roadway Safety Cultures (2012-present)  
 Task Force for Development of a Highway Safety Manual ANB25T, formerly the Joint Committee for Development of a Highway Safety Manual, Chair, Policy Task Group (2000-05)  
 Task Force on Automated Highway Systems, A3A53 (1997-99)  
 University Representative, Texas A&M University (1985-86)

## **UNIVERSITY COMMITTEES/ACTIVITIES**

### **Auburn University:**

Academic Program Review Committee (2008-present)  
 Alabama EPSCoR Steering Committee (2008-present); Chair (2010-2012)  
 Auburn Research and Technology Foundation-501(c)3, (President and Member, Board of Directors) (2008-present)  
 Budget Advisory Committee (2008-2010)  
 Competitive Grants Committee, Chair (2008-present)  
 Executive Facilities Committee (2009-present)  
 President’s Cabinet (2008-present)  
 University Promotion and Tenure – Presidential Appointee (2008-present)  
 University Senate – Presidential Appointee (2008-2010)

### **Penn State University:**

#### **Department**

Capstone Design Course Development Committee (1987-89; 1989-1992, Chair)  
 Computer Advisory Committee (1987-89)  
 Coordinator, Transportation Engineering Division (1989-97)  
 Faculty Senate (2002-2006)  
 Graduate Curriculum Committee (1987-89)  
 Honors and Awards Committee (1994-95; 1995-96)  
 ITE Student Chapter Advisor (1989-90)  
 Promotion and Tenure Committee (Appointed 1991-92; 1992-94; Elected Member, 1995-97; Chair, 1995-96)

Space Committee (1990-91)  
Undergraduate Curriculum Committee (1989-1993, Chair; 1988-90)  
Undergraduate Curriculum Task Force (1991-1993)

Graduate Students: 12-Thesis Advisor; 20-Committee Member (total 32)

### College

Advisory Committee for the Bernard and Henrietta Hankin Chair, College of Engineering, (Member 2006)  
Administrative Review Committee of the Office of the Associate Dean for Graduate Studies and Research, College of Engineering (Chair, 1995-96)  
Engineering Faculty Council (Chair, 1993-94; Representative, 1990-93); Subcommittee on Graduate Studies and Research (Chair, 1991-92; Member, 1990-91); Planning Committee (1992-93)  
Review Committee for Endowed Professorships and Chairs, College of Engineering, (Member, 1999-00)

### University

Federal Demonstration Partnership (FDP), Government-University-Industry Research Roundtable (GUIRR), The National Academies, Penn State Faculty Representative (2007-2008)  
Council on Engagement, Vice President for Outreach, Faculty Forums Chair (2007-2008)  
Search Committee for Vice President for Information Technology, Member (2006)  
Homeland Security Council, Executive Committee and Strategic Planning Council, Office of the Vice-President for Research (2004)  
International Traffic in Arms Regulation (ITAR) Task Group for Processing ITAR related research, Office of the Vice President for Research (2004)  
Intercollege Materials Graduate Degree – Executive Committee member (2006-2008)  
Committee to Review the Integrated Biosciences (IBIOS) Graduate Program, Dean of the Graduate School (2004).  
Center for Science and the Schools (CSATS), Review Committee (2007-08)  
Center for Space Research Programs, Member of Oversight Committee, Office of the Vice-President for Research (2004 -2005)  
University Outreach Council, Revenue Sharing Working Group, Office of the Vice-President for Outreach (December 2003)  
University Outreach Council, Co-chair (2004-05)  
University Council on Engagement, Office of the Vice-President for Outreach (September 2006)  
Committee to Review Bioengineering at Penn State University, appointed by Office of the Vice President for Research, Co-chair (2001- 2002)  
Research Incentive Fund Task Force, Office of the Vice-President for Research, Member (2001).  
Patent Review Committee, Intellectual Property Office, Office of the Vice-President for Research, Member (2001-2008)  
GIS Council, Office of the Vice-President for Research, Member (March 2001-December 2001)  
Workshop Planning Committee for Personal Marketing: Preparing for Non-Academic Careers, The Graduate School, Member (Fall Semester, 1999)  
Steering Committee for the Food Industry Initiative in Pennsylvania (November 1999-December 2001)  
University Research Council, Member (November 1998-2008; Chair 2002-03):  
    Subcommittee on Institutional Submission Process (April 2002);  
    Subcommittee on Research Equipment (March 2002);  
    Subcommittee on Limited Submissions (September 2006).  
School of Information Science and Technology, Industry Support Group, Office of the Executive Vice President and Provost of the University, Member, (September 1998-99)  
Policies and Procedures for Intercollege Research Programs Committee, Graduate School. (1998-99).  
Search Committee for the Associate Dean for Student Affairs, Graduate School, Member, (October 1998-99)  
Advisory Board, The Pennsylvania Transportation Institute, Faculty Senate appointment, Member (June 1998-01); Chair (June 2001-2005)  
Task Force on the Utilization of Research Space, Office of the Vice President for Research, Member (1998-99)  
Task Group for Industry Expedited Research Contract Reviews, Office of the Vice President for Research (2004-05)  
Advisory Committee on Graduate Education (formerly the Implementation Committee), The Graduate School, The Pennsylvania State University, Member (1997-2008); Co-Chair (AY 2007-08)

Advisory Board, Environmental Resources Research Institute, The Pennsylvania University, Member  
(Jan. 1, 1998 to June 30, 2000)  
Faculty Supervisor to the Visiting Scholar Program in Transportation, for the United Nations Development Program  
(August 1988 - December 1988)  
Promotion and Tenure Committee, Department of Business Logistics (1992-93)  
Executive Committee -- Pennsylvania Transportation Institute, The Pennsylvania State University (1990-97)

**Texas A&M University:**

Member, Steering Committee on Promotion and Tenure, Civil Engineering Department, 1985  
Co-Advisor, Institute of Transportation Engineers-Student Chapter, 1984 - 1985  
Chairman, Urban and Regional Transportation and Joint Development Task Force, Center for Urban Affairs,  
1984 - 1986  
Secretary, Urban Affairs Committee, 1983 - 1984

Graduate Students: 6 – Thesis Advisor; 7-Committee Member (total 13)

**PUBLIC/UNIVERSITY SERVICE**

External Advisory Council, Department of Civil and Environmental Engineering, Vanderbilt University (Invited:  
2014-present)

TEAM Pennsylvania Penn State Ambassador; appointed (1999-2002)

Long Term Pavement Performance, FHWA Retreat, Penn State Scanticon Conference Center, University Park, PA,  
March 1-2, 1995. (Invited Facilitator)

LTAP--The Pennsylvania Local Roads Program, Strategic Planning Meeting, Penn State Scanticon Conference  
Center, University Park, PA, December 14-15, 1994. (Facilitator)

Penn State Transportation Academy, University Park, PA, August 7-13, 1994. (Invited Participant)

Traffic Operations Manpower Study, National Highway Institute (NHI), Albuquerque, NM, August 5-7, 1994.  
(Invited Participant)

Identification and Assessment of New and Innovative Highway Technologies, Federal Highway Administration,  
Arlington, VA (August 10-11, 1993). (Invited Participant)

Annual Highway and Transportation Short Course, (TTI & SDHPT) Program Committee, Session Coordinator  
Highway Maintenance, 1983, 84, 85.

Network of College Professors Teaching at Texas A&M University, Center for Teaching Excellence, May, 1983.  
(Invited Participant)

Alumni Career Counselor, Pennsylvania State University, Capitol Campus, Middletown, Pennsylvania,  
(1982 - 1984)

Board of Directors, Alumni Society, Penn State Harrisburg; Chairman, By-Laws Committee, (1988 - 1990)

Steering Committee, Thomas D. Larson Endowment Fund, Larson Transportation Institute, Penn State University,  
(2008-present)

**PRIVATE SECTOR**

Board of Directors, Member, Kittelson & Associates, Inc. (2012-2015)

Board of Directors, Member, Dowling & Associates (2012-2015)

**PUBLICATIONS**

## Articles Published in Refereed Journals

### Refereed Journal Articles:

Porter, R. J., Donnell E.T., Mason, J.M. "Geometric Design, Speed and Safety." *Transportation Research Record* 2309, (2012), pp.39-47. (Contributing Author)

Lynch, D.R., Russell, J.S., Mason, J.M., and Evans, J.C. "Claims on the Foundation: Professionalism and its Liberal Base." *Journal of Professional Issues in Engineering Education and Practice*, Vol. 135, No. 3, pp. 109-116, American Society of Civil Engineers (July 2009). (Contributing Author)

Porter, R.J., and Mason, J.M. "Modeling Speed Behavior of Passenger Cars and Trucks in Freeway Construction Work Zones: Implications on Work Design and Traffic Control Decision Processes." *Journal of Transportation Engineering* Vol. 134, No. 11, pp.450-458. (November 2008) (Contributing Author)

Porter, R.J., Mahoney, K.M. and Mason, J.M. "Seemingly Unrelated Regression Model of Car Speeds and Speed Deviations in Freeway Work Zones." *Transportation Research Record* 2023, (2007), pp. 44-51. (Contributing Author).

Donnell, E.T. and J. M. Mason. "Methodology to Develop Median Barrier Warrant Criteria." *Journal of Transportation Engineering*, 132(4):269-281 (April 2006). (Co-Principal Author).

Donnell, E.T. and J. M. Mason, "Predicting the Frequency of Median Barrier Crashes on Pennsylvania Interstates." *Accident Analysis and Prevention*, Pergamon Press (May 2006). (Contributing Author).

Mason, J.M. "Theodore M. Matson Memorial Award: Continued Professional Development of the Transportation Workforce." *ITE Journal* 75(10):24-27 (October 2005).

Donnell, E.T. and J. M. Mason, "Predicting the Severity of Median-Related Crashes in Pennsylvania Using Logistic Regression." *Transportation Research Record* 1897: 55-63 (2004). (Contributing Author).

Mason, J.M. "Transportation Education and Workforce Development." *ITE Journal* 73(9):22-26 (September 2003).

Donnell, E.T., D. W. Harwood, K. M. Bauer, J. M. Mason, M. T. Pietrucha. "Cross-Median Collisions on Pennsylvania Interstates and Expressways." *Transportation Research Record* 1784: 91-99 (2002). (Contributing Author)

Poe C. and J. M. Mason, "Analyzing Influence of Geometric Design on Operating Speeds Along Low Speed Urban Streets: Mixed Model Approach," *Transportation Research Record* 1737: 18-25 (2001). (Co-Principal Author)

Harwood, D. W., J. M. Mason, R. E. Brydia. "Sight Distance for Stop-Controlled Intersections Based on Gap Acceptance." *Transportation Research Record* 1701: 32-41 (2000). (Co-Principal Author)

Tarris, J. P., J. M. Mason, N. D. Antonucci. "Geometric Design of Low-Speed Urban Streets." *Transportation Research Record* 1701: 95-103 (2000). (Co-Principal Author)

Donnell E., M. L. Patten, J. M. Mason, "Evaluating a Roadside Assistance Program: The Penn-Lincoln Parkway Service Patrol," *Transportation Research Record* 1683:143-149 (1999). (Contributing Author)

Carlson, P. J. and J. M. Mason, "Relationships Between Ball Bank Indicator Readings, Lateral Acceleration Rates, and Vehicular Body-Roll Rates," *Transportation Research Record* 1658:34-44 (1999). (Co-Principal Author)

Bronzini, M. S., J. M. Mason, T. Maze. "ITS Education and Training: A Strategic Plan." *ITS Quarterly*, 1996 Fall/Winter Issue, pp. 43-50. (Co-Principal Author)

Tarris, J. P., C. M. Poe, J. M. Mason, K. G. Goulias. "Predicting Operating Speeds on Low-Speed Urban Streets: Regression and Panel Analysis Approaches." *Transportation Research Record* 1523:46-54 (1996).

