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JOHN M. MASON, JR., PH.D., PE

SENIOR PRINCIPAL ENGINEER | JMASON@KITTELSON.COM

EDUCATION

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

PROFESSIONAL ENGINEER

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

EMPLOYMENT HISTORY

2024 - Present Senior Principal Engineer, Kittelson and Associates/Kittelison LLC
2018-2024 Chancellor/Dean/Professor of Civil Engineering and Special Advisor to the Interim Chancellor, Penn State-Harrisburg/The Capital College
2008-2018 Vice President, Research & Economic Development, President of Auburn Research & Technology Foundation, and Professor of Civil Engineering, Auburn University, Alabama
1987-2008 Associate Dean of Engineering, Director of Pennsylvania Transportation Institute and Professor of Civil Engineering, University Park, PA; Kilareski & Mason, Consulting Engineering Services, State College, PA
1986-1987 District Transportation Manager, Post, Buckley, Schuh, & Jernigan, Inc., Tampa, FL
1979-1986 Program Manager--Implementation and Design Program, Assistant Research Engineer, Texas Transportation Institute (TTI), and Assistant Professor of Civil Engineering, Texas A&M University, College Station, TX
1976-1979 Assistant/Associate Professor, Civil and Construction Technology, Lehigh County Community College, Schnecksville, PA; and Civil Engineer, G. Edwin Pidcock Co., Consulting Engineers and Surveyors, Allentown, PA
1972-1976 Civil Engineer, Sanders and Thomas, S.T.V., Inc., Consulting Engineers, Pottstown, PA
1972-1972 Engineer-in-Training, Porter & Ripa Associates, Engineers & Architects, Morristown, NJ

PROFESSIONAL INTERESTS

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

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 – technical/professional

W. N. Carey, Jr., 2023-Distinguished Service Award, National Academies-Transportation Research Board
2012 Outstanding Paper—Geometric Design Committee, Transportation Research Board, “Geometric Design, Speed, and Safety” Contributing Author R.J. Porter and E.T. Donnell. (January 2012).
Wilbur S. Smith, Distinguished Transportation Educator Award, via the Institute of Transportation Engineers (August 2010).

Best Paper Award, 3rd 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 (January 2005).

Steinberg Award, American Road and Transportation Builders Association, (March, 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, for the report, "Geometric Design and Operational Considerations for Trucks" (August 10, 1992).

1990 Outstanding Paper on the Operational Effects of Geometrics, Transportation Research Board, 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).

RECOGNITIONS

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

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 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 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.

COMMITTEE MEMBERSHIPS

Professional Societies/Activities-sample listing:

American Road & Transportation Builders Association: Member, Design-Build Task Force (1996) and 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 2008); Executive Committee (1993-97); Chair, Highway Division (1995-96); Geometric Design and Operations Committee of the Highway Division; Life Member (Jan. 1, 2015); 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); Reviewer, *Journal of Transportation Engineering* (1988-2008); Reviewer, “Residential Streets Guide” (1987)

Federal Highway Administration: 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.

Institute of Transportation Engineers: Advisory Committee on Intelligent Vehicle/Highway Systems (Chair, Subcommittee on Institutional Requirements & Policies (1991-93); Truck Terminal Design for Double-Bottom Trucks (Chair, 1984-86); Operational Characteristics of Trucks (Chair, 1987-1990; Member, 1990-92); Guidelines for Rail/Highway Crossing Closure (1980); Impact Analysis of Proposed Development (1982-84) (Published Summary Report--” Guidelines for Transportation Impact Assessment of Proposed New Development,” ITE Journal (June 1988); Truck Trip Generation (1986-1988); Editorial Board – ITE Learned Journal (2009-2018); Fellow Member (June 1991); Geometric Design Handbook/Task Force (Co-Chair 1999-2001); Sr. Editor – Geometric Design Handbook Series (2003-2018); Standards Approval Board (Appointed, 1991-1994).

