

PROFESSIONAL EXPERIENCE AND CAPABILITIES

JOHN C. GLENNON



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SYNOPSIS

Dr. Glennon's professional capabilities include traffic engineering, roadway design, traffic safety management, traffic crash reconstruction, railroad crossing safety, and human factors engineering. He has been principal investigator on research projects dealing with highway design criteria, highway speed regulations, roadside safety, high-accident location analysis, guardrail warrants, urban traffic safety programs, crash reconstruction, and construction zone safety.

Before starting his consulting practice, Dr. Glennon was with Midwest Research Institute where he had key responsibilities for the development, coordination, and technical quality of transportation research programs. He

also served as manager of MRI's Traffic Safety Center, where he aligned inter-disciplinary teams to address traffic safety problems in midwestern states. From these responsibilities, he has had broad personal contact with federal, state, and local agencies responsible for highway safety. Before joining MRI, Dr. Glennon was a research engineer with the Texas Transportation Institute from 1967 to 1972, and the California Division of Highways from 1964 to 1967.

Dr. Glennon has authored over 120 technical papers and reports, many of which have gained national and international recognition. He has achievement awards from the Transportation Research Board, Institute of Transportation Engineers, National Science Foundation, American Society of Civil Engineers, and Midwest Research Institute.

Dr. Glennon is a registered engineer in California, Texas, and Kansas, and is a member of the Institute of Transportation Engineers, Transportation Research Board, National Society of Professional Engineers (Retired), and National Association of Professional Accident Reconstruction Specialists. He has chaired several committees and sub-committees for these organizations. He received a B.S. degree in 1963 and a M.S. degree in 1964 in Civil Engineering from the University of Illinois and a Doctorate of Engineering in 1979 from the University of Kansas.

EDUCATION

- *B.S.*, Civil Engineering, University of Illinois, 1963
- *M.S.*, Civil Engineering, University of Illinois, 1964
- *D. Engr.*, University of Kansas, 1979

Masters work at the University of Illinois specialized in traffic engineering, including traffic operations, roadway design, and highway safety.

Doctoral work at Texas A&M University and the University of Kansas included additional coursework in traffic engineering, highway design, curriculum development, transportation economics, highway safety, systems engineering, operations research, and technology assessment. Dr. Glennon has continued his education through numerous conferences, seminars, workshops, and symposia covering highway safety, highway design, traffic engineering, and crash reconstruction.

EXPERIENCE

1977 to present

Transportation Consulting Engineer John C. Glennon, Chartered

Project topics include: (1) Critical analysis of crash reconstruction practices for a state police agency; (2) Effectiveness of roadway geometric design practices; (3) Safety requirements for low-volume rural roads; (4) Evaluation of roadside safety policies; (5) Diagnostic evaluation of traffic control device applications; (6) Safety evaluation of traffic controls in highway work zones; (7) Innovative safety methods to protect roadway maintenance workers; (8) Truck configuration and length related to roadway collisions; (9) Crash reconstruction, roadway defect evaluation, and expert testimony in over 1000 personal injury cases in AL, AK, AR, AZ, CA, CO, CT, DE, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NY, OH, OK, PA, SD, TN, TX, UT, VA, VT, WA, WI, and WY.

1972 to 1977

Manager, MRI Traffic Safety Center Midwest Research Institute

Staff and project supervision of six professionals and three technicians. Major project promotion and development responsibility for core group of 23 people. Directly responsible for developing \$1.5 million of projects.

Developed MRI Traffic Safety Center. Established contacts with state highway departments, state highway patrols, governor's highway safety representatives, state departments of education, and local communities in nine Midwestern states. Developed and edited Midwest Traffic Safety Journal. Developed and managed state and local safety projects, conferences, and workshops.

Given additional title of Manager, Design and Operation Program, and direct supervision of eight people in 1975. This resulted from project development, that increased group size from eight to 23 people.

Principal investigator or project leader on seven projects including: (1) Development of comprehensive technical guidelines for access control, FHWA, \$222,000; (2) Accident and speed studies in construction zones, FHWA, \$172,000; (3) Roadside safety programming on non-freeway facilities, FHWA, \$37,000; (4) Development of a

manual on high-accident location analysis, Missouri Highway Commission, \$34,000; (5) Development of a comprehensive traffic safety improvement program, Shawnee, Kansas, \$27,000; (6) Development and presentation of workshops on high-accident location analysis for small-city personnel, Missouri Highway Commission, \$22,000; and (7) Comparison of reflective materials for license plates, 3M Company, \$3,000.