(Contributing Author)

Bronzini, M. S., J. M. Mason, J. P. Tarris, E. Zaki. "Choosing a Civil Engineering Career: Some Market Research Findings." *Journal of Professional Issues in Engineering Education and Practice* 121(3):170-176 (July 1995). (Co-Principal Author)

Harwood, D. W., J. M. Mason. "Horizontal Curve Design for Passenger Cars and Trucks." *Transportation Research Record* 1445:22-33 (1994). (Co-Principal Author)

Mason, J. M., J. P. Tarris, E. Zaki, M. S. Bronzini. "Enhancing the Future Pool of Civil Engineers." *Transportation Research Record* 1395:191-199 (1993). (Co-Principal Author)

Plummer, C. W., Jr., M. T. Pietrucha, J. M. Mason. "Design of Interchange At-Grade Ramp Terminals." *Transportation Research Record* 1385:155-161 (1993). (Co-Principal Author)

Harwood, D. W., J. M. Mason. "Ramp/Mainline Speed Relationships, and Design Considerations." *Transportation Research Record* 1385:121-125 (1993). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick, D. W. Harwood, J. True. "Intersection Design Considerations to Accommodate Large Trucks." *Transportation Research Record* 1385:32-40 (1993). (Co-Principal Author)

Fitzpatrick, K., J. M. Mason, D. W. Harwood. "Comparison of Sight Distance Procedures for Turning Vehicles from a Stop-Controlled Approach." *Transportation Research Record* 1385:1-11 (1993). (Co-Principal Author)

Kilareski, W. P., J. M. Mason, J. P. Tarris. "Horizontal Curve Design--Centrifugal Force, Side Friction, and Other Myths." *Journal of the National Academy of Forensic Engineers*, Vol. X, No. 2, pp. 67-74 (December 1993). (Co-Principal Author)

Goulias, K. G., J. M. Mason. "Planning the Resolution of IVHS Issues via a Staged Development Approach." *Institute of Transportation Engineers Journal* 63(2):33-40 (February 1993). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick, D. L. Seneca, T. B. Davinroy. "Identification of Inappropriate Driving Behaviors." *Journal of Transportation Engineering* 118(2):281-298 (March/April 1992). (Co-Principal Author)

Fitzpatrick, K., J. M. Mason. "Review of AASHTO Case III Procedures for Intersection Sight Distance." *Transportation Research Record* 1280:216-226 (1990). (Co-Principal Author)

Fitzpatrick, K., J. M. Mason. "Review of AASHTO Green Book Procedures for Sight Distance at Ramp Terminals." *Transportation Research Record* 1280:190-198 (1990). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick, D. W. Harwood. "Field Observations of Truck Operational Characteristics Related to Intersection Sight Distance." *Transportation Research Record* 1280:163-172 (1990). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick. "Traffic Data Collection for Local Agencies." *Institute of Transportation Engineers Journal* 60(4):28-31 (April 1990). (Co-Principal Author)

Fitzpatrick, K., J. M. Mason, J. C. Glennon. "Sight Distance Requirements at Railroad-Highway Grade Crossings." *Transportation Research Record* 1208:70-79 (1989). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick, D. W. Harwood. "Intersection Sight Distance Requirements for Large Trucks." *Transportation Research Record* 1208:47-58 (1989). (Co-Principal Author)

Harwood, D. W., D. W. Glauz, J. M. Mason. "Stopping Sight Distance Design for Large Trucks." *Transportation Research Record* 1208:36-46 (1989). (Contributing Author)

Fambro, D. B., J. M. Mason, N. Cline. "Channelization Guidelines for Accommodating Longer and Wider Trucks." *Transportation Research Record* 1195: 48-63 (1988). (Co-Principal Author)

Middleton, D. R., J. M. Mason, H. C. Petersen. "Moving-Analysis Program to Evaluate Geometric and Operational Feasibilities of Exclusive Truck Facilities." *Transportation Research Record* 1122:132-141 (1987). (Co-Principal Author)

Middleton, D. R., J. M. Mason. "Operational and Geometric Evaluation of Exclusive Truck Facilities." *Transportation Research Record* 1122:116-131 (1987). (Co-Principal Author)

Blaschke, J. D., J. M. Mason. "Impact of the AASHTO Green Book on Highway Tort Liability." *Transportation Research Record* 1100:45-50 (1986). (Co-Principal Author)

Middleton, D. R., J. M. Mason, T. Chira-Chavala. "Trip Generation for Special-Use Truck." *Transportation Research Record* 1090:8-13 (1986). (Co-Principal Author)

Mason, J. M., V. S. Driscoll. "Consideration of Larger Trucks in Pavement Design and Management." *Transportation Research Record* 1052:120-128 (1986). (Co-Principal Author)

Mason, J. M., R. C. Briggs. "Geometric Design of Exclusive Truck Facilities." *Transportation Research Record* 1026:24-30 (1985). (Principal Author)

Mason, J. M., B. E. Stampley, T. Scullion. "Methodology of Assessing and Predicting Pavement Performance in Oil Field Areas." *Transportation Research Record* 966:39-47 (1984). (Co-Principal Author)

Mason, J. M., H. C. Petersen. "Survey of State's R-R-R Practices and Safety Considerations." *Transportation Research Record* 960:20-26 (1984). (Principal Author)

Mason, J. M., T. Scullion, B. E. Stampley. "Predicting Pavement Distress in Oil Field Areas." *Journal of Transportation Engineering* 110(3):366-381 American Society of Civil Engineers (May 1984). (Co-Principal Author)

Scullion, T., J. M. Mason, R. Lytton. "Predicting Reductions in Service Life of Surface Treated Pavements Under Oil Field Traffic." *Transportation Research Record* 938:20-28 (1983). (Co-Principal Author)

Mason, J. M. "Impact of Oil Field Truck Traffic." *Transportation Research Record* 920:33-38 (1983).

Mason, J. M., D. D. Van Fleet. "Measuring Social Impact: The Road Resurfacing Costs of Oil Exploration." *Texas Business Review* 57(6):300-303 (November-December 1983). (Principal Author)

Mason, J. M. "Effects of Oil Field Trucks on Light Pavements." *Journal of Transportation Engineering* 109(3):425-439 American Society of Civil Engineers (May 1983).

Mason, J. M. "Effects of Oil Field Development on Low Volume Roadways: An Overlooked Energy Related Cost." *Institute of Transportation Engineers Journal* 53(3):16-20 (March 1983).

#### **Papers / Writings Pending/Accepted for Publication:**

Mason, J., Sr. Editor – Rural Geometric Design Handbook for Institute of Transportation Engineers (in development).

#### **Refereed Proceedings:**

Donnell, E. T., J. M. Mason, and W. E. Hughes. Median Design Considerations Based on Crash and Cost Analyses. Third International Symposium on Highway Geometric Design, Transportation Research Board, Chicago, IL, 2005. (CD-ROM/Contributing Author)

Polus, A., C. M. Poe, J. M. Mason. Review of International Design Speed Practices in Roadway Geometric Design. International Symposium on Highway Geometric Design Practices, Transportation Research Board, Boston, MA (August 30-September 1, 1995; published proceedings in TR Circular E-C003, January 1998). (Contributing Author)

C. M. Poe, J. P. Tarris, J. M. Mason. Operating Speed Approach to Geometric Design of Low-Speed Urban Street Design. International Symposium on Highway Geometric Design Practices, Transportation Research Board, Boston, MA (August 30-September 1, 1995; published proceedings in TR Circular E-C003, January 1998). (Contributing Author)

Harwood, D. W., J. M. Mason, R. E. Brydia. Design Policies for Sight Distance at STOP-Controlled Intersections Based on Gap Acceptance. Proceedings, Third International Symposium on Intersection Without Traffic Signals, Portland, OR (July 1997). (Contributing Author)

Poe, C. M., J. M. Mason, T. Urbanik. Geometric Design Considerations for Automated Highway Systems. Proceedings, 1995 Transportation Congress, American Society of Civil Engineers, pp. 798-807 (October 1995). (Co-Principal Author)

Mason, J. M., K. Fitzpatrick, W. P. Kilareski. Local Road and Street Safety Improvement Program. *Transportation Research Record* 1291:156-162 (May 1991). (Principal Author)

Fambro, D. B., J. M. Mason, T. Neuman. Accommodating Larger Trucks at At-Grade Intersections, Accommodation of Trucks on the Highway: Safety In Design, *American Society of Civil Engineers*, pp. 104-122 (May 1988). (Co-Principal Author)

Middleton, D. R., J. M. Mason. The Use of Site-Specific Truck Traffic to Evaluate the Performance of Surface-Treated Pavements. *Transportation Research Record* 1106:123-132 (1987). (Co-Principal Author)

Mason, J. M., T. Scullion. Investigation of Effects of Oil Field Traffic on Low Volume Roads. *Transportation Research Record* 898:72-79 (July 1983). (Co-Principal Author)

## **Papers Refereed by Abstract**

### **Proceedings:**

Donnell, E. T., J. M. Mason, and S. C. Himes. "Transportation Sustainability in the United States." *Proceedings of the Fifth International Conference on Urban Regeneration and Sustainability*, Skiathos, Greece, (Forthcoming) September 2008).

Donnell, E. T., S. C. Himes, and J. M. Mason. "The Highway Safety Manual: Policy Issues." *Proceedings of the 2008 Technical Conference and Exhibit*, Institute of Transportation Engineers, Miami, FL (April, 2008). (Contributing Author).

Reed, T. J., T. M. Iwinski, D. L. Zimmerman, J. M. Mason. "Strategies for Engaging Engineering Faculty in Continuing Education." *International Association for Continuing Education Conference Proceedings*, 11<sup>th</sup> World Conference, Atlanta, GA (May 18-22, 2008). (Contributing Author).

Donnell, E. T., J. M. Mason, and W. E. Hughes. Median Design Considerations Based on Crash and Cost Analyses. *Third International Symposium on Geometric Design*, Chicago, IL, 2005, 24 pp. (CD). (Contributing Author)

Mahoney, K. M., J. M. Mason, E. T. Donnell. "Design Exceptions and Context Sensitive Design." *Institute of Transportation Engineers Compendium of Technical Papers* (CD), 73<sup>rd</sup> Annual Meeting, Seattle, WA (August 2003). (Contributing Author).

