

RUDOLF G. MORTIMER, PhD, CHFP

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EDUCATION

B.A. Psychology, 1959

M.A. Industrial/Experimental Psychology, 1961

Ph.D. Industrial/Experimental Psychology, 1963

New York University

New York University

Purdue University

EMPLOYMENT

New York University: Assistant Research Scientist 1958–1961

Purdue University: Research Fellow 1962–1963

General Motors Research Laboratories Engineering Mechanics Department: Senior Research Psychologist 1963–1966

Conductron Corporation: Engineering Psychologist 1966–1967

University of Michigan Highway Safety Research Institute: Head, Human Factors Department 1967–1975

University of Illinois Department of Community Health: Professor of Safety & Accident Prevention 1975–2000

Consultant 1967–present

FIELDS OF MAJOR INTEREST

Automotive lighting, vision, driver-vehicle handling performance, human engineering designs, simulation, effects of alcohol on performance, human-machine system investigations, agricultural equipment, train-highway crossing safety, aviation safety, accident data analyses, human factors engineering product evaluation.

RESEARCH

Dr. Mortimer has carried out basic research in human reaction time, the role of augmenting sensory feedback in the learning of perceptual-motor skills, and on functional aspects of vision at low illumination levels. This was extended by simulation studies of the effects of headlamp glare in night driving and by controlled field studies using actual vehicles. The latter effort led to

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experimental and computer simulation techniques applicable to the design of headlamp beams. He introduced new techniques to enable the study of automotive signaling systems. He has done other work in motor vehicle safety concerned with ride quality, instrument displays and controls, automobile and motorcycle braking systems, and rear and forward visibility. He has conducted studies on pedestrian safety, bicycle handling, snowmobile design, the effects of alcohol on vehicle control skills, developed a test that has been used extensively throughout the U.S. for the identification of problem-drinkers, and studied motivational factors affecting the use of seat belts by drivers. He has conducted accident data analyses concerning vehicle lighting, older drivers and aviation. He has directed a program for the training and education of motorcycle riders in the State of Illinois. He has been responsible for human factors research in radar image target detection. He has presented or published over two hundred and fifty papers, technical reports, chapters in books or journal articles. He has directed numerous research contracts and grants from private, state and federal agencies.

He is certified as a multi-engine aircraft pilot, with instrument and commercial ratings.

PROFESSIONAL SOCIETIES

Human Factors & Ergonomics Society
Association for the Advancement of Automotive Medicine
Society of Automotive Engineers
Association of Aviation Psychologists
National Association of Railroad Safety Consultants and Investigators

OTHER

President, Southeastern Michigan Human Factors Society, 1974-75

Editorial Board (Past Member), Human Factors, The Journal of the Human Factors & Ergonomics Society.

Consulting Editor: Human Factors, The Journal of the Human Factors & Ergonomics Society; Journal of Applied Psychology, American Psychological Association; Journal of Studies on Alcohol; Perceptual & Motor Skills; Journal of Consumer Affairs.

Board of Directors, Association for the Advancement of Automotive Medicine, 1979-1981.

A.R. Lauer Traffic Safety Award of the Human Factors Society, 1979.

Chair, East Central Illinois Section, American Society of Safety Engineers, 1982-1983.

Fellow of The Human Factors Society, 1989.

Certified Human Factors Professional (CHFP), Board of Certification in Professional Ergonomics, Inc., 1993.

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PAPERS, REPORTS, PUBLICATIONS

The Learning and Retention of a Rate of Rotary Movement: Implications for Training. M.A. Thesis, New York University, 1961.

Psychological Study of Motor Skills: Phase II. U.S. Naval Training Devices Center, Tech. Rep. 558-2, 1961 (with L. Karlin).

Effects of Visual and Verbal Cues on Learning a Motor Skill. J.Exp. Psychol., 64 608-614, 1962 (with L. Karlin).

The Effect of Verbal, Visual and Auditory Augmenting Cues on Learning a Complex Motor Skill. J. Exp. Psychol., 65, 75-79, 1963 (with L. Karlin).

The Effect of Glare in Simulated Night Driving. Ph.D. Thesis, Purdue University, 1963.

Form Discrimination as a Function of Glare and Illumination. Annual Mtg., Midwestern Psychological Association, 1963.