Particularly significant are Projects 1 and 4 above. The technical guidelines for access control were distributed nationwide by FHWA to state and local jurisdictions, with suggestion that they be adopted as policy. The Missouri manual was reprinted in 10,000 copies by the FHWA Office of Highway Safety and also distributed nationwide.

Given additional title of Principal Transportation Engineer in January 1977, in recognition of outstanding professional stature. Only electee of several candidates for principal level in 1976-1977.

Other duties at MRI included serving on several high-level committees including: Engineering Division Operating Committee, Strategic Planning Committee, Space Allocation Committee, and Council of Principal Scientists.

1967 to 1972

Assistant Research Engineer Texas Transportation Institute Texas A&M University

Supervision of one full-time engineer, four graduate research assistants, and two undergraduate research aids. Principal investigator on UMTA study of priority treatment for rapid transit buses on controlled urban freeways. Established technical feasibility and developed design and operational guidelines. Project report served as base document for installing system on I-35W in Minneapolis.

Program coordinator on NCHRP Project 20-7, a multi-disciplinary program, with up to four simultaneous projects, in direct response to needs of the AASHTO Planning and Design Policies Committee. Served as task leader for Tasks 1, and 4. In Task 1, developed a probabilistic hazard evaluation procedure and cost-effectiveness methodology for determining roadside safety improvement needs and priorities. This methodology is now used as a national standard.

Principal investigator on multi-year Texas Highway Department research project that critically examined the validity of basic highway design standards.

Recommended new criteria for stopping sight distance, passing sight distance, truck climbing lanes, and horizontal curves.

Other responsibilities at TTI included: Teaching of graduate traffic engineering, highway design, and highway safety courses; teaching at the annual Traffic Engineering Short School; and serving as an independent technical editor to several other projects.

✦ 1966 to 1967

*Assistant State Transit Planning Coordinator
Headquarters Urban Planning Department
California Division of Highways*

Principally responsible for monitoring and providing liaison to all transit district meetings in northern California. Developed modal split model to account for small-city bus operations, conducted feasibility studies and reviewed network and zone descriptions for California's major urban transportation planning studies.

✦ 1964 to 1966

*Assistant Highway Engineer
Headquarters Traffic Department
California Division of Highways*

Underfilled associate position as project leader in Traffic Safety Research Group. Had project supervisory responsibility of four engineering aides and technicians. Conceived and researched an objective approach for guardrail placement - a criterion now used as a national standard.

Established data-processing system for correlating traffic crashes with roadway geometry and environmental variables. Developed coding system, supervised district-based data collection and collaborated with ADP staff to finalize inventory system of 26 items coded by 0.01 mile increments for 1,500 miles of freeways.

Participated in the planning and development of the California Minor Improvement Program, including extensive before/after crash comparisons for spot safety improvements. Developed program analysis procedures and authored report on safety lighting.

Other duties included reviewing district traffic reports, answering district correspondence on guardrail and median barrier placement, witnessing all full-scale crash tests, and preparing abstracts of all freeway fatal accidents.

✦ 1963 to 1964

*Research Assistant
University of Illinois*

Contributed to Illinois Vehicular Speed Regulation Research Program. Completed an exhaustive state-of-the-art synthesis and a nationwide survey on speed regulation.

PROFESSIONAL LICENSES

- ✦ Registered Civil Engineer, California No. 17760
- ✦ Registered Professional Engineer, Texas No. 28705
- ✦ Licensed Professional Engineer, Kansas No. 6976

HONORS AND AWARDS

- ✦ **Transportation Research Board**, 1990 *D. Grant Mickle Award*, for the best paper on highway traffic operations and maintenance.
- ✦ **Institute of Transportation Engineers**, Missouri Valley Section, 1988 *President's Award*, for Outstanding Contribution to Transportation Engineering.
- ✦ **Institute of Transportation Engineers**, Missouri Valley Section, 1978 *President's Award*, for Outstanding Contribution to Traffic Engineering.
- ✦ **Midwest Research Institute**, elected to *Council of Principal Scientists*, January 1977.
- ✦ **Transportation Research Board**, 1977 *D. Grant Mickle Award*, for the best paper on highway traffic operations and maintenance.
- ✦ **Institute of Traffic Engineers**, Honorable Mention for 1971 *Past President's Award*.
- ✦ **American Society of Civil Engineers**, Chicago Section, *Associate Membership Award*, for outstanding graduating students, 1963.
- ✦ **Chi Epsilon Honorary Society**, 1962-present.
- ✦ **National Science Foundation**, undergraduate research scholarship, 1962.