Donnell, E. T., K. M. Mahoney, J. M. Mason. "Relationship of Design Speed, Operating Speed, and Speed Limit." *Institute of Transportation Engineers Compendium of Technical Papers* (CD), 72<sup>nd</sup> Annual Meeting, Philadelphia, PA (August 2002). (Contributing Author).

Mahoney, K. M., E. T. Donnell, J. M. Mason. "Context Sensitive Design: A Challenge for Engineers." *Institute of Transportation Engineers Compendium of Technical Papers* (CD), 72<sup>nd</sup> Annual Meeting, Philadelphia, PA (August 2002). (Contributing Author).

Donnell, E. T., Kevin M. Mahoney, John M. Mason. Design Exception Considerations in Context Sensitive Design,

*Transportation Research Board Visualization in Transportation*, Symposium Proceedings (CD), Salt Lake City, Utah (April 2002). (Contributing Author)

Donnell, E.T., Michelle L. Adolini, Darren Torbic, John M. Mason, Lily Elefteriadou. Truck Safety Considerations in Geometric Design and Traffic Operations. *Institute of Transportation Engineers Compendium of Technical Papers* (CD), 71<sup>st</sup> Annual Meeting, Chicago, IL (August 2001). (Contributing Author)

Donnell, E., D. W. Harwood, K. Bauer, J. M. Mason. Analysis of Highway Median Safety in Pennsylvania. *Institute of Transportation Engineers Compendium of Technical Papers* (CD), Monterey, CA (March 2001). (Contributing Author)

Mason, J., J. Anderson. Certification Programs and Professional Development. *Compendium of Technical Papers*, 69<sup>th</sup> Annual Meeting, *Institute of Transportation Engineers* (CD), Las Vegas, NV (August 1999). (Co-Principal Author)

Patten, M. L., J. M. Mason, M. S. Bronzini. Education Needs for Intelligent Transportation System Implementation in the United States. *International Organization for Science and Technology Education (IOSTE) - 8th Symposium Proceedings*, Vol. 4, pp. 254-257, Edmonton, Alberta, Canada (1997). (Co-Principal Author)

Mason, J. M., D. W. Harwood, R. E. Brydia. Intersection Sight Distance. *Institute of Transportation Engineers Compendium of Technical Papers* (CD), Boston, MA (August 1997). (Co-Principal Author)

Mason, J. M., G. L. Gittings. Exploratory Study on Potential Uses of Highway Tort Claims Information for Safety and Design-Related Purposes. *Institute of Transportation Engineers Compendium of Technical Papers* (CD), Boston, MA (August 1997). (Co-Principal Author)

Elefteriadou, L., J. M. Mason, J. Hawkins. Interdisciplinary Master in Transportation Degree. *Institute of Transportation Engineers, Resource Papers for the 1997 International Conference*, pp. 255-259 (March 1997). (Co-Principal Author)

Smoker, M. D., J. P. Tarris, J. M. Mason. Relationship between Zonal Variables and Individual Vehicle Speeds on Low-Speed Urban Streets, *Institute of Transportation Engineers Compendium of Technical Papers*, Minneapolis, MN, pp. 341-345 (September 1996). (Contributing Author)

Antonucci, N. D., J. P. Tarris, J. M. Mason. Accuracy and Visibility of Speed Measurement Devices. *Institute of Transportation Engineers Compendium of Technical Papers*, Minneapolis, MN, pp. 336-340 (September 1996). (Contributing Author)

Micsky, R. J., J. M. Mason. Sight Distance for Vehicles Turning Left Off Major Roadways. *Proceedings, Second National Conference on Access Management, Transportation Research Board*, Vail, CO, pp. 353-382 (August 1996). (Contributing Author)

Poe, C. M., J. P. Tarris, J. M. Mason. Influence of Access and Land Use on Vehicle Operating Speeds Along Low-Speed Urban Streets. *Proceedings, Second National Conference on Access Management, Transportation Research Board*, Vail, CO, pp. 339-351 (August 1996). (Contributing Author)

Koser, S. L., M. L. Patten, J. M. Mason. Developing Pennsylvania's Statewide ITS Strategic Plan. *Proceedings, ITS America 6th Annual Meeting*, Houston, TX, Vol. 2, pp. 810-818 (April 1996). (Co-Principal Author)

Poe, C. M., J. M. Mason, M. T. Pietrucha. Traffic Engineering Education Plan Using Alternative Media. *Institute of Transportation Engineers, Resource Papers for the 1996 International Conference*, pp. 179-183 (March 1996). (Co-Principal Author)

Patten, M. L., J. M. Mason, D. J. Torbic. Key Opportunities and Issues in ITS Implementation at the State and Local Levels. *Institute of Transportation Engineers, Resource Papers for the 1996 International Conference*, pp. 7-1 (March 1996). (Co-Principal Author)

Mason, J. M., M. S. Bronzini. Career Awareness, Retention and Curriculum Programs. *Proceedings, Frontiers in*

Education Conference, pp. 3a3.10-3a3.13 (November 1995). (Co-Principal Author)

Poe, C. M., J. M. Mason, T. Urbanik II. Geometric Design Considerations for Automated Highway Systems. Proceedings, 1995 Transportation Congress, pp. 798-807. *American Society of Civil Engineers*, San Diego, CA (October 1995). (Co-Principal Author)

Poe, C. M., J. M. Mason. Geometric Design Guidelines to Achieve Desired Operating Speed on Urban Streets. Institute of Transportation Engineers Compendium of Technical Papers, pp. 70-74 (August 1995). (Co-Principal Author)

Khattak, A. J., K. G. Goulias, J. M. Mason. Selecting Strategies to Mitigate Intelligent Transportation Systems (ITS) Institutional Issues. Institute of Transportation Engineers, Resource Papers for the 1995 International Conference, pp. 87-91 (April 1995). (Co-Principal Author)

Brydia, R. E., J. M. Mason. A Systems Approach to Freeway Design. Institute of Transportation Engineers Compendium of Technical Papers, pp. 118-122 (October 1994). (Co-Principal Author)

Harwood, D. W., J. M. Mason. Conceptual Plan for an Interactive Highway Safety Design Model. Institute of Transportation Engineers, Proceedings of the 1994 International Conference, LaJolla, CA (March 1994).

Mason, J. M., L. M. Kostival. Transportation Engineering Careers: Awareness, Retention, and Curriculum. Institute of Transportation Engineers Compendium of Technical Papers, pp. 284-288 (September 1993). (Co-Principal Author)

Mason, J. M., J. P. Tarris, E. Zaki, M. S. Bronzini. Strategies for Enhancing the Civil Engineering Pool. Proceedings of the Engineering Pipeline National Conference, pp. 60-65 (September 24-26, 1992). (Co-Principal Author)

Fitzpatrick, K., R. E. Brydia, J. M. Mason. Identification of Inappropriate Bicycle Operating Behavior. Institute of Transportation Engineers Compendium of Technical Papers, pp. 111-115 (August 1992). (Contributing Author)

Kulakowski, B. T., C. E. Antle, D. J. Jacobs, C. Lin, J. M. Mason, J. C. Wambold. Development of a Wet Pavement Index to Assess the Risk of Skidding Accidents. Proceedings, Second International Symposium on Road Surface Characteristics, Berlin, Germany (June 1992). (Contributing Author)

Goulias, K. G., J. M. Mason. Institutional and Funding Issues Related to the Staged Development of IV/HS. Institute of Transportation Engineers--Issues Papers, pp. 191-195 (March 1992). (Co-Principal Author)

Mason, J. M., J. P. Tarris, E. Zaki, M. S. Bronzini. Increasing the Pool of Transportation Engineers. Institute of Transportation Engineers Compendium of Technical Papers, pp. 381-387 (September 1991). (Co-Principal Author)

Patten, M. L., J. M. Mason. Institutional Barriers to IVHS Introduction. Applications of Advanced Technologies in Transportation Engineering, Proceedings of the Second International Conference, *American Society of Civil Engineers*, pp. 223-227, Minneapolis, MN (August 18-21, 1991). (Co-Principal Author)

Mason, J. M., D. L. Seneca. Implementation of "HISAM/HISAFE" Microcomputer Programs. Proceedings, Third International Conference on Microcomputers in Transportation, pp. 491-503, *American Society of Civil Engineers* (June 1990). (Co-Principal Author)

Mason, J. M., W. P. Kilareski. Using Satellite Television for Continuing Education of Civil Engineers, pp. 239-245, *American Society of Civil Engineers*. National Forum on Education and Continuing Professional Development for the Civil Engineer: Setting the Agenda (April 1990). (Co-Principal Author)

Mason, J. M., E. Thomchick, M. L. Patten. Traffic Management Through Public/Private Partnership. Technical Papers from the 1989 Conference: Beyond Gridlock. *Institute of Transportation Engineers*, pp. 315-325 (February 1990). (Co-Principal Author)

Mason, J. M., M. L. Patten, K. Fitzpatrick. Private Funding of Transportation Facilities in the U.S. - Status Report. Technical Papers from the 1990 ITE International Conference: Meeting the Transportation Challenges of the

1990s. *Institute of Transportation Engineers*, pp. 111-120 (February 1990). (Co-Principal Author) (Invited Paper)

Mason, J. M., D. L. Seneca. Implementation of "HISAM/HISAFE" Microcomputer Programs. *Institute of Transportation Engineers Compendium of Technical Papers*, pp. 488-492 (REPRINT WITH ASCE permission) (September 1989). (Co-Principal Author)

Leisch, J. P., J. M. Mason. Design/Operational Innovations for the Future. Engineering 21st Century Highways, *American Society of Civil Engineers*, pp. 277-278 (April 1989). (Co-Principal Author)

Mason, J. M., Y. Su, W. P. Kilaeski. Development of a Knowledge-Based Expert System for Traffic Signal Warrants. Proceedings, International Conference on Applications of Advanced Technologies in Transportation Engineering, *American Society of Civil Engineers*, pp. 193-198, CA (February 1989). (Co-Principal Investigator)

Mason, J. M., K. Fitzpatrick. Intersection Sight Distance for Large Trucks. *Institute of Transportation Engineers Compendium of Technical Papers*, pp. 466-471 (September 1988). (Co-Principal Author)

Mason, J. M., D. L. Woods. Computer-Aided Procedures for Evaluating TSM Projects. Proceedings, *Institute of Transportation Engineers Compendium of Technical Papers*, pp. 74-76 (August 1987). (Co-Principal Author)

Mason, J. M., D. L. Woods. Procedures for Evaluating TSM Projects. Proceedings, North American Conference on Microcomputers in Transportation, *American Society of Civil Engineers*, pp. 563-570 (June 1987). (Co-Principal Author)

Mason, J. M., D. R. Middleton, H. C. Petersen. Operational and Geometric Evaluation of Exclusive Truck Facilities. *Institute of Transportation Engineers Compendium of Technical Papers*, pp. 237-244 (September 1986). (Co-Principal Author)

Woods, D. L., J. M. Mason. Self-Training Materials for Transportation Systems Management. Proceedings, 1986 American Society of Engineering Education Annual Conference, pp. 1223-1225 (June 1986). (Co-Principal Author)

Blaschke, J. D., J. M. Mason, B. E. Miller. Risk Management to Reduce Highway Tort Liability. Effectiveness of Highway Safety Improvements: *American Society of Civil Engineers*, pp. 117-126 (March 1986). (Co-Principal Author)

Mason, J. M., K. L. Schwartz, R. C. Briggs. Geometric Design Requirements for Unique Truck Roadway Facilities. *Institute of Transportation Engineers Compendium of Technical Papers*, pp. 240-245 (August 1985). (Principal Author)

Mason, J. M., H. C. Petersen. Teaching Pavement Management System Techniques Using Computer Simulation. Proceedings, 1985 American Society of Engineering Education Annual Conference, pp. 458-462 (June 1985). (Co-Principal Author)

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Mason, J. M. On-Site Detention: An Alternative for the Control of Urban Stormwater. Technical Transfer Report No. 5, for Urban Programs Group, Center for Strategic Technology. National Science Foundation Grant No. 1SP7911986, 26 pp. (August 1981).