Effect of Low Blood-Alcohol Concentrations in Simulated Day and Night Driving. Perceptual & Motor Skills, 17, 399-408, 1963.

A Device for the Measuring of Tracking Performances. Amer. J. Psychol., 57, 123-126, 1964.

The Effect of Glare in Simulated Night Driving. Annual Mtg., Highway Research Board, 1964; and Highway Research Record, No.70, 57-62, 1965.

The Detectability of Automobile Front Turn Signals as a Function of Color, Position, Viewing Distance, and Ambient Illumination. Traffic Safety Research Review, 10, No. 3, 83-88, 1966.

Intervehicular Communication. Meeting of American Association of Motor Vehicle Administrators, Detroit, 1966.

Intervehicular Communication. Meeting of Society of Automotive Engineers, Detroit, May 8, 1967.

Psychological Considerations in the Design of Automotive Signaling Systems. Proceedings, 11th Annual Meeting, American Association for Automotive Med., Philadelphia, October 1967.

Basic Vehicle Handling Properties: Phase I. Final Report on Contract FH-11-6528, National Highway Safety Bureau, U.S. Department of Transportation, Highway Safety Research Institute, University of Michigan, 1967 (with L. Segel).

Driving with a CRT Display. Perceptual and Motor Skills, 25, 899-900, 1967.

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Psychological Considerations in the Design of an Automotive Rear Lighting System. Traffic Safety Research Review, 12, No. 1, March 1968.

Dynamic Evaluation of Automobile Rear Lighting Configurations, 48th Annual Mtg., Highway Research Board, Washington, D.C. January 1969, and Highway Research Record No. 275, 12-22, 1969.

Effects of Roadway Markings on Vehicles Stopping in Pedestrian Crosswalks. Highway Safety Research Institute, University of Michigan, Report HuF-2, 1969.

Research in Automotive Rear Lighting and Signaling Systems. General Motors Corporation, Engineering Publication 3303, March 1969.

Requirements for Automotive Exterior Lighting. Proceedings, Annual Mtg., NAS-NRC Committee on Vision, Visual Factors in Transportation Systems, Washington, D.C., May 1969.

Toward an Improved Automobile Rear Lighting System. Proceedings, IEEE ERS, International Man-Machine Systems Symposium, Cambridge, England, September 1969.

Technical Committees Examine Plane and Curved Rear View Mirrors. Society of Automotive Engineers Journal, 48-49, November 1969.

A Literature Review and Bibliography of Research and Practice in Pedestrian Safety. Highway Safety Research Institute, Report HuF-3, December 1969 (with Linda Shapiro).

Experimental Investigation of the Effects of Roadway Markings on Vehicles Stopping in Pedestrian Crosswalks. Highway Safety Research Institute, University of Michigan, Report HuF-4, December 1969.

The HSRI Eye Mark Recorder: Development and Potential Application. Presented at Institute of Traffic Engineers, Michigan Section, January 1970.

Automobile Rear Lighting and Signaling Research. Final Report, Contract FH-11-6936, U.S. Department of Transportation, Highway Safety Research Institute, University of Michigan, Report HuF-5, 1970.

Psychological Research in Automobile Rear Lighting. Proceedings, SAE-FISITA International Automobile Safety Conference, Detroit and Brussels, May/June, 1970.

Driver Braking Performance as a Function of Pedal-Force and Pedal-Displacement Levels. Proceedings, SAE-FISITA International Automobile Safety Conference, Detroit and Brussels, May/June, 1970 (with L. Segel).

Brake Force Requirements Study: Driver-Vehicle Braking Performance as a Function of Brake System Design Variables. Final Report Contract FH-11-6952, U.S. Department of Transportation, Highway Safety Research Institute, University of Michigan, Report HuF-6, 1970.

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A Review of the Labor Market, Manpower Characteristics and Training of Motor Vehicle Repair Personnel. Final Report, Highway Safety Research Institute, University of Michigan, Report HuF-7, 1970 (with R. McCutcheon and H. Schick).

Ergonomic Study of Snowmobiles, Highway Safety Research Institute, Report HuF-8, June 30, 1970 (with S. Sturgis, R.W. McCutcheon and C. Jorgeson).

Rear Lighting Systems Evaluated with Empirical Driver Performance Data in a Car-Following Model. Annual Mtg., Operations Research Society of America, Detroit, October 1970.