PROFESSIONAL ACTIVITIES

- Member, Editorial Board, **Accident Reconstruction Journal**, 1999- .
- Member, **National Association of Railroad Safety Consultants and Investigators**, 1994-2005.
- Member, Project Panel C15-14(2), **National Cooperative Highway Research Program**, "Median Intersection Design," 1992-1996.
- Member, Project Panel C15-14, **National Cooperative Highway Research Program**, "Intersection Sight Distance," 1991-1996.
- Chairman, **Transportation Research Board** Committee A2A02, Geometric Design, 1985-1991. Member 1969-1994.
- Chairman, Special Advisory Panel to recommend content of **Federal Highway Administration** Research Program Area 1S, Geometric Design, August-October 1985.
- Fellow, **Institute of Transportation Engineers**, 1962-present.
- Chairman, **Institute of Transportation Engineers**, Expert Witness Council, 1992. Board Director, 1990-1993, and Member, 1988-present.
- Member, **Institute of Transportation Engineers**, Transportation Safety Council, 1992-present.
- Member, Special Advisory Panel to provide input to **Federal Highway Administration** Project, "Geometric Design for Mini-Cars," 1985-1987.
- Member, Missouri Valley Section, **Institute of Transportation Engineers**, 1972-present.
- Member, **Transportation Research Board**, Group 3 Council, Highway Operations and Maintenance, 1991-1994.
- Member, Steering Committee for the Study of Geometric Design Standards for Highway Improvement, in response to mandate of **U.S. Congress**, 1983-1987.
- Member (Retired), **National Society of Professional Engineers**, 1987-present.
- Member, **National Association of Professional Accident Reconstruction Specialists**, 1988-2007.
- Member, **Transportation Research Board** Committee A4002, Tort Liability and Risk Management, 1991-1997.
- Member, **Transportation Research Board** Task Force on Torts 1986-1990.
- Member, **Institute of Transportation Engineers** Committee 4M-21, "Large Truck Accidents," 1984-1986.
- Member, Special Advisory Panel to review **Federal Highway Administration** Research Program Area 1J, Geometric Design, 1977.
- Member, Special Panel to develop highway barrier need indices accounting for highway shipments of hazardous cargo, **Federal Highway Administration**, 1977.
- Member, Special Advisory Panel to review **Federal Highway Administration** Research Program Area 1U, Safety Aspects of Increase Size and Weight of Heavy Vehicles, 1976.
- Member and Sub-committee Chairman, **Transportation Research Board** Committee A3E08, Operational Effects of Geometrics, 1972-1980.
- Member, **Transportation Research Board** Committee A3F04, Effectiveness of Operational Measures, 1970-1974.
- Member, **Transportation Research Board** Committee on Vehicle Characteristics, 1969-1971.
- Chairman, **Institute of Transportation Engineers**, Ad Hoc Committee to Review Standards for Urban Arterial Streets, 1974.
- Chairman, **Institute of Transportation Engineers** Committee 5C-F, "Criteria for Installation of Concrete Barrier Wall versus Guardrail," 1973-1974.
- Member, **Institute of Transportation Engineers** Committee 5Y-F, "The Desirability of Designs for Operating Speeds Above 70 mph," 1970-1971.
- Member, **Institute of Traffic Engineers** Committee 5P, "Safety Effects of Freeway Ramp Terminals with Restrictive Geometrics," 1967-1970.