Pinnell, C., J. M. Mason, W. Berg. Railroad-Highway Grade Crossings Synthesis of Safety Research Related to Traffic Control and Roadway Elements. Federal Highway Administration, Contract No. DOT-FH-11-9625, 56 pp. (May 1981). (Non-Principal Author)

Mason, J. M., D. Woods. General Roadway Design Synthesis of Safety Research Related to Traffic Control and Roadway Elements. Federal Highway Administration, Contract No. DOT-FH-11-9625, 77 pp. (May 1981). (Co-Principal Author)

Ross, H., J. M. Mason, J. Mounce. Roadside Design Synthesis of Safety Research Related to Traffic Control and Roadway Elements. Federal Highway Administration, Contract No. DOT-FH-11-9625, 74 pp. (May 1981). (Non-Principal Author)

Dudek, C., J. Mounce, J. M. Mason. Construction and Maintenance Work Zones Synthesis of Safety Research Related to Traffic Control and Roadway Elements. Federal Highway Administration, Contract No. DOT-FH-11-9625, 75 pp. (May 1981). (Non-Principal Author)

Mason, J. M., E. J. Rhomberg. Urban Stormwater Management, On-Site Detention. Texas Engineering Extension Service, Texas A&M University, 155 pp. (August 1980). (Co-Principal Author)

### **Articles Published in Nonrefereed Journals**

Middleton, D. R., Mason, J. M. Impact of Trucks on Texas Highways. The Texas Planner, American Planning Association/Texas Educational Foundation, pp. 15-17 (1985). (Co-Principal Author)

Bissell, H. H., G. B. Pilkington, J. M. Mason, D. L. Woods. Roadway Cross Section and Alignment. *Public Roads* 46(4):132-141, Journal of Highway Research and Development, Federal Highway Administration (March 1983). (Non-Principal Author)

### **Articles in In-house Organizations**

Mason, J. M. Session 12a: Consultant/Owner Issues Panel Discussion. "University Research Issues." 1996 Traffic Engineering and Safety Conference Proceedings, Penn State Scanticon Conference Center Hotel, State College, PA (December 9-11, 1996).

Gittings, G., J. Bagby, J. Mason, R. Brydia. Evolving Concepts of Discretionary Function Immunity: Implications for Highway Design Liability and Risk Management Strategy. Tort Liability/Risk Management Conference, University Park, PA, 19 pp. (April 4-7, 1993)

Mason, J. M. Stormwater Management Programs. Milepost '85 1(5), one-page article, Texas A&M University (1985).

Mason, J. M. Drainage Considerations. Milepost '85 1(4), one-page article, Texas A&M University (1985).

Mason, J. M. Investigation of the Effects of Oil Field Traffic on Low Volume Roadways. Texas A&M University Dissertation, 202 pp. (December 1981).

## **PRESENTATIONS**

### **Papers Presented at Technical and Professional Meetings**

Mason, J.M., “Institutional Incentives and Disincentives to Successful Implementation”, The 2<sup>nd</sup> EU-US Symposium on Transportation Research “Transport Research Implementation: The Application of Research Outcomes”, by invitation of the European Commission-Directorate –General, US Department of Transportation and the TRB of the National Academies, Parvis de la Defense, Paris, FR, April 10-11, 2014.

Mason, J.M., Technology Transfer & Economic Development: Challenges and Opportunities, Workshop for New Vice Presidents for Research, APLU, Council on Research Policy and Graduate Education, Washington, DC, June 25, 2012.

Porter, R. J., and J. M. Mason. Relationship Between Car and Truck Speeds, Geometrics, and Traffic Control in Freeway Construction Work Zones (Poster Session Paper 08-2438), Transportation Research Board, Washington, DC, January 2008. (Presented by R. J. Porter).

Mason, J.M., Intelligent Transport Systems Education and Workforce Development, ITS ARAB, Middle East Conference, Dubai, UAE, December 2006.

Mason, J.M., Design Exceptions and Context Sensitive Solutions. Transportation Research Board, Washington, DC, January 2006.

Donnell, E.T. and J. M. Mason. Predicting the Frequency of Median Barrier Crashes on Pennsylvania Interstates. Transportation Research Board. TRB Paper No. 04-2515, Transportation Research Board, Washington, DC, January 2004. (Presented by E. T. Donnell).

Donnell, E.T., Douglas W. Harwood, Karin M. Bauer, John M. Mason, Martin Pietrucha. Cross-Median Collisions on Pennsylvania Interstates and Expressways. TRR Paper No. 02-2806, Transportation Research Board, Washington, DC, January 2002. (Presented by Eric Donnell).

Donnell, E.T., Michelle L. Adolini, Darren Torbic, John M. Mason, Lily Elefteriadou. Truck Safety Considerations in Geometric Design and Traffic Operations. 71st Annual Meeting, Institute of Transportation Engineers, Chicago, IL, August 2001. (Presented by J. Mason).

Mason, J. M., J. Anderson, Certification Programs and Professional Development, 69<sup>th</sup> Annual Meeting, Institute of Transportation Engineers, Las Vegas, NV, August 1999.

Donnell E., M. L. Patten, J. M. Mason, Evaluating a Roadside Assistance Program: The Penn-Lincoln Parkway Service Patrol, Transportation Research Board, Washington, D.C., January 1999. (Presented by E. Donnell).

Carlson, P. J. and J. M. Mason, Relationships Between Ball Bank Indicator Readings, Lateral Acceleration Rates, and Vehicular Body-Roll Rates, Transportation Research Board, Washington, D.C., January 1999. (Presented by P. Carlson).

Patten, M. L., J. M. Mason. Evaluation Plan for the AASHTO Transportation and Civil (TRAC) Engineering Career

Centers Program. Committee A1A04: Transportation Education and Training. Transportation Research Board Annual Meeting, Washington, DC (January 1998). (Presented by M. L. Patten) (Contributing Author)

Patten, M. L., J. M. Mason. The Transportation and Civil Engineering (TRAC) Program: Assessing Its Success. 1997 Frontiers in Education Conference, Pittsburgh, PA (November 5-8, 1997). (Presented by M. L. Patten) (Contributing Author)

Gittings, G. L., J. M. Mason. Exploratory Study on Potential Uses of Highway Tort Claims Information for Safety and Design-Related Purposes. Institute of Transportation Engineers 67th Annual Meeting, Boston, MA (August 3-6, 1997). (Presented by J. M. Mason) (Co-Principal Author)

Elefteriadou, A., J. M. Mason, J. Hawkins. Interdisciplinary Master in Transportation Degree. Institute of Transportation Engineers International Conference, Tampa, FL (March 23-26, 1997). (Presented by J. M. Mason) (Contributing Author)

Orne, D., J. M. Mason, M. L. Patten. Developing Benefit/Cost Information for AHS. National Automated Highway System Consortium (NAHSC), Program Management Oversight Committee (PMOC), Strategic Issues Subcommittee, Washington, DC (January 17, 1997). (Co-Principal Author) (Presented by J. M. Mason)

Mason, J. M. Session 12a: Consultant/Owner Issues Panel Discussion. "University Research Issues." 1996 Traffic Engineering and Safety Conference, Penn State Scanticon Conference Center Hotel, State College, PA (December 9-11, 1996).

Antonucci, N. D., J. P. Tarris, J. M. Mason. Accuracy and Visibility of Speed Measurement Devices. Institute of Transportation Engineers 66th Annual Meeting, Minneapolis, MN (September 15-18, 1996). (Presented by N. D. Antonucci) (Contributing Author)

Smoker, M. D., J. P. Tarris, J. M. Mason. Relationship between Zonal Variables and Individual Vehicle Speeds on Low-Speed Urban Streets. Institute of Transportation Engineers 66th Annual Meeting, Minneapolis, MN (September 15-18, 1996). (Presented by M. D. Smoker) (Contributing Author)

Patten, M. L., J. M. Mason, M. S. Bronzini. Education Needs for Intelligent Transportation System Implementation in the United States. International Organization for Science and Technology Education (IOSTE) Symposium, Edmonton, Alberta, Canada (August 17-22 1996). (Presented by M. S. Bronzini) (Co-Principal Author)

Micsky, R. J., J. M. Mason. Sight Distance for Vehicles Turning Left Off Major Roadways. Second National Conference on Access Management, Transportation Research Board, Vail, CO (August 11-14, 1996). (Presented by R. J. Micsky) (Contributing Author)

Poe, C. M., J. P. Tarris, J. M. Mason. Influence of Access and Land Use on Vehicle Operating Speeds Along Low-Speed Urban Streets. Second National Conference on Access Management, Transportation Research Board, Vail, CO (August 11-14, 1996). (Presented by C. M. Poe) (Contributing Author)

Patten, M. L., J. M. Mason, S. L. Koser. Developing Pennsylvania's Statewide ITS Strategic Plan. ITS America 6th Annual Meeting, Houston, TX (April 15-18, 1996). (Presented by S. L. Koser) (Co-Principal Author)

Patten, M. L., J. M. Mason, D. J. Torbic. Key Opportunities and Issues in ITS Implementation at the State and Local Levels. Institute of Transportation Engineers International Conference, Dana Point, CA (March 3-6, 1996). (Presented by J. M. Mason)

Poe, C. M., J. M. Mason, M. T. Pietrucha. Traffic Engineering Education Plan Using Alternative Media. International Transportation Engineers International Conference, Dana Point, CA (March 3-6, 1996). (Presented by C. M. Poe) (Co-Principal Author)

Tarris, J. P., C. M. Poe, J. M. Mason, K. G. Goulias. Predicting Operating Speeds on Low-Speed Urban Streets: Regression and Panel Analysis Approaches. Transportation Research Board Annual Meeting, Washington, DC (January 1996). (Presented by C. M. Poe)

J. M. Mason, M. S. Bronzini. Career Awareness, Retention and Curriculum Programs. 1995 Frontiers in Education

Conference, Atlanta, GA (November 1-4, 1995). (Presented by J. M. Mason)

C. M. Poe, J. M. Mason, T. Urbanik II. Geometric Design Considerations for Automated Highway Systems. 1995 Transportation Congress, American Society of Civil Engineers, San Diego, CA (October 22-26, 1995). (Presented by J. M. Mason)

C. M. Poe, J. P. Tarris, J. M. Mason. Operating Speed Approach to Geometric Design of Low-Speed Urban Street Design. International Symposium on Highway Geometric Design Practices, Transportation Research Board, Boston, MA (August 30-September 1, 1995). (Presented by C. M. Poe) (Contributing Author)

C. M. Poe, J. M. Mason. Geometric Design Guidelines to Achieve Desired Operating Speed on Urban Streets. Institute of Transportation Engineers 65th Annual Meeting, Denver, CO (August 5-8, 1995). (Presented by C. M. Poe) (Co-Principal Author)

M. L. Patten, J. M. Mason. The ITS-NII Connection at the State and Local Level: A Make or Break Proposition. Workshop on the Intelligent Transportation Systems and the National Information Infrastructure (ITS/NII), John F. Kennedy School of Government, Harvard University, Cambridge, MA (July 1995). (Presented by M. L. Patten) (Contributing Author)

Brydia, R. E., J. M. Mason. A Systems Approach to Freeway Design. Institute of Transportation Engineers 64th Annual Meeting, Dallas, TX (October 16-19, 1994).