Development of Court Procedures for Identifying Problem Drinkers: Phase I. Report #71-119, HuF-9 on Contract FH-11-7615, National Highway Traffic Safety Administration, Highway Safety Research Institute, University of Michigan, 1971.

Car and Truck Rear Lighting and Signaling: Application of Research Findings. Proceedings, International Symposium on Psychological Aspects of Driver Behavior, Noordwijkerhout, Netherlands, August 1971.

Court Procedures for Identifying Problem Drinkers. Volume 1: Manual. Report on Contract FH-11-7615, National Highway Traffic Safety Administration, Highway Safety Research Institute, University of Michigan Report HuF-10a, June, 1971 (with M.W. Kerlan, B. Mudge and L.D. Filkins).

Court Procedures for Identifying Problem Drinkers. Volume 2: Supplementary Readings. Report on Contract FH-11-7615, National Highway Traffic Safety Administration, Highway Safety Research Institute, University of Michigan, Report HuF-10b, June 1971 (with B. Mudge, M.W. Kerlan, D.V. Post, and L.D. Filkins).

Court Procedures for Identifying Problem Drinkers. Volume 3: Scoring Key. Report on Contract FH-11-7615, National Highway Traffic Safety Administration, Highway Safety Research Institute, University of Michigan, Report HuF-10c, June 1971 (with J.S. Lower and L.D. Filkins).

Subjective Evaluation of the Front-Mounted Braking Signal. Highway Safety Research Institute, University of Michigan, Tech. Memo: HuF-TM-1, 1971 (with D.V. Post).

Some Brakes are Too Sensitive According to Performance Tests. Automotive Engineering, 79, No. 5, 31-35, 1971.

Analysis of Collision Involving Rear Vision. HIT-LAB Report, Highway Safety Research Institute, University of Michigan, 4-5, March, 1971.

The Effects of Convex Exterior Mirrors on Lane-Changing and Passing Performance of Drivers. Society of Automotive Engineers, Report 710543, 1971.

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Development of Court Procedures for Identifying Problem Drinkers: Final Report Contract FH-11-7615, NHTSA, U.S. Department of Transportation, University of Michigan, Highway Safety Research Institute, Report HuF-11, 1971.

Psychological Research in Automobile Rear Lighting. Society of Automotive Engineers, Report 700388, 1971.

The Value of an Accelerator Release Signal for the Automobile Rear Lighting System. Human Factors, 13 (5), 481-486, 1971.

Hard Braking is More Common Than You Think. Automotive Engineering, 79, No. 8, 32, 1971.

Identification of Problem Drinkers Among Convicted Drivers. Annual Mtg., North American Association of Alcoholism Programs, Hartford, Connecticut, Sept. 1971.

Development of a Questionnaire to Identify the Problem Drinking Driver. Proceedings, 14th Annual (1970) Meeting American Association for Automotive Medicine, Ann Arbor, Michigan, 1971.

Exploring Some Common Ground Relative to Alcohol Abuse. Joint Conference on Alcohol Abuse and Alcoholism, University of Maryland, Md., Feb. 1972 (with L. Filkins).

Weber's Law and Rear-End Collisions. Annual Mtg., Michigan Academy Arts, Science, and Letters, Lansing, Michigan, 1972, and Michigan Academician, V. No. 1, 99-106, 1972.

Effects of Practice and Alcohol on Selected Skills: Implications for an Automobile Alcohol Ignition Interlock. Annual Mtg., Midwestern Psychological Association, Cleveland, Ohio, 1972 (with S. Sturgis) and, Perceptual and Motor Skills, 37, 267-274, 1973.

Human Factors in Vehicle Design. In, Human Factors in Highway Traffic Safety Research, (T.W. Forbes, ed.), New York, Wiley, 1972, pp. 191-223.

Identifying a Major Hazard on the Highways—The Problem Drinking Driver. Police, 16, No. 8, 17-24, 1972.

Psychological Studies in Automobile Rear Lighting and Signaling. Proceedings, Annual Meeting, American Psychological Association, Honolulu, September 1972.

Motor Vehicle Safety. Symposium on Consumer Issues, paper presented at the Annual Mtg., American Psychological Association, Honolulu, September 1972.