SELECTED PRESENTATIONS

1. "Forensic Engineering Perspective for Defining Railroad-Highway Grade Crossing Hazard", **National Academy of Forensic Engineers**, Seminar, San Diego, California, January 2005.
2. "Roadway Defect Claims," **Association of American Trial Lawyers**, Annual Convention, Montreal, Canada, July 2001.
3. "Roadway Defects and Tort Liability", Seminar on Traffic Accident Reconstruction: Human, Vehicle, and Environmental Factors Before, During, and After the Collision, **Lawyers and Judges Publishing Company, Inc.**, Tucson, Arizona, November 1998, Washington, DC., August 2000.
4. "A Basic Primer on Motor-Vehicle Accident Reconstruction", **Kansas City Metropolitan Bar Association**, Kansas City, Missouri, April 1997.
5. "Highway Tort Claims", Course for Highway and Public Works Engineers on Managing Roadway Liability, **University of Wisconsin**, Madison, Wisconsin, April 1996.
6. "Major Areas of Highway Defect Tort Claims," **AIRIL 95, Inaugural International Conference on Accident Investigation and the Law**, Gold Coast, Australia, October 1995.
7. "Major Areas of Highway Defect Tort Claims," **Transportation Research Board**, Washington, DC, January 1995.
8. "Highway Defects - One Engineer's Perspective," **Louisiana Trial Lawyers Association**, New Orleans, January 1994.
9. "Classic Errors Committed in Motor-Vehicle Accident Reconstruction," **National Academy of Forensic Engineers**, Kona, Hawaii, January 1993.
10. "Was the Train Speeding?" **National Academy of Forensic Engineers**, Oak Brook, Illinois, July 1992.
11. "A Primer on Highway Sight Distance," **International Association of Accident Reconstruction Specialists**, Kansas City, Missouri, July 1991.
12. "Geometric Design Workshop," **Institute of Transportation Engineers**, Traffic Engineering Academy, Northwestern University, Evanston, Illinois, November 1990, October 1991.
13. "Work Zone Safety," Annual Meeting, **Institute of Transportation Engineers**, Orlando, Florida, August 1990.
14. "A New and Improved Model of Passing Sight Distance on Two-Lane Highways," Workshop on The Effect of Vehicle Length on Traffic, **Roads and Transportation Association of Canada**, Toronto, January 1990.
15. "Highway Sight Distance Design Issues," Conference Session Moderator, **Transportation Research Board**, Washington, DC, January 1989.
16. "Horizontal Sight Distance Considerations in Freeway and Interchange Reconstruction," **Transportation Research Board**, Washington D.C., January 1989.
17. "The Expert Witness," Paralegal Seminar, **Johnson County Community College**, Overland Park, Kansas, November 1988.
18. "Using Research Findings to Upgrade Design Standards," Session Moderator, Fall Conference on "Beyond the Greenbook," **Transportation Research Board**, Austin, Texas, November 1987.
19. "The Powers and Pitfalls of Accident Reconstruction," **Kansas Trial Lawyers Association**, Topeka, May 1987.
20. "Traffic Control for Low-Volume Rural Roads," **Missouri Annual Traffic and Highway Engineering Conference**, Columbia, April 1987.
21. "Use and Modification of HVOSM for Highway Geometric Studies," **Transportation Research Board**, Washington D.C., January 1986.
22. "Geometric Design and a Review of the AASHTO Greenbook," Conference Session Moderator, **Transportation Research Board**, Washington D.C., January 1986.
23. "Beyond the Greenbook," Conference Session Speaker, **Transportation Research Board**, Washington D.C., January 1986.