Mason, J. M. Conceptual Plan for an Interactive Highway Safety Design Model. Institute of Transportation Engineers, 1994 International Conference on "The Environment Changing our Transportation Priorities," LaJolla, CA (March 20-23, 1994).

Tarris, J. P., J. M. Mason, N. D. Antonucci. Geometric Design on Low Speed Urban Streets. Transportation Research Board Annual Meeting, Washington, DC (January 1994). (Contributing Author)

Mason, J. M., L. M. Kostival. Transportation Engineering Careers: Awareness, Retention, and Curriculum. Institute of Transportation Engineers 63rd Annual Meeting, The Hague, The Netherlands (September 19-22, 1993). (Invited speaker)

Mason, J. M. Advanced Technologies in Commercial Vehicle Operation AT24 Session, Pacific Rim Transportation Conference, Seattle, WA, and (July 27-28, 1993). (Session Moderator)

Patten, M. L., J. M. Mason, T. E. Bryer. Strategies to Improve Motor Carrier Safety. Transportation Research Board, Washington, DC (January 1993). (Contributing Author)

Mason, J. M. Enhancing the Future Pool of Civil Engineers. Transportation Research Board Committee A1A04 – Transportation Education and Training, Washington, DC (January 11, 1993).

Fitzpatrick, K., J. M. Mason. Identification of Inappropriate Bicycle Operating Behavior. Institute of Transportation Engineers Annual Meeting, Washington, DC (August 10, 1992). (Presented by K. Fitzpatrick)

Mason, J. M. Institutional and Funding Issues Related to the Staged Development of IV/HS. ITE International Conference on Transportation Engineering in a New Era, Monterey, CA (March 25, 1992).

Mason, J. M. Geometric Design. Low Volume Roads and Streets Conference. American Society of Civil Engineers, Arlington, TX (March 1, 1992). (Invited Speaker)

Mason, J. M. Geometric Design Session. Transportation Research Board Annual Meeting, Washington, DC (January 13, 1992). Presiding Session Moderator.

Mason, J. M. Increasing the Pool of Transportation Engineers, Institute of Transportation Engineers Annual Meeting, Milwaukee, WI (September 21-25, 1991).

Mason, J. M. Institutional Barriers to IVHS Introduction. Second International Conference on Applications of

Advanced Technologies in Transportation Engineering, American Society of Civil Engineers, Minneapolis, MN (August 20, 1991).

Mason, J. M. Local Road and Street Safety Improvement Program. Fifth International Conference on Low-Volume Roads, Transportation Research Board, Raleigh, NC (May 1991).

Bronzini, M. S., J. M. Mason, J. P. Tarris. Expanding the Civil Engineering Pool. Transportation Research Board Annual Meeting, Washington, DC (January 1991). (Contributing Author)

Mason, J. M. Intersection Design Considerations to Accommodate Large Trucks. Transportation Research Board Annual Meeting, Washington, DC (January 1991).

Mason, J. M. Safe Driving Characteristics. Institute of Transportation Engineers, District 2 Annual Meeting, Gettysburg, PA (November 2, 1990). (Invited)

Mason, J. M. Private Funding of Transportation Facilities in the U.S.--Status Report. ITE International Conference on Meeting the Transportation Challenges of the 1990s: Land Development, Traffic Congestion, and Traffic Safety, Garden Grove, CA (March 1990).

Mason, J. M. Review of AASHTO Green Book Sight Distance at Ramp Terminals Procedures. Transportation Research Board Annual Meeting, Washington, DC (January 1990).

Mason, J. M. Field Observations of Truck Operational Characteristics Related to Intersection Sight Distance. Transportation Research Board Annual Meeting, Washington, DC (January, 1990).

Mason, J. M. Implementation of "HISAM/HISAFE" Microcomputer Programs. International Conference on Microcomputers, American Society of Civil Engineers, San Francisco, CA (June 21-23, 1989).

Mason, J. M. The Future Application of Expert Systems for Highway Design Development and Analysis. Engineering 21st Century Highways, American Society of Civil Engineers, San Francisco, CA (April 1989).

Mason, J. M. Traffic Management Through Public/Private Partnership. ITE International Conference on Traffic Congestion--"Beyond Gridlock: Getting There From Here," Dallas, TX (March 1989).

Mason, J. M., Y. Su, W. P. Kilareski. Development of a Knowledge-Based Expert System for Traffic and Signal Warrants. International Conference on Applications of Advanced Technologies in Transportation Engineering, American Society of Civil Engineers, San Diego, CA (February 1989). (Presented by J. M. Mason)

Mason, J. M. Intersection Sight Distance Requirements for Large Trucks. Transportation Research Board Annual Meeting, Washington, DC (January 1989).

Mason, J. M. Traffic Data Collection and Municipal Safety Liaison, Safety Panel, 1988 National Rural Technical Assistance Program (RTAP) Conference, Hershey, PA (August 1988).

Mason, J. M., D. L. Woods. Procedures for Evaluating TSM Projects. American Conference on Microcomputers in Transportation, Boston, MA (August 1987). (Presented by J. M. Mason)

Mason, J. M. Changes to Truck Size and Weight Limits. Federal Highway Administration Research Project--Safety Implications of Various Truck Configurations (DTFH61-85-C-00091). University of Michigan Transportation Research Institute (October 1986) (Invited Participant).

Mason, J. M. Operational and Geometric Evaluation of Exclusive Truck Lanes. Institute of Transportation Annual Meeting, Indianapolis, IN (September 1986).

Mason, J. M., D. L. Woods. Computer-Aided Procedures for Evaluating TSM Projects. American Society of Engineering Education Annual Conference, Cincinnati, OH (June 1986). (Presented by D. L. Woods)

Mason, J. M. Risk Management to Reduce Tort Liability. Effectiveness of Highway Safety Improvements, American

Society of Civil Engineers Highway Division, Nashville, TN (March 1986).

Mason, J. M. Continuing Education Needs in Urban Stormwater Management. Education and Professional Development in Hydrology and Hydrogeology: Needs and Opportunities, Las Vegas, NV (November 14-15, 1985).

Mason, J. M. Geometric Design Requirements for Unique Truck Roadway Facilities. Fiftieth Annual Meeting, Institute of Transportation Engineers, New Orleans, LA (August 1985).

Mason, J. M. Consideration of Larger Trucks in Pavement Design and Management. Symposium on Geometric Design for Large Trucks, Transportation Research Board, Denver, CO (August 1985).

Mason, J. M. Teaching Pavement Management System Techniques Using Computer Simulation. American Society of Civil Engineers Annual Conference, Atlanta, GA (June 1985).

Mason, J. M. Geometric Design Considerations for New Separate Truck Lane Facilities. Highways Design Division Specialty Conference, American Society of Civil Engineers, San Diego, CA (April 1985).

Mason, J. M. Geometric Design of Exclusive Truck Facilities. Geometrics and Operation Effects, Transportation Research Board Annual Meeting, Washington, DC (January 1985).

Mason, J. M. Impact of Heavy Hauling on Low Volume Roads. Transportation Research Board Committee A5002—Low Volume Roads (January 1985).

Mason, J. M. Detention Basin Design. Flood and Flood Plain Analysis, Texas A&M University (January 1985).

Mason, J. M., N. E. Walton. Effects of Vehicle Downsizing on Geometric Design. American Society of Civil Engineers Annual Meeting, San Francisco, CA (October 1, 1984). (Presented by J. M. Mason)

Mason, J. M. Highway Geometric Design Using the Microcomputer. American Society of Engineering Education Annual Conference, Salt Lake City, UT (June 1984).

Mason, J. M. 3R Practices and Safety Improvements. AASHTO-Subcommittee on Design, Region II, Asheville, NC (June 4-6, 1984).

Mason, J. M. Erosion and Sedimentation Control Practices. American Society of Civil Engineers, Texas Section, Dallas, TX (April 1984).

Mason, J. M. Effects of Special-Use Truck Traffic on Low-Volume Rural Highways. Joint Interim Committee on Public Transportation of the Arkansas General Assembly, Little Rock, AR (February 15, 1984).

Mason, J. M. Survey of States R-R-R Practices and Safety Considerations. Transportation Research Board Annual Meeting, Washington, DC (January 1984).

Mason, J. M. Investigation of the Effects of Oil Field Traffic on Low-Volume Roadways. Third International Conference on Low-Volume Roads, Tempe, AZ (July 24-28, 1983).

Mason, J. M. Detention Design Issues. Stormwater Detention Design Seminar, Rice University, Houston, TX (March 1983).

Mason, J. M. Concentration of Special Use Truck Traffic. Truck Transport Research, Transportation Research Board Annual Meeting, Washington, DC (January 1983).

Mason, J. M. The Effects of Oil Exploration and Development on Rural Highways and Pavement Design for Oil Field Impacted Roads. Fifty-Sixth Annual Short Course, State Department of Highways and Public Transportation, Texas A&M University (October 1982).

Mason, J. M. Demand Characteristics of Oil Field Traffic. American Society of Civil Engineers, Texas Section, Midland, TX (September 1982).

Mason, J. M. Effects of Oil Field Truck Traffic on Low Volume Roadways. Summer Meeting, Texas Section, Institute of Transportation Engineers, Beaumont, TX (June 1982).

Mason, J. M. Stormwater Management Alternatives. Fifty-Fifth Annual Short Course, State Department of Highways and Public Transportation, Texas A&M University (November 1981).

Mason, J. M. Modifying Highway Culverts to Provide Detention. American Society of Civil Engineers, Texas Section, Houston, TX (September 1981).

Mason, J. M. Multi-Staged Outlet Control for Small On-Site Detention. International Symposium, University of Kentucky (July 1981).

Mason, J. M. Future Research Needs Regarding Safety at Railroad-Highway Grade Crossings. Fiftieth Annual Meeting, Institute of Transportation Engineers, Pittsburgh, PA (August 1980).

Mason, J. M. Urban Stormwater On-Site Detention: A Case Study. International Symposium, University of Kentucky (July 1980).