Eye Fixations of Drivers as Affected by Highway and Traffic Characteristics and Moderate Doses of Alcohol. Proceedings, Annual Meeting, Human Factors Society, Los Angeles, October 1972.

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Evaluation of Rear-End Collision Data for Determining Vehicle Rear-Lighting and Signaling Priorities. Hit Lab Reports, Highway Safety Research Institute, University of Michigan, 3, No. 4, 1-3, December 1972.

The HSRI Part-Task Driving Simulator for Research in Vehicle Rear Lighting and Related Studies. Contract UM-7101-C128 Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-72-12, 1972 (with J. Campbell).

Discussion of "Experimental Measures of Perceptual Thresholds in Car-Following", by Evans, L. and Rothery, R., Annual Mtg., Highway Research Board, Washington, D.C., January 1973.

Some Factors Limiting Driver-Vehicle Performance. Society of Automotive Engineers, Report No. 730017, January 1973.

Some Aspects of Headlamp Aim Affecting the Development of an Improved Headlighting System. Annual Mtg., American Association of Motor Vehicle Administrators, Committee on Engineering and Vehicle Inspection, Detroit, April 11, 1973.

The Effects of Bicycle Handlebar Configuration on Maneuverability. Annual Mtg., Midwestern Psychological Association, Chicago, 1973.

Effects on Visibility and Discomfort Glare Due to Headlamp Misaim. Invited paper, Highway Research Board, Visibility Committee, Washington, D.C., July 16-17, 1973.

Investigation of Some Factors Affecting the Aim of Headlamps. Contract UM-7204-C128, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-73-13, 1973 (with P. Olson).

Computer Simulation Evaluation of Visibility Distances Provided by Three Headlamp Beams (C, D, E). Contract 361380, Ford Motor Co., University of Michigan, Highway Safety Research Institute, Report Nos. UM-HSRI-HF-TM-73-3, and 73-4, 1973.

Investigation of Switching Modes for a Three Beam Headlamp System. Contract UM-7204-C128, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-73-16, 1973.

Development and Validation of a Simulator for Research in Automobile Rear Lighting. Paper presented at the Annual Mtg., American Psychological Association, Montreal, August 1973.

Passenger Car and Truck Signaling and Marking Research: I. Regulations, Intensity Requirements and Color Filter Characteristics. Contract UM-7101-C128, Motor Vehicle Manufacturers Association, Inc., University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-73-18, March 1973.

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Computer Simulation to Predict Night Driving Visibility as a Function of Headlamp Beams. Proceedings, International Drivers' Behavior Research Association, Conference on Driver Behavior, Zurich, October 1973.

Discussion of "Monetary Values Drivers' Place on Comfort in Night Driving" by Schwab, R.N., Solomon, D., and Lyons, J.F. Journal of the Illuminating Engineering Society, 2, No. 2, 104-112, 1973.

Behavioral Evaluation of Pedestrian Signals. Traffic Engineering, 44, No. 2, 22-26, November 1973.

Psychometric Identification of Problem Drinkers. Quarterly Journal of Studies on Alcohol, 34, No. 4, 1332-1335, December, 1973.

Field Evaluation of Court Procedures for Identifying Problem Drinkers. Contract DOT-HS-031-2-303, University of Michigan, Highway Safety Research Institute, Report UM-HSRI-AL-73-18, December 1973 (with L.D. Filkins, D.V. Post, M.M. Chapman).

A Questionnaire for Analysis of Driver-Vehicle Factors Contributing to Selected Traffic Accidents. Project 329330, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-73-21, December 1973 (with C.M. Jorgeson).

Some Operational Considerations Affecting the Performance of Current and Proposed Headlamp Beams. 53rd Annual Meeting, Highway Research Board, Washington, D.C., January 1974.

Analysis of Sources of Error in Headlamp Aim. Society of Automotive Engineers, Report 740312, 1974 (with P. Olson).

Computer Simulation Evaluation of Current U.S. and European Headlamp Meeting Beams, and a Proposed Mid Beam. Society of Automotive Engineers, Report 740311, 1974.

Automobile Rear Lighting System Malfunctions, Surveys of Their Extent and Driving Simulator Studies of Some of Their Effects. Contract No. UM-7203-C128, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-19, 1974.