- 24. "Symposium on Geometric Design for Large Trucks," Program Committee and Session Moderator, **Transportation Research Board**, Denver, Colorado, August 1985.
- 25. "Traffic Volume - Design Standard Relationship," **American Society of Civil Engineers**, San Francisco, California, October 1984.
- 26. "Safety Requirements for Low-Volume Rural Roads," **American Society of Civil Engineers**, Atlanta, Georgia, October 1979.
- 27. "Safety Requirements for Low-Volume Roads," **Illinois Annual Traffic Engineering Conference**, Urbana, October 1978.
- 28. "Pavement Marking Removal," Annual Meeting, Missouri Valley Section, **Institute of Transportation Engineers**, Topeka, Kansas, October 1978.
- 29. "Special Problems in Safety Evaluation," **FCP Research Review Conference**, College Park, Maryland, October 1978.
- 30. "Highway Safety Requirements for Low-Volume Rural Roads," **American Association of State Highway and Transportation Officials**, Atlantic City, May 1978, Oklahoma City, June 1978, and Sacramento, August 1978.
- 31. "Highway Safety Requirements for Low-Volume Rural Roads," **Kansas Annual Highway and Transportation Engineering Conference**, Manhattan, March 1978.
- 32. "The Functional Integrity of City Streets," Missouri Valley Section, **Institute of Transportation Engineers**, Kansas City, Missouri, November 1977.
- 33. "Accident and Speed Studies in Construction Zones," Annual Meeting, **American Association of State Highway and Transportation Officials**, Atlantic City, New Jersey, November 1977.
- 34. "Workshops on High-Accident Location Analysis," Program Director, **Missouri State Highway Commission**, St. Louis and Kansas City, November-December 1976.
- 35. "Research Needs in Highway Geometric Design," **FCP Technical Review Conference**, Charlottesville, Virginia, October 1976.
- 36. "Accident Information and Cost-Effectiveness Analysis," **FCP Technical Review Conference**, Charlottesville, Virginia, October 1976.
- 37. "Workshop on Forging Roadside Design," Program Committee and Leader for Session 3 - Evaluation of Safety Programs, **Transportation Research Board**, Denver, Colorado, August 1976.
- 38. "Identification, Analysis, and Correction of High-Accident Locations," **Institute of Transportation Engineers**, Springfield, Missouri, June 1976.
- 39. "Identification, Analysis, and Correction of High-Accident Locations in Small Cities," **Kansas Annual Highway and Transportation Engineering Conference**, Manhattan, March 1976.
- 40. "Indirect Measures of Traffic Safety," Program Coordinator, Moderator, and Principal Speaker, **Annual Workshop on Human Factors in Transportation**, Washington, D.C., January 1976.
- 41. "Control of Access and Egress on Unlimited Access Highways," **FCP Research and Development Conference**, Minneapolis, Minnesota, September 1975.
- 42. "Access Control on Arterial Highways," **Kansas Association for Uniform Traffic Control**, Overland Park, June 1975.
- 43. "Priorities for Highway Safety," **Missouri Annual Traffic and Highway Engineering Conference**, Columbia, May 1975.
- 44. "Geometric and Operational Considerations for Multi-Modal Use of Transportation Rights-of-Way," Conference Session Coordinator and Moderator, **Transportation Research Board**, Washington, D.C., January 1975.
- 45. "Techniques to Reduce Conflicts at Commercial Driveways," **American Society of Civil Engineers**, Kansas City, Missouri, October 1974.
- 46. "Cost-Effectiveness," Region 3 Meeting, Subcommittee on Roadway Design, **American Association of State Highway and Transportation Officials**, Springfield, Illinois, June 1974.

47. "Local Highway Safety Management Conference," Coordinator and Principal Speaker, **Highway Users Federation for Safety and Mobility**, Kansas City, Missouri, October 1973.

48. "Priority Approach for Roadside Safety Improvement," **American Society of Civil Engineers**, San Francisco, California, April 1973.

JOURNAL ARTICLES AND CONTRIBUTIONS TO BOOKS

[Many of Dr. Glennon's publications are available at www.criterionpress.com/publications.cfm]

1. "A Forensic Engineering Perspective for Defining Railroad-Highway Grade Crossing Hazard," *Journal of the National Academy of Forensic Engineers*, June 2005.

2. "Railroad-Highway Grade Crossing Safety," Chapter 11, *Train Accident Reconstruction and FELA and Railroad Litigation*, Lawyers and Judges Publishing Co., 1995, 2005.

3. *Roadway Safety and Tort Liability*, Lawyers and Judges Publishing Company, 2004.

4. "Roadway Defect Claims," *Proceedings*, Association of Trial Lawyers of America, July 2001.

5. "Geometric Design – Sight Distance," Chapter 10, *The Traffic Safety Toolbox*, Institute of Transportation Engineers, 1999.

6. "Rail-Highway Grade Crossings," *Accident Reconstruction Journal*, July-August, 1997.

7. *Roadway Defects and Tort Liability*, Lawyers and Judges Publishing Company, 1996.

8. "Major Areas of Highway Defect Tort Claims", *Proceedings, AIRIL95, Inaugural International Conference on Accident Investigation and the Law*, Queensland University of Technology, Brisbane, Australia, 1995.

9. "Classic Errors in Accident Reconstruction: Real Experts vs. Fakes, Fools, and Frauds," *Journal of the National Academy of Forensic Engineers*, 1993.

10. "Low-Cost Safety Improvements at Rail-Highway Crossings," *Proceedings of the 1992 International Symposium on Railroad-Highway Grade Crossing Research and Safety*, 1992.

11. "Estimating Train Speed From Braking Distance," *Journal of the National Academy of Forensic Engineers*, December, 1992.

12. "The MUTCD at Court," *1991 Proceedings*, Institute of Transportation Engineers.