Mason, J. M. On-Site Detention. Ninth Annual Texas Public Works Short Course, Texas A&M University (January 1980).

### **Other Speaking Engagements**

Mason, J. M., "Identifying Cost Effective Ways to Improve Highway Safety", 53<sup>rd</sup> Annual Workshop on Transportation Law, San Francisco, CA, July 14, 2014 (Invited Session Moderator).

Mason, J. M., "Models of International Collaboration in Research", Association of Public and Land-Grant Universities, Berkeley, CA, July 14, 2014 (Invited Speaker).

Mason, J. M., "Transportation Research Board-Roundtable Panel Presentation", Council of University Transportation Centers, Lincoln, NE, June 4, 2014 (Invited Speaker).

Mason, J.M., The Role of Research Universities in Securing America's Future Prosperity: Challenges and Expectations, ([www.bit.ly/MasonTestimony](http://www.bit.ly/MasonTestimony)) House Committee on Science, Space and Technology, Subcommittee on Research and Science Education Hearing, Rayburn Building, Washington, DC, June 27, 2012 (Invited Witness).

Mason, J.M., Design, Speed and Safety, Seminar at University of Florida, Gainesville, FL, March 28, 2012 (Invited Speaker).

Mason, J. M., Economic Development Alliance Innovation (Renewal), Alabama County Commissioners', Prattville, AL, November 3, 2011 (Invited Speaker).

Mason, J. M., Academic Perspectives on China Research and Education. Annual Meeting, Institute of Transportation Engineers, St. Louis, MO, August, 2011 (Invited Speaker).

Mason, J.M., Creating a Vision for Entrepreneurship and Tech-Based Economic Development, Gulf Shores, AL, August, 2011 (Invited Speaker).

Mason, J. M., Development of a Strategic Planning Process for the Highway Safety Performance Committee, the Transportation Research Board, Irvine, CA August 2011 (Invited Speaker).

Mason, J. M., Transportation Curriculum 2020, Law Workshop for the Transportation Research Board, Seattle, WA, July, 2011 (Invited Speaker).

Mason, J. M., Transportation Workforce Development, Seminar/Workshop, State College, PA, April 21, 2010 (Invited Speaker/Moderator).

Mason, J. M., The Culture of Academics: Thriving in Graduate School, Minority Programs Seminar Series, Auburn University, Auburn, AL, February 18, 2010 (Invited Speaker).

Mason, J. M., Evolution of Highway Design & Public Policy Issues, TRB Geometric Design Workshop, Washington, DC, January 10, 2010 (Invited Session Speaker).

Mason, J. M., Performance Based Highway Design, Orlando Section of ITE, Orlando, FL, November 13, 2009. (Invited Speaker).

Mason, J. M., Performance Based Highway Design, Bend Section of ITE, Bend, Oregon, October 30, 2009. (Invited Speaker).

Mason, J. M., Research Protocols-NIH Model, TRB Task Force for the Development of a Highway Safety Manual, Beckman Center, University of California-Irvine, August 18, 2009 (Session Speaker).

Mason, J. M., The Highway Safety Manual, 48<sup>th</sup> Annual TRB Workshop on Transportation Law, Denver, CO, July 21, 2009 (Invited Speaker).

Mason, J. M., Funding Sources for Engineering Research—New Engineering Educators Division/Engineering Research Council, ASEE Annual Meeting, Austin, TX, June 16, 2009 (Session Speaker).

Mason, J. M., R&D to the Rescue?, PE May 2009.

Mason, J. M., Policy Implication of the Highway Safety Manual, Transportation Engineering & Safety Conference, State College, PA, December 11, 2008 (Invited Speaker).

Mason, J. M., Developing a Sustainable Transportation System, Transportation Engineering & Safety Conference, State College, PA, December 10, 2008 (Invited Speaker).

Mason, J. M., Incorporating Operations and Safety in Design, ITE Geometric Design Handbook Series, ITE Annual Meeting, Anaheim, CA, August 18, 2008 (Invited Speaker).

Mason, J. M., The Highway Safety Manual, International Institute of Transportation Engineers, Technical Conference, Miami, FL, April 2, 2008 (Invited Speaker).

Mason, J. M., Tort, Liability, Ethics and Professionalism in Transportation, ITE Workshop, Oregon Section, Portland, OR, January 29, 2008 (Invited Speaker).

Mason, J. M., The Best Defense is a Good Offense: Risk Management Today and Tomorrow, Transportation Research Board, Washington, D.C., January 14, 2008 (Invited Panel Speaker).

Mason, J. M., Overview of Urban Geometric Design Handbook, ITE Annual Meeting, Pittsburgh, PA, August 7, 2007. (Invited Moderator/Speaker).

Mason, J.M., J. Freeman and Radu Nan, Practical Project Management for the Transportation Professional, ITE Annual Meeting, Pittsburgh, PA, August 5, 2007. (Session Speaker).

Mason, J. M., ITE's Urban Geometric Design Handbook, Technical Conference, San Diego, CA, March 27, 2007. (Invited Speaker).

Mason, J. M., Privatization of Pennsylvania Roads, WHYY Radio, June 7, 2007. (Invited Radio Panelist).

Mason, J.M., Transportation Profession-Working in a University, Session 179, Transportation Research Board, Washington, D.C., January 21, 2007 (Invited Speaker).

Mason, J.M., Contemporary Geometric Design Issues, Session 361, Transportation Research Board, Washington, D.C., January 22, 2007 (Invited Moderator/speaker).

Mason, J.M., The Research Enterprise: Researchers Going from Good to Excellent, Session 642, Transportation Research Board, Washington, D.C., January 24, 2007 (Invited Speaker).

Mason, J.M., The US Highway Safety Manual: Potential for Incorporating ITS Applications, ITS ARAB, Middle East Conference, Dubai, UAE, December 2006. (Invited Speaker)

Mason, J.M., “What is the Right Balance Between Security and Liberty?”, ITS ARAB, Middle East Conference, Dubai, UAE, December 2006. (Invited Speaker).

Mason, J. M., Geometric Design Best Practices, Annual Meeting of the International Institute of Transportation Engineers, Milwaukee, WI, August 2006. (Moderator/speaker).

Mason, J. M., Strategic Geometric Design Research Needs, Session 726, Transportation Research Board, Washington, D.C., January 12, 2005. (Moderator and Speaker).

Mason, J. M., The Growing Shortage of Transportation Personnel—Strategic Planning and Workforce Issues, Session 620, Transportation Research Board, Washington, D.C., January 12, 2005. (Invited Speaker).

Mason, J. M., Working in a University—Workshop 165, Transportation Research Board, Washington, D.C., January 9, 2005 (Invited Speaker).

Mason, J. M., Evaluating and Documenting Outreach Scholarship: Framing the Scholarship of Engagement at your Institution, Outreach Scholarship Conference, Penn State University, University Park, PA, October 3, 2004. (Invited Speaker).

Mason, J. M., Transportation Workforce Development, TRANSTEC, Athens, Greece, September 2004. (Invited Keynote Speaker).

Mason, J. M., Transportation Education and Workforce Development, 74th Annual Meeting of the International Institute of Transportation Engineers, Lake Buena Vista, FL, August 2004. (Invited Session and Board Meeting Speaker).

Mason, J. Geometric Design Considerations for Freeways and Interchanges, 74<sup>th</sup> Annual Meeting of the International Institute of Transportation Engineers, Lake Buena Vista, FL, August 2004 (Invited Moderator).

Mason, J. M., Context Sensitive Roadway Designs and Design Exception Practices, Federal Highway Administration and Kentucky Transportation Cabinet, Louisville, KY August 2004 (Invited Speaker).

Mason, J. M., Workforce Development, Professional Development Seminar for the District 5 ITE, Covington, KY, April 2004 (Invited Speaker).

Mason, J. M., Legal Aspects and Issues in Developing the Highway Safety Manual, Transportation Research Board, Washington, D.C., January 2004. (Speaker and Moderator).

Mason, J. Strategic Plan for Producing a Highway Safety Manual, Transportation Research Board, TRB Subcommittee for a Highway Safety Manual, Kansas City, MO, September 30, 2003. (Co-presenter with W. Hughes, BMI).

Mason, J. Highway Safety Manual Summary Report of Policy Committee to the Tort Liability and Risk Management Committee of TRB, 42<sup>nd</sup> Annual Workshop on Transportation Law, New Orleans, LA, July 21, 2003. (Invited Speaker).

Mason, J. Strategic Geometric Design Research Program, AASHTO Geometric Design Task Force, Charleston, SC, July 14, 2003. (Invited Speaker).

Mason, J. Exploring the Opportunities for the National Highway R&T Program, Council of University Transportation Centers, Knoxville, TN, June 7, 2003. (Invited Speaker).

Mason, J. ASEE/ERC Workshop on Research, Washington, DC, February 2003. (Co-chair; Moderator; Presenter).

Mason, J. Improving Safety Through Geometric Design, Transportation Research Board Annual Meeting Session 322, Washington, DC, January 13, 2003. (Invited Moderator).

Mason, J. M., Basic Roadway Design Elements: Fundamental Research Issues, Gaps in the Road to Safe Highway Design, Transportation Research Board, Washington, D.C., January 2003. (Invited Speaker).

Mason, J. Infrastructure Research and Technology Stakeholder Workshop, USDOT- Federal Highway Administration, Chicago, IL, October 30, 2002. (Co-chair – Stakeholder Workshop Session).

Mason, J. Overview of the ITE Geometric Design Handbook, MASITE Meeting, Harrisburg, PA, October 3, 2002. (Invited Speaker).

Mason, J. Highway Infrastructure & Operations, Research and Technology Partnership Workshop, National Academy of Sciences, Irvine, CA, September 17-18, 2002. (Invited Speaker and Session Facilitator/Moderator).

Mason, J. Context Sensitive Design Workshop – Cross-Section and Alignment Consistency, Sea to Sky Highway – for the Ministry of Transportation, Vancouver, British Columbia, CANADA, August 14, 2002. (Invited Speaker).

Mason, J. Designing to Meet Operational and Safety Needs, Annual Meeting of the International Institute of Transportation Engineers, Philadelphia, PA, August 5, 2002. (Invited Moderator).

Mason, J. M., Workforce Development and Staffing Needs within the Transportation Community—Academic Perspective, TRB Executive Committee Meeting, Woods Hole, MA, June 2002. (Invited Speaker).

Mason, J. M., Design Exception Considerations in Context Sensitive Design, TRB-Visualization in Transportation, Symposium and Workshop, Salt Lake City, Utah, April 2002.

Mason, J. Goals for Improving the Relationship Between Highway Geometric Design and Safety, Transportation Research Board Annual Meeting, Session 550, January 16, 2002. (Invited Moderator).

Mason, J. M., Rural Intersection Group Report, Milwaukee Intersection Safety Conference, Institute of Transportation Engineers, Milwaukee, WI, November 2001. (Invited Presenter).

Mason, J. Operational Effects of Geometric, Professional Traffic Operations Engineer Refresher Course, 2000 Transportation Engineering and Safety Conference, University Park, PA, December 6, 2000. (Invited Speaker).