Development of a Computer Simulation to Evaluate the Effectiveness of Vehicle Rear Marking and Signaling Systems. Contract No. UM-7293-C128, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-20, 1974 (with W.L. Carlson).

Effects of Rearview Mirror Reflectivity on Drivers' Comfort and Performance. Contract No. UM-320298, Harmon International Industries, Inc., University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-22, 1974 (with P.L. Olson and C.M. Jorgeson).

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Experimental and Computer Simulation Evaluation of Headlamp Beams. In, Proceedings of the Symposium on "Driver Visual Needs in Night Driving," Committee on Visibility, Transportation Research Board, Columbus, Ohio, September 4-6, 1974.

Some Effects of Road, Truck and Headlamp Characteristics on Visibility and Glare in Night Driving. Society of Automotive Engineers, Report No. 740615, August 1974.

Study of Reflectorized Materials for License Plates. Contract UM-ORA-73-897-KB1, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-23, June 1974 (with D. Post and W.T. Pollock).

Development and Use of Driving Tests to Evaluate Headlamp Beams. Contract No. UM-7102-C128, Motor Vehicle Manufacturers Association, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-14, March 1974.

Evaluation of Automobile Rear Lighting and Signaling Systems in Driving Simulator and Road Tests. Contract No. DOT-HS-031-3-723, National Highway Traffic Safety Administration, University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-24, June 1974.

Foot Brake Pedal Force Capability of Drivers. Ergonomics, 17, No.4, 509-513, July 1974.

Effects of Low and Moderate Levels of Alcohol on Steering Performance. Proceedings of the 6th International Conference on "Alcohol, Drugs and Traffic Safety," Toronto, Canada, Sept. 8-13, 329-346, 1974, Addiction Research Foundation, Toronto, 1975.

Operational Evaluation of Court Procedures for Identifying Problem-Drinking Drivers. In, Proceedings of the 18th Annual Meeting, American Association for Automotive Medicine, Toronto, Canada, September 12-14, 1974.

Drivers' Vision and Performance with Convex Exterior Rearview Mirrors. Society of Automotive Engineers, Report No. 740961, October, 1974.

How Engineering Psychologists Can Improve Night Driving Safety: Automobile Headlighting Research. In, Proceedings of the 18th Annual Meeting of the Human Factors Society, Huntsville, October 15-17, 1974.

Effects on Drivers' Response Times and Errors of Some Malfunctions in Automobile Rear Lighting Systems. Society of Automotive Engineers, Report No. 741000, International Automobile Engineering and Manufacturing Meeting, October 21-25, 1974.

An Evaluation of Glare in Night Time Driving Caused by Headlights Reflecting from Automobile Rearview Mirrors. Society of Automotive Engineers, Report No. 740962, International Automobile Engineering and Manufacturing Meeting, October 21-25, 1974 (with Miller, N.D. and Baumgardner, D.)

MORTIMER, R. G.

Derivation of Information Requirements for Automobile and Truck Rear Lighting and Signaling Systems. Contract No. UM-7101-C128, Motor Vehicle Manufacturers Association of the U.S., Institute, Report No. UM-HSRI-74-25, November 1974.

Further Development of a Computer Simulation to Predict the Visibility Distance Provided by Headlamp Beams. Contract No. UM-7204-C128, Motor Vehicle Manufacturers Association of the U.S., Inc., University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-HF-74-26, November, 1974 (with J.M. Becker).

Evaluation of Meeting Beams by Field Tests and Computer Simulation. Contract No. UM-7204-C128, Motor Vehicle Manufacturers Association of the U.S., University of Michigan, Highway Safety Research Institute, Report No. UM-HSRI-74-27, December, 1974.

Effects of Alcohol on Safe Driving Skills. Grant No. MH-20666, National Institute on Alcohol Abuse and Alcoholism, University of Michigan, HSRI, Report No. UM-HSRI-HF-75-28, January, 1975.

Performance and Comfort of Drivers Related to the Reflectivity of Rearview Mirrors. Society of Automotive Engineers, Report 750453, February, 1975 (with P.L. Olson and C.M. Jorgeson).

Comparison of Eye Fixations of Operators of Motorcycles and Automobiles. Society of Automotive Engineers, Report 750363, February, 1975.

An Evaluation of the Cognitive Aspect of the American Dental Association's Learning About Your Oral Health Teaching and Learning Program. American Dental Association and World Dental Congress, Chicago, October, 1975 (with D. Stone and L. Rubinson).