13. "Energy-Momentum Method for Reconstructing Motor-Vehicle Collisions," *Accident Reconstruction Journal*, March-April, 1991.

14. "Traffic Controls for Street and Highway Construction, Maintenance, Utility and Emergency Operations," Part VI, *Manual on Uniform Traffic Control Devices, Draft*, 1990.

15. "Highway Sight Distance Design Issues," *Transportation Research Record 1208*, 1989.

16. "Sight Distance Requirements for Trucks at Railroad Highway Grade Crossings," *Transportation Research Record 1208*, 1989.

17. "Passing Sight Distance for Passenger Cars and Trucks," *Transportation Research Record 1208*, 1989.

18. "A New and Improved Model of Passing Sight Distance on Two-Lane Highways," *MOVITE Journal*, November 1988.

19. "A New and Improved Model of Passing Sight Distance on Two-Lane Highways," *Transportation Research Record 1195*, 1988.

20. "BLAQ BOXX Accident Reconstruction," *Computer Program and Users' Handbook*, Criterion Press Inc., 1987.

21. "Effect of Pavement/Shoulder Drop-Offs on Highway Safety," Transportation Research Board, *State of the Art Report No. 6*, 1987.

22. "Effect of Alignment on Highway Safety," Transportation Research Board, *State of the Art Report No. 6*, 1987.

23. "Effect of Sight Distance on Highway Safety," Transportation Research Board, *State of the Art Report No. 6*, 1987.

24. "Accident Effects of Centerline Markings on Low-Volume Rural Roads," *Transportation Research Record 1027*, 1985.
25. "Accident Analyses for Highway Curves," *Transportation Research Record 923*, 1983.
26. "A Functional Analysis of Stopping Sight Distance Requirements," *Transportation Research Record 923*, 1983.
27. "Cost-Effectiveness of Improvements to Stopping Sight Distance Problems," *Transportation Research Record 923*, 1983.
28. "Prediction of the Sensitivity of Vehicle Dynamics to Highway Curve Geometrics Using Computer Simulations," *Transportation Research Record 923*, 1983.
29. "Effectiveness of Clear Recovery Zones," *National Cooperative Highway Research Program Report 247*, 1983.
30. "Design in Rural Road Safety - But Balance Accident Reduction with the Cost," *American City and County*, January 1980.
31. "Design and Traffic Control Guidelines for Low-Volume Rural Roads," *National Cooperative Highway Research Program Report 214*, 1979.
32. "Highway Safety Requirements for Low-Volume Rural Roads," *Transportation Research Record No. 702*, 1979.
33. "Research Methods for Improving Roadside Safety Analysis," *Transportation Research Record No. 737*, 1979.
34. "Traffic Safety in Highway Construction Zones," *Rural and Urban Roads*, November-December 1978.
35. "Economic Evaluation of Ice and Frost on Bridge Decks," *National Cooperative Highway Research Program Report 182*, 1978.
36. "Highway Design Consistency and Systematic Design Related to Highway Safety," *Transportation Research Record No. 681*, 1978.
37. "Selection of Median Treatments for Existing Arterial Highways," *Transportation Research Record No. 681*, 1978.
38. "Status of Traffic Safety in Highway Construction Zones," *Transportation Research Record No. 693*, 1978. "Accident Analysis of Highway Construction Zones," *Transportation Research Record No. 693*, 1978.
39. "Critique of the Traffic Conflicts Technique," *Transportation Research Record No. 630*, 1977.
40. "Framework for the Design and Operation of Passing Zones on Two-Lane Highways," *Transportation Research Record No. 601*, 1977.
41. "Priorities for Highway Safety," *Better Roads*, September 1976.
42. "Access Control on Arterial Highways," *ASCE Transportation Engineering Journal*, February 1976.
43. "Priorities for Highway Safety," *Midwest Research Institute Quarterly*, Spring 1975.
44. "Roadside Safety Improvement Programs on Freeways A Cost-Effectiveness Priority Approach," *National Co-operative Highway Research Program Report No. 148*, 1974.
45. "Positive Protection for Railroad-Highway Grade Crossings," *Midwest Traffic Safety*, Midwest Research Institute, Fall 1973.
46. "Fixed Illumination for Pedestrian Protection," *Midwest Traffic Safety*, Midwest Research Institute, Spring 1973.
47. "Detecting Unsafe Driver Decisions," *Midwest Traffic Safety*, Midwest Research Institute, Winter 1972-1973.
48. "Take a Few Minutes for Safety," *Midwest Traffic Safety*, Midwest Research Institute, Winter 1972-1973.
49. "Highway Curve Design for Safe Vehicle Operations," *Highway Research Record No. 390*, 1972.
50. "The Frictional Requirements of Passing Vehicles," *Highway Research Record No. 396*, 1972.
51. "Critical Review of Climbing Lane Design Practices," *Highway Research Record No. 371*, 1971.
52. "An Evaluation of Design Criteria for Operating Trucks Safely on Grades," *Highway Research Record No. 312*, 1970.