Mason, J. Design Considerations of Roundabouts, Roundabout Workshop, 2000 Transportation Engineering and Safety Conference, University Park, PA, December 6, 2000. (Invited Speaker).

Mason, J. Operational and Safety Effects of Geometric Designs, 2000 Transportation Engineering and Safety Conference, University Park, PA, December 7, 2000. (Invited Moderator).

Mason, J. Designing with Function in Mind, Geometric Design Task Force, Annual Meeting of the International Institute of Transportation Engineers, Nashville, TN, August 7, 2000. (Invited Moderator).

Mason, J. How to Equip the Transportation Professional of the Future, Environmental Process Session at the National Conference on Transportation and Environment for the 21<sup>st</sup> Century, Pittsburgh, PA, July 23, 2000 (Invited Moderator).

Mason, J. The Next SHRP Research Program, University Perspective, The 5<sup>th</sup> Annual Pennsylvania Transportation Industry Conference. Hershey, PA, March 30, 2000 (Invited Speaker).

Mason, J. Roundabout Informational Guide of FHWA, Geometric Design Issues, Gainesville and Orlando, FL, (November 1-2, 1999) (Invited Course Instructor).

Mason, J. Certification and Professional Development, ITE District 2 Annual Meeting, State College, PA, May 14,

(Invited Panel Presentation).

Mason, J. Intelligent Transportation Systems Statewide Strategic Plan, Pennsylvania Department of Transportation, Camp Hill, PA, May 4, 1999 (Invited Session Group Leader).

Mason, J. Responding to the Changing Needs of the Profession, Forum on Transportation Education and Training, Transportation Research Board, Washington, D.C., January 1999. (Invited Workshop Facilitator).

Mason, J. Developing Innovative ITS Training and Education Programs for Existing and Future Transportation Professionals, Transportation Research Board, Washington, D.C., January 1999. (Invited Panel Discussant).

Mason, J. Professional Traffic Operations Engineer Certification Program, Transportation Engineering and Safety Conference, Penn State University, University Park, PA, December 11, 1998. (Invited Speaker).

Mason, J. Young Driver Symposium, Enhancing the Licensing Process, Harrisburg, PA. August 24-25, 1998. (Invited Moderator).

Mason, J. Panel participant, Intelligent Vehicle Initiative, Transportation Engineering Perspectives, TRB A3A53 – Vehicle Highway Automation Task Force meeting, Pittsburgh, PA. July 20, 1998 (Invited Panel Participant)

Mason, J. Flexibility in Design--Liability Issues, National Workshop on Integrating Highway Development with Communities and the Environment. University of Maryland, College Park, MD. May 4, 1998. (Invited Resource Speaker).

Mason, J. M. Intelligent Transportation Systems. American Society of Highway Engineers, Harrisburg Section and American Society of Civil Engineers, Central Pennsylvania Section, Camp Hill, PA (February 2, 1998). (Invited Speaker)

Mason, J. M. Traffic Calming Issues. Lehigh Valley Sections of the American Society of Civil Engineers, Allentown, PA (January 20, 1998). (Invited Speaker)

Mason, J. M. Urban Street Design. Human Factors in Transportation Workshop--Design Consistency Issues, Transportation Research Board, Washington, DC (January 11, 1998). (Invited Presenter)

Mason, J. M. Management and Training Issues. ITS America 7th Annual Meeting, Washington. DC (June 2-5, 1997). (Moderator)

Mason, J. M. Session 12b: Current Research. 1996 Traffic Engineering and Safety Conference, Penn State Scanticon Conference Center Hotel, State College, PA (December 9-11, 1996). (Session Coordinator)

Mason, J. M. Session 7: Engineering Education Program Workshop. 1996 Traffic Engineering and Safety Conference, Penn State Scanticon Conference Center Hotel, State College, PA (December 9-11, 1996). (Session Coordinator)

Mason, J. M. Session 3: Technology Challenge - How Technology Impacts Our Profession. Institute of Transportation Engineers District 2 Annual Meeting, Gaithersburg, MD (October 21-22, 1996). (Invited Panel Presentation)

Mason, J. M. S. Bronzini. Session M-24: Other-ITS Education and Training. "Strategic Plan for ITS Education and Training." Third Annual World Congress on Intelligent Transport Systems, Orlando, FL (October 13-16, 1996). (Speaker)

Mason, J. M. Steering Committee for ITS Professional Capacity Building. Third World Congress on Intelligent Transport Systems, Orlando, FL (October 13-16, 1996). (Invited Participant)

Mason, J. M. Session 25: Re-Educating the Profession. "Education and Training Needs of Intelligent Transportation Systems (ITS)." Transportation Education Council, Institute of Transportation Engineers 66th Annual Meeting, Minneapolis, MN (September 15-18, 1996). (Invited Speaker)

Mason, J. M. Session 5T: Access Spacing. Second National Conference on Access Management, Transportation Research Board, Vail, CO (August 11-14, 1996). (Session Moderator)

Mason, J. M. Intelligent Transportation Systems (ITS) Maryland, Brookland, MD (August 6, 1996). (Invited Focus Group Participant)

Mason, J. M. Symposium on Highway Safety Technology Action Plan. Federal Highway Administration, U.S. Department of Transportation, Washington, DC (July 25-26, 1996). (Invited Participant)

Mason, J. M. ITS Training Business Plan S Professional Capacity Building, Federal Highway Administration, U.S. Department of Transportation, Washington, DC (July 16, 1996). (Invited Participant)

Mason, J. M. The Coordination of Engineering Standards and Practices in National Transportation. Transportation Safety Board, Washington, DC (May 23, 1996). (Invited Speaker)

Mason, J. M. ITS Issues in ISTEA Reauthorization. ITS America 6th Annual Meeting, Houston, TX (April 15-18, 1996). (Invited Focus Group Participant)

Mason, J. M. Session 2: ITS Education and Training Issues. ITS America 6th Annual Meeting, Houston, TX (April 15, 1996). (Moderator)

Mason, J. M. Session 22: Keeping Personnel Up to Date Beyond the Classroom. Education Council, Institute of Transportation Engineers International Conference, Dana Point, CA (March 3-6, 1996). (Moderator)

Mason, J. M. Development of the LTAP Transition Plan. LTAP/Penn DOT Strategic Planning, Team Decision Center, Penn State Scanticon, State College, PA (February 13, 1996). (Moderator/Facilitator)

Mason, J. M. Penn DOT ITS Strategic Plan Development. Center for Urban Transportation Research, University of South Florida, Tampa, FL (January 19, 1996). (Invited Speaker)

Mason, J. M. Session 231: Geometric Design Issues. Transportation Research Board Annual Meeting, Washington, DC (January 7-11, 1996). (Session Moderator)

Mason, J. M. Penn Dot's Traffic Engineering Education Program. Traffic Engineering and Safety Conference, State College, PA (December 4-6, 1995). (Invited Speaker)

Mason, J. M. ITS Education and Training. Transportation Speaker Series, University of Michigan, Ann Arbor, MI (November 16, 1995). (Invited Speaker)

Mason, J. M. Civil Engineering Careers: Awareness, Retention and Curriculum. American Society of Civil Engineers, 1995 Annual Convention, San Diego, CA (October 26, 1995). (Invited Speaker)

Mason, J. M. Overview of Pennsylvania's ITS Strategic Plan. University Center for Transportation Research, Virginia Polytechnic Institute and State University, Blacksburg, VA (October 11, 1995). (Invited Speaker)

Mason, J. M. ITS America--Education and Training Strategic Plan. International Workshop on Advanced Traffic Management Systems (ATMS), St. Petersburg Beach, FL (October 1-6, 1995). (Invited Speaker and Work Group Chair, Education and Training)

Mason, J. M. Transportation Education Issue Briefing. Transportation Careers: Awareness, Retention, and Curriculum Issues. Transportation Educators Council, Institute of Transportation Engineers, Denver, CO (August 5-8, 1995). (Invited Speaker)

Mason, J. M. Session 24: Human Factors. Design Tools for Improving Highway Safety, Human Factors Track at Institute of Transportation Engineers Annual Meeting, Denver, CO (August 5-8, 1995). (Invited Panel Participant)

Mason, J. M., J. P. Tarris. Forensic Accident Analysis--A Conceptual Plan for the Diagnostic Approach to the

IHSDM Accident Analysis Module. FHWA Accident Analysis Workshop, Turner-Fairbank Highway Research Center, McLean, VA (June 15-16, 1995). (Presented by J. M. Mason) (Invited Speaker)

Mason, J. M. Diagnostic Approach for the Development of the IHSDM Accident Analysis Module. FHWA Accident Analysis Workshop, Turner-Fairbank Highway Research Center, McLean, VA (June 15-16, 1995). (Invited Speaker)

Mason, J. M. Intelligent Transportation Society (ITS) of America Education and Training Strategic Planning Workshop, Reston, VA (June 12-14, 1995). (Subcommittee Chair).

Mason, J. M. Project Committee on Urban Traffic Engineering. Institute of Transportation Engineers/Federal Highway Administration, Fort Lauderdale, FL (April 12, 1995). (Invited Participant)

Mason, J. M. 1995 Roadway Management Conference, Gettysburg, PA (March 14, 1995). (Invited Speaker)

Mason, J. M. Project Committee on Urban Traffic Engineering. Institute of Transportation Engineers/Federal Highway Administration, Washington, DC, (February 22, 1995). (Invited Participant)

Mason, J. M. Local Road and Street Safety Improvement Program. District 5, Institute of Transportation Engineers Annual Meeting, Raleigh, NC (April 25, 1994). (Invited Speaker)

Mason, J. M. Session 10: Education and Training. IVHS AMERICA 4th Annual Meeting, Atlanta, GA (April 18, 1994). (Moderator)

Mason, J. M., J. P. Tarris. Relationship of Operating Speeds to Roadway Geometric Design Speeds. Oral report presentation to Federal Highway Administration, McLean, VA, Grant No. DTFH61-92-X-00017. (August 19, 1993)

Mason, J. M. Managing Tomorrow's Transportation. Annual Meeting of the Northeastern Association of State Highway and Transportation Officials (NASHTO), Princeton, NJ (May 3, 1993). (Invited Speaker)

Kostival, L. M., J. M. Mason. Strategies for Enhancing the Undergraduate Engineering Pool. American Society for Engineering Education, North Central Section Annual Conference, Pittsburgh, PA (April 1993). (Co-Principal Author)

Mason, J. M. Traffic Control Devices/Work Zones. Presented for the Pennsylvania Department of Community Affairs, Municipal Risk Management Training Series for Road Officials, Lionville, PA (February 9, 1993). (Speaker)

Mason, J. M. Intersection Design and Safety Improvements. Satellite Conference via Engineering Professional Development, University of Wisconsin-Madison (December 3, 1992). (Invited Speaker)

Mason, J. M. Low Volume Roads Handbook. FHWA Region VI County Road Advisor's Third Annual Conference, Arlington, TX (October 22, 1992). (Invited Speaker)

Mason, J. M. Strategies for Enhancing the Civil Engineering Pool. Engineering Pipeline National Conference, Houston, TX (September 25, 1992).