Role of Motivation in Human Performance Studies. IEEE Systems, Man and Cybernetics Society, Man-Machine Systems Review, 1, No. 3, 26-26, December, 1975.

Eye Fixations of Drivers in Night Driving with Three Headlamp Beams. Proceedings, Society of Photo-Optical Engineers, Vol. 57, 81-88, 1975.

Evaluation of an Accelerator Position Signal. Annual Meeting, Transportation Research Board, Washington, D.C., January, 1976.

Implication of Some Characteristics of Drivers for Brake System Performance. Proceedings, International Conference on "The Braking of Road Vehicles," Institution of Mechanical Engineers (London), Loughborough University, 187-195, March, 1976.

Evolution of a US-ECE Improved Headlamp Beam. Proceedings, 6th International Ergonomics Association Conference, College Park, Maryland, 294-298, July, 1976.

A Simulator for Driving Research. Proceedings, 12th Annual Conference on Manual Control, University of Illinois, Champaign, Illinois, NASA Tech. Memo: TM X-73, 170; 493-497, May, 1976.

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Motor Vehicle Exterior Lighting. Human Factors, 18, No. 3, 259-272, 1976.

An Educational Approach for Court Referred DWI Offenders: Diagnosis and Program Evaluation. 50th Annual Convention, American School Health Association, New Orleans, October 1976 (with J. Pankau, K. Romer, D. Stone).

Drug Use and Driving by a University Student Sample. Proceedings, 20th Annual Meeting of the American Association for Automotive Medicine, Atlanta, November, 1976.

The Relationship of Bicycle Maneuverability to Handlebar Configuration. Applied Ergonomics, 7, No. 4, 213-219, December, 1976.

Accident and Exposure Data Analyses of Rear-End Collisions to Infer Human Failures. Presented at Transportation Research Board Human Factors Workshop: Human Factors Causes of Accidents, Washington, D.C., January 23, 1977.

Evaluation of Meeting Beams of Two- and Three-Beam Headlighting Systems. Society of Automotive Engineers, Report 770237, 1977.

Statistical Reliability of NPI Administered to a Sample of Sixth-Grade Children. Dental Hygiene, 51, No. 3, 109-113, March, 1977 (with L. Rubinson and D. Stone).

A Decade of Research in Vehicle Rear Lighting: What Have We Learned? Proceedings, 21st Annual Meeting, American Association for Automotive Medicine 101-112, September, 1977.

Evaluation of a High-Deceleration Braking Signal in a Driving Simulator. Proceedings, 21st Annual Meeting, Human Factors Society, 558-561, October, 1977.

Discussion of "Evaluation of Motorcycle Daytime High Visibility Aids," by W. Ashford et al Session 91, 57th Annual Meeting of the Transportation Research Board, Washington, D.C., January 1978.

Is Driver Performance Research Meeting Its Demands? Session 29, Annual Meeting of the Transportation Research Board, Washington, D.C., January 1978.

Review of Effects of Alcohol and Other Licit Drugs on Driving-Related Performance. Proceedings, 22nd Annual Meeting of the Human Factors Society, Detroit, Michigan, 564-573, October 1978 (with P.A. Howat).

Drug and Alcoholism Treatment—A Systems Approach. A review of "Differential Treatment of Drug and Alcohol Abusers," by C.S. Davis and M.R. Smith, Contemporary Psychology, 23, No. 7, 531-532, 1978.

Evaluation of the Written Test and the Riding Skill Test Used in the Motorcycle Rider Course. University of Illinois, Safety Research Report #78-1, September 1978.

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Development of a Risk Methodology for Transportation Systems Safety—The Highway Mode. Final Report, Contract US-DOT-OS-50238, University of Illinois, Report #UILU-ENG-78-4007, 1978 (with C.S. Larson, R.A. White, J. Baerwald).

Discussion of “Driver Performance with Right Side Convex Mirror,” by Mourant, R. and Donohue, R. Annual Meeting of the Transportation Research Board, 1979.

Review of “How Things Don’ t Work,” by Papanek, V. and Hennessey, J. Journal of Consumer Affairs, 1979.

Effects of Alcohol and Diazepam, Singly and in Combination on Some Driving Performances. Annual