ITS America: Coordinating Council, Member (1997-2000) Education and Training Subcommittee, Chair (1993-1996); Education and Training Committee, Chair (1997-2000); University R&D Issues Subcommittee, Member (1992-1993)

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)

Transportation Research Board:

Committee ANB25, Highway Safety Performance (2011-14; 2014-17; 2017-20); 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 20-05, Panel (Topic 36-07), Training Program Needs, Policies, and Practices (2004)

NCHRP Project 20-05, Panel (Topic 33-08), Recruiting and Retaining Professional Staff in State Transportation Agencies (2003)

NCHRP Project 20-05, Panel (Topic 35-04), Value Engineering Practices in Transportation (2003-04)

NCHRP Project 20-05, Panel (Topic 40-07), Trade-off Considerations in Highway Geometric Design (2008-2011)

NCHRP Project 20-05, Panel (Topic 41-01), Geometric Design Practices for Resurfacing, Restoration, and Rehabilitation (2009-10)

NCHRP Project 20-05, Panel (Topic 42-04), Geometric Design Research and Practice for Improved Safety, Operations and Maintenance (2010-11)

NCHRP Project 20-05, Panel (Topic 43-05), Practical Design/Solutions Practices (2011-12)

NCHRP Project 20-05, Panel (Topic 44-05), Safety Crash Data Management among State and Local Agencies (2012-13)

NCHRP Project 20-05, Panel (Topic 45-09), ID/IQ Contracting Effective Practices (2013-14)

NCHRP Project 20-05, Panel (Topic 46-07), State Safety Practices for Local Agencies (2014-15)

NCHRP Project 20-05, Panel (Topic 47-04), Leveraging Technology for Transportation Agency Workforce Development and Training (2015-16)

NCHRP Project 20-05, Panel (Topic 48-16), Construction and Rehabilitation of Concrete Pavements under Traffic (2016-17)

NCHRP Project 20-05, Panel (Topic 49-07), Managing Transportation Research Programs (2017-18)

NCHRP Project 20-05, Panel (Topic 50-11), Alternative Intersection Design and Selection (2018-19)

NCHRP Project 20-05, Panel (Topic 51-19), Public Private Partnerships (2019-2020)

NCHRP Project 15-50, Panel: Update to TRB Special Report 214: Designing Safer Roads – Practices for Resurfacing, Restoration and Rehabilitation, National Cooperative Research Program, National Academy of Science (2012-present)

NCHRP Project 15-76, Panel: Designing for Target Speed, National Cooperative Research Program, National Academy of Science (2020-23)
NCHRP Project 15-77, Panel: Geometric Design Controls, Criteria and Elements, National Cooperative Research Program, National Academy of Science (2020-23)
NCHRP Project 20-110, Panel: Best Practices for Increasing Access to the Results of Federally Funded Scientific Research, National Cooperative Research Program, National Academy of Science (Chair: 2015-2018)
NCHRP Project D23-14, Panel: Research Roadmap for Knowledge Management (2020-22)
Paper Reviewer (September 1981-82, and 1985-present)
NAS/NRC Reviewer: Conference Proceedings-Connected and Automated Vehicles: The 9th University Transportation Centers Spotlight Conference, Washington, DC, (Nov. 2015 to Jan. 2016)
Planning Committee for the 2nd 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)

PRIVATE SECTOR

Board of Directors, Member, Kittelson & Associates, Inc. (2012-2019); Consultant (2018-present)
Board of Directors, Member, Dowling & Associates (2012-2015)
Sr. Advisor, MIXON HILL, Inc. (2020-2022)

PUBLICATIONS (abbreviated listing)

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)

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)

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).

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)
- 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)
- Harwood, D. W., J. M. Mason. "Horizontal Curve Design for Passenger Cars and Trucks." *Transportation Research Record* 1445:22-33 (1994). (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. "Operational and Geometric Evaluation of Exclusive Truck Facilities." *Transportation Research Record* 1122:116-131 (1987). (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)

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. Kilaeski. 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)

Other Significant Reports (stand alone documents):

Ray, B. L., E. M. Ferguson, J. K. Knudsen, R. J. Porter, J. M. Mason. "Performance-Based Analysis of Geometric Design of Highways and Streets." *National Cooperative Highway Research Program Report* 785:121 pp. Transportation Research Board (2014). (Associated Contributing Author/Sr. Advisor)

Ray, B. L., J. Schoen, P. Jenior, J. Knudesen, R. J. Porter, J. P. Leisch, J. Mason and R. Roess. "Guidelines for Ramps and Interchange Spacing." *National Cooperative Highway Research Program Report 68*. Transportation Research Board (2011). (Associated Contributing Author)

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)

Donnell, E. T. and J. M. Mason. "Chapter 17: Context-Sensitive Design of Highways and Streets." *Handbook of Transportation Policy and Administration* (J. F. Plant, editor). CRC Press, Boca Raton, FL, 2007, pp. 305-330. (Contributing Author)