53. "A Safety Evaluation of Current Design Criteria for Stopping Sight Distance," *Highway Research Record No. 312*, 1970.

54. "Are Operating Speeds Above 70 mph Desirable?," *Texas Transportation Researcher*, October 1970.

55. "A System for Bus Rapid Transit on Urban Freeways," *Kosoko Doro Chosakai*, Japan, October 1970.

56. "Balanced Transportation Through Efficient Use of Existing Facilities," *Traffic Engineering*, August 1970.

57. "Evaluation of Passing Sight Distance Design," *Texas Transportation Researcher*, July 1970.

58. "Design of Highway Grades to Safely Handle Slow-Moving Vehicles," *Texas Transportation Researcher*, July 1970.

59. "Roadside Safety Design," *Texas Transportation Institute*, contributing author, June 1970.

60. "A System for Bus Rapid Transit on Urban Freeways," *Traffic Quarterly*, October 1969.

61. "Effective Use of Bus Rapid Transit on Urban Freeways," *Texas Transportation Researcher*, April 1969.

62. "Evaluation of Minor Improvements," *Highway Research Record No. 257*, 1968.

63. "Objective Criteria for Guardrail Installation," *Highway Research Record No. 174*, 1967.

4. "Energy-Momentum Method for Reconstructing Oblique Motor-Vehicle Collisions with Unknown Impact Angle," Criterion Press, August 1990.

5. "Effect of Pavement/Shoulder Drop-Offs on Highway Safety: A Synthesis of Prior Research," Transportation Research Board, April 1985.

6. "Effect of Alinement on Highway Safety: A Synthesis of Prior Research," Transportation Research Board, April 1985.

7. "Effect of Sight Distance on Highway Safety: A Synthesis of Prior Research," Transportation Research Board, April 1985.

8. "Highway Signing Study for Dulles International Airport," Federal Aviation Administration, December 1984.

9. "Need for Center Pavement Markings on Low-Volume Rural Roads," National Cooperative Highway Research Program, March 1984.

10. "Work Zone Design Considerations for Truck Operations and Pavement/Shoulder Drop-Offs," Federal Highway Administration, February 1984.

11. "Safety and Operational Considerations for Design of Rural Highway Curves," Federal Highway Administration, August 1983.

12. "HVOSM Studies of Highway Centerline Crown," Federal Highway Administration, August 1983.

13. "Cost-Effectiveness of Countermeasures for Utility Pole Accidents," Federal Highway Administration, January 1983.

14. "Identification, Quantification and Structuring of Two-Lane Rural Highway Safety Problems and Solutions," Federal Highway Administration, October 1981.

15. "Evaluation of Stopping Sight Distance Criteria," Federal Highway Administration, July 1981.

16. "HVOSM Studies of Cross-Slope Breaks on Highway Curves," Federal Highway Administration, July 1981.

17. "Follow-Up HVOSM Studies of Highway Curb Impacts," Federal Highway Administration, March 1981.

SIGNIFICANT REPORTS

[Many of Dr. Glennon's publications are available at www.criterionpress.com/publications.cfm]

1. "Critical Analysis of Massachusetts State Police Accident Reconstruction Practices," Massachusetts Executive Office of Public Safety, February 1995.

2. "Energy-Momentum Method for Reconstructing Rear-End Motor-Vehicle Collisions," Criterion Press, August 1990.

3. "Energy-Momentum Method for Reconstructing Head-On Motor-Vehicle Collisions," Criterion Press, August 1990.