Mason, J. M. Enhancing the Pool of Transportation Engineers. Southeastern Regional Conference on Traffic Engineering, Charlotte, NC (July 29, 1992). (Invited Speaker)

Mason, J. M. Enhancing the Civil Engineering Pool. Mid-Atlantic Universities Transportation Centers Conference, Washington, DC (November 7, 1991).

Mason, J. M. IVHS in Northeast United States. American Society of Highway Engineers, Joint Pennsylvania Section, Mt. Pocono, PA (April 1991). (Invited Speaker)

Mason, J. M. Risk Management to Reduce Tort Liability for Roads and Streets Conference. Presented for the Department of Community Affairs and Pennsylvania Department of Transportation, New Cumberland, PA (October 24-25, 1990). (Speaker)

Mason, J. M. -- Coalition to Advance Transportation Science and Technology in the Northeast, Organizational Workshop. Northeast Association of State Highway and Transportation Officials, Philadelphia, PA (September 9-11, 1990). (Program Coordinator, Speaker, and Session Moderator)

Mason, J. M. Road Maintenance: Risk Management/Tort Liability. Presented for the Pennsylvania Roads Scholar Program. Pennsylvania Department of Transportation and Department of Community Affairs, Meadville, PA (August 31, 1990), York, PA (August 21, 1990), and Allentown, PA (August 28, 1990). (Speaker)

Mason, J. M. Session 4: Applying Advanced Technologies. Institute of Transportation Engineers, Annual Meeting, Orlando, FL (August 1990). (Invited Panel Moderator)

Mason, J. M. "National Rural Transportation Assistance Program (RTAP) Teleconference," (November 15, 1989). (Invited Speaker)

Mason, J. M. Roadway Engineering Concepts for Tort Claims Attorneys, Missouri State Highway Commission and Attorney Generals Office. Jefferson City, MO (September 18-20, 1989). (Speaker)

Mason, J. M. Road Maintenance: Risk Management/Tort Liability. Presented for the Pennsylvania Roads Scholar Program. Pennsylvania Department of Transportation and Department of Community Affairs, State College, PA (August 8, 1989) and Wilkes-Barre, PA (August 16, 1989). (Speaker)

Mason, J. M. Roadway Engineering Concepts for Tort Claims Attorneys. Pennsylvania Department of Transportation and Attorney Generals Office. Camp Hill, PA (August 10-11, 1989). (Speaker)

Mason, J. M. Design/Operational Innovations for the Future. Engineering 21st Century Highways, American Society of Civil Engineers, San Francisco, CA (April 24-26, 1989). (Session Moderator)

Mason, J. M. Road Maintenance Liability. Presented for the Pennsylvania Department of Community Affairs, Pennsylvania Local Roads Program, Reading, PA (December 7, 1988) and Williamsport, PA (December 9, 1988). (Speaker)

Mason, J. M. Consultant's Viewpoint. Presented at the Management Program for Transportation and Highway Engineers -- Executive Program, Penn State University, University Park, PA (November 2, 1988). (Speaker)

Mason, J. M. Transportation-Related Research Needs. Presented to the Subcommittee on Investigations and Oversight of the Committee on Public Works and Transportation, United States, House of Representatives, Penn State, University Park, PA (June 20, 1988).

Mason, J. M. Means for Incorporating Operational Effects. Beyond the Green Book Conference, Transportation Research Board, Austin, TX (November 10, 1987). (Session Leader)

Mason, J. M. Current Design Criteria and Design Guides. Beyond the Green Book Conference, Transportation Research Board, Austin, TX (November 10, 1987). (Panel Member)

Mason, J. M. Work Zone Traffic Control. Presented for the Pennsylvania Department of Community Affairs to the Pennsylvania Association of Township Engineers, West Middlesex, PA (October 6, 1987). (Speaker)

Mason, J. M. Risk Management to Reduce Highway Tort Liability. Texas State Department of Highways and Public Transportation at Texas A&M University, College Station, TX (October 1-2, 1987). (Lecturer)

Mason, J. M. The Transportation Engineering Profession. Institute of Transportation Engineers Student Chapter, The Pennsylvania State University (September 1987). (Speaker)

Mason, J. M. Session 4: Can We Modify Transportation Demand. Institute of Transportation Engineers Annual Meeting, New York, NY (August 1987). (Discussant)

## **CONTINUING EDUCATION/EXTENSION PROGRAM**

“AASHTO’s A Policy on Geometric Design of Highways and Streets,” Present Three Day Short Course:

- College Station, Texas, September 1985
- Houston, Texas, December 1985
- Austin, Texas, January 1986
- Bryan, Texas, March 1986
- Oklahoma City, Oklahoma, July 1986
- Tulsa, Oklahoma, August 1986
- Dallas, Texas, April 1987
- College Station, Texas, February 1990

Coordinator for “Southwest Regional Symposium and Workshop on Urban Stormwater Management,” Texas A&M University:

- October 11-14, 1982
- November 28-30, 1983
- December 17-19, 1984
- December 16-18, 1985

“Functional Requirements of Highway Safety Features,” Present Three Day Short Course:

- Phoenix, Arizona, October 1981
- Augusta, Maine, January 1982
- Chicago, Illinois, February 1982
- Boise, Idaho, May 1982
- Honolulu, Hawaii, September 1982
- Montpelier, Vermont, November 1982
- Montgomery, Alabama, May 1983
- Trenton, New Jersey, October 1983

“Geometric Design Policies--AASHTO 1984 Greenbook,” as Co-Instructor, Five Weeks:

- Satellite Televised Course, CE 497D, Penn State University, University Park, PA, March-April 1989.

“Highway Topics: - Professional Engineers Review Course,” Co-Instructor, Three Days, Allentown, Pennsylvania, April 1978.

“Local Road and Street Safety Program,” Present Two Day Short Course:

- State College, Pennsylvania, February 1989; May 1992.

“Performance Based Highway Design”, Seminar Series, with Kittelson & Associates, Session Speaker:

- Tucson, AZ (May 2009)
- Ft. Lauderdale, FL (July 2009)
- Bend, OR (October 2009)
- Orlando, FL (November 2009)
- Boise, ID ( December 2009)

“Risk Management to Reduce Tort Liability,” Present Three Day Short Course:

- Austin, Texas, September 1985
- College Station, Texas, December 1985
- Oklahoma City, Oklahoma, June 1986
- College Station, Texas, October 1987; March 1988
- Manhattan, Kansas, April 1988
- San Antonio, Texas, August, 1988

- College Station, Texas, September, 1988; February 1991
- Arlington, TX, June 1991

“Roadway Engineering Concepts for Tort Claims Attorneys,” Present Two Day Short Course:

- Arlington, Texas, April 1987
- Harrisburg, Pennsylvania, July 1989
- Jefferson City, Missouri, September 1989

“Selection, Location and Design of Traffic Barriers,” Present Five Day Short Course, Nashville, Tennessee, August 1981.

“Traffic Orientation Workshop for Elected Officials and Administrators”, Present One Day Short Course:

- El Paso, Texas, June 1983
- Dallas, Texas, August 1983
- Houston, Texas, October 1983
- Salado, Texas, June and August 1984
- Salado, Texas, May 1985

“Traffic Signal Workshop” - Present Five Day Short Course, Ada, Oklahoma, August 1979.

“Transportation and Traffic Engineering Short Course,” for Penn DOT, (Presenter on Human Factors Section), June 9, 1987, State College, PA.

“Transportation Systems Management,” Present Three Day Short Course:

- College Station, Texas, January 1989
- College Station, Texas, March 1990

“Urban Stormwater Management, On-Site Detention,” Present Two Day Short Course, Texas A&M University System:

- College Station, Texas, December 1980
- Dallas, Texas, July 1981

“Your Day in Court,” Mid-Atlantic Universities Transportation Center, Penn State University, University Park, PA, (April 1993) (Presenter)

Engineering Research Council: Summit, Workshop and Forum. Washington, DC. ( March 3, 1998). (Participant).

## **PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION**

Institute of Transportation Engineers, Technical Transportation Program, 1-day, St. Louis, MO, (August 15, 2011) (PDH 8.0).

Institute of Transportation Engineers, Technical Conference, Lake Buena Vista, (April 4-6, 2011) (PDH 16.0).

Institute of Transportation Engineers, Technical Conference, 1-day seminar on Highway Safety Manual, Lake Buena Vista, (April 3, 2011) (PDH 7.0).

Transportation Research Board, Annual Technical Meeting, Washington , DC (January 20-23, 2011) (PDH 28.0).

Institute of Transportation Engineers, Technical Transportation Program, 1-day, Vancouver, BC, CANADA, (August 10, 2010) (PDH 8.0).

Senior Editor, Geometric Design Series Handbook, Institute of Transportation Engineers (Freeways: 2007 & Urban:

2008) (PDH 20.0); Rural:2010 in progress.

Donnell, E. T. and J. M. Mason. "Chapter 12: Geometric Design for Traffic." Traffic Engineering Handbook (W. Kraft, editor). Institute of Transportation Engineers, Washington, DC, 2008 (in press). (Contributing Author: PDH 10.0).

Institute of Transportation Engineers Education Foundation, Practical Project Management for the Transportation Professional Seminar, Pittsburgh, PA, (August 5, 2007) (PDH 13.0).

ABET/EAC Program Evaluator Training Workshop: Engineering Criteria 2000, by NSPE, Washington, DC (January 27, 2000)

Traffic Engineering and Safety Conference, The Pennsylvania State University, University Park, PA (December 4-6, 1995) (CEU = 2.0).

Pennsylvania Information Highway Consortium Conference, Penn State Scanticon Conference Center, University Park, PA (June 6, 1995) (CEU = 0.6).

Tort Liability and Risk Management for Surface Transportation, Penn State University, University Park, PA (April 4, 1993) (CEU = 0.4).

Freshman Engineering Design Workshop, College of Engineering, Penn State University, University Park, PA (October 26, 1992).

Writing Across the Curriculum Workshop, Penn State University, University Park, PA (February 27, 1991).

Expert Systems Tutorial: Expert Systems in Civil Engineering, sponsored by the American Society of Civil Engineers, San Diego, CA, (February 2, 1989).

Traffic Congestion '88: Issues and Answers, sponsored by Institute of Transportation Engineers, Tampa, FL, (March 20-23, 1988).

Special Safety Considerations of Operating Larger Vehicles, Human Factors Workshop, sponsored by Transportation Research Board, Washington, DC, (January 12, 1986).

Accident Reconstruction and Analysis, sponsored by Institute of Transportation Engineers, Dallas, TX, (November 20, 1985) (CEU = 0.7).

Stormwater Detention for Practicing Engineers, sponsored by American Society of Civil Engineers, Texas Section, (March 28, 1985).

Pavement Management Seminar for College Faculty, sponsored by Federal Highway Administration, University of Texas, (August 6-17, 1984).

Risk Management Workshop, sponsored by Transportation Systems Management Association and University of Alabama, (May, 1983).

Computing and Engineering--Microcomputer Application, Thigpenn Enterprises, TX, (April, 1983).

Flood Control: Design and Management, sponsored by American Society of Civil Engineers at Rice University, (January, 1981).