Elefteriadou, L., C. Fang, R. P. Roess, E. Prassas, J. Yeon, X. Cui, A. Kondyli, H. Wang, J. Mason. "Capacity and Quality of Service of Interchange Ramp Terminals." *National Cooperative Highway Research Program Report 3-60*:432 pp. Transportation Research Board (2005). (Contributing Author)

Mason, J.M. and Kevin M. Mahoney. "Design Exception Practices – A Synthesis of Highway Practice." *National Cooperative Highway Research Program Report Synthesis 316*:82 pp. Transportation Research Board (2003). (Co-Principal Author)

Harwood, D. W., J. M. Mason, R. E. Brydia, M. T. Pietrucha, G. L. Gittings. "Intersection Sight Distance." *National Cooperative Highway Research Program Report 383*:107 pp. Transportation Research Board (1996). (Contributing Author)

Mason, J. M., J. D. Blaschke, D. M. Chang. "Training Aid for Applying NCHRP Report 263 -- Simplified Procedures for Evaluating Low-Cost TSM Projects." *National Cooperative Highway Research Program Report 283*:34 pp. Transportation Research Board (April 1986). (Co-Principal Author)

Editor:

Elizer, M., K. Hooper, J. M. Mason, *Urban Street Geometric Design Handbook*, Institute of Transportation Engineers, pp.: ISBN No: 13:978-1-933452-35-7. (December 2008). (Sr. Editor)

Leisch, J. and J. M. Mason. *Freeway and Interchange Geometric Design Handbook*, Institute of Transportation Engineers, pp. 639; ISBN No: 0-935403-94-9. (December 2005). (Sr. Editor)

Mason, J. M., B. L. Smith. *Accommodation of Trucks on the Highway: Safety in Design*, American Society of Civil Engineers, pp. 192 (May 1988). (Co-editor)

Short Course Books:

Mason, J. M., *The Professional Traffic Operations Engineer Certification Program Refresher Course Manual*, 216 pp. (1999 & update 2007 as co-author). (Chapter Author: Operational Effects of Geometrics)

Mason, J. M., W. P. Kilareski, K. Fitzpatrick, R. E. Brydia, D. L. Seneca. "Local Road & Street Safety Improvement Program," 225 pp. (Participant's Notebook and Instructor's Notebook) (February 1989). (Co-Principal Author)

Blaschke, J. D., J. M. Mason, V. G. Stover, N. Straub. "AASHTO's A Policy on Geometric Design of Highways and Streets (The 'Green Book')," 300 pp. Minor updating and editing of earlier version prepared for Pennsylvania Department of Transportation T.V. Satellite Conference (January 1989). (Co-Principal Author)

Research Reports to Sponsor

Mason J. M., E.T. Donnell, D. W. Harwood, K. M. Bauer, J. M. Sada, M. T. Pietrucha, *Median Safety Study (Interstates and Expressways)*. PTI 2001-32 (I&II), Pennsylvania Department of Transportation, 91&55 pp. (June 2001). (Contributing Author)

Robinson, B. W., L. Rodegerdts, W. Scarborough, W. Kittelson, R. Troutbeck, W. Brilon, L. Bondizo, K. Courage, M. Kyte, J. Mason, A. Flannery, E. Myers, J. Bunker, G. Jacquemart, ROUNDABOUTS: An Informational Guide, Report No. FHWA-RD-00-067, Federal Highway Administration, Washington, DC. 268 pp. (June 2000). (Contributing Author)

Patten, M.L. and J. M. Mason, Technical Memorandum, Final Report on the Activities of Project Task 24: Strategic Plan for the Implementation of Intelligent Transportation Systems in Pennsylvania. PTI 9822, Pennsylvania Department of Transportation, 74 pp. (March 1998). (Contributing Author)

Mason, J. M. Functional Specifications for the Policy Review Module (PRM) of the Interactive Highway Safety Design Module (IHSDM). Consultant to the Federal Highway Administration via CH2M Hill, Herndon, VA (September 1997-March 1998).

Harwood, D. W., K. M. Bauer, J. M. Mason, W. A. Stimpson. Workshop on Development of the Interactive Highway Safety Design Model Accident Analysis Module. Final Report, Midwest Research Institute for Federal Highway Administration, Report No. FHWA-RD-96-075, 134 pp. (February 1997). (Contributing Author)

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 1995). (Co-Principal Author)