- 18. "Procedures and Guidelines for Rehabilitation of Existing Freeway-Arterial Highway Interchanges," Federal Highway Administration, June 1980.
- 19. "Guidelines for the Application of Arrowboards in Work Zones," Federal Highway Administration, February 1979.
- 20. "Cost-Effectiveness and Safety of Alternative Roadway Delineation Treatments for Rural Two-Lane Highways," Federal Highway Administration, April 1978.
- 21. "Accident and Speed Studies in Construction Zones," Federal Highway Administration, April 1977.
- 22. "Comparison of Reflective Materials for License Plates," 3M Company, March 1976.
- 23. "Evaluation of the Traffic Conflicts Technique," Federal Highway Administration, December 1975.
- 24. "Traffic Safety Study - Shawnee, Kansas," City of Shawnee, December 1975.
- 25. "Manual on Identification, Analysis, and Correction of High-Accident Locations," Missouri State Highway Commission, November 1975.
- 26. "Technical Guidelines for the Control of Direct Access to Arterial Highways," Federal Highway Administration, Users' Manual, August 1975.
- 27. "Evaluation of Techniques for the Control of Direct Access to Arterial Highways," Federal Highway Administration, August 1975.
- 28. "Effectiveness of Roadside Safety Improvements: A Methodology for Determining the Safety Effectiveness of Improvements on All Classes of Highways," Federal Highway Administration, November 1974.
- 29. "A Determination Framework for Wet Weather Speed Limits," Texas Transportation Institute, Research Report 134-8F, August 1971.
- 30. "Frictional Requirements for High-Speed Passing Maneuvers," Texas Transportation Institute, Research Report 134-7, July 1971.
- 31. "Passing Performance Measurements Related to Sight Distance Design," Texas Transportation Institute, Research Report 134-6, June 1971.
- 32. "Side Friction Factors Used in the Design of Highway Curves," Transportation Research Board, NCHRP Project 20-7, June 1971.
- 33. "The Relationship of Vehicle Paths to Highway Curve Design," Texas Transportation Institute, Research Report 134-5, May 1971.
- 34. "The Desirability of Highway Designs for Operating Speeds Above 70 mph," 40th Annual Meeting, Institute of Traffic Engineers, September 1970.
- 35. "State-of-the-Art Related to Safety Criteria for Highway Curve Design," Texas Transportation Institute, Research Report 134-4, November 1969.
- 36. "Evaluation of Safety Criteria Employed in Highway Curve Design," Texas Transportation Institute, Research Report 628-1, September 1969.
- 37. "The Passing Maneuver as it Relates to Passing Sight Distance Standards," Texas Transportation Institute, Research Report 134-1, August 1969.
- 38. "Re-Evaluation of Truck-Climbing Characteristics for Use in Geometric Design," Texas Transportation Institute, Research Report 134-2, August 1969.
- 39. "Evaluation of Stopping Sight Distance Design Criteria," Texas Transportation Institute, Research Report 134-3, August 1969.
- 40. "Bus Rapid Transit on Urban Freeways Using Traffic Surveillance and Control," Urban Mass Transit Administration, January 1969.
- 41. "A System to Facilitate Bus Rapid Transit on Urban Freeways," Urban Mass Transportation Administration, December 1968.
- 42. "Evaluation of Minor Improvements: Part 2. Safety Lighting," California Division of Highways, August 1967.
- 43. "The Economic Feasibility of a Toll Tunnel for Echo Summit," California Division of Highways, May 1967.
- 44. "Modal Split Study for Bakersfield," California Division of Highways, March 1967.
- 45. "Objective Criteria for Guardrail Installation," California Division of Highways, July 1966.
- 46. "Roadway Geometry Inventory," California Division of Highways, July 1965.

47. "Current Practices Employed in Establishing, Administrating, and Enforcing Rural Statewide Speed Limits," University of Illinois, May 1964.

48. "The Status of Traffic Accident Statistics in an Illinois County," National Science Foundation Research Program, University of Illinois, January 1963.

INTERNET POSTED ARTICLES

1. "After All These Years Blunt-End Guardrails are Still Spearheading Cars on U.S. Roads", January 2012.

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2. "Roadway Safety Principles and Practices in Temporary Traffic Control Zones", September 2011.

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3. "Roadside Clear Zones on Roadway Curves / Can We See Clearly Now?", January 2007.

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4. "Calculating Critical Speed - A Motor Vehicle Crash Reconstruction Method Fraught With Error", August 2006.

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6. "The Safety of Roadway Features", April 2005.

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9. "Crash Investigation and Reconstruction References", January 2004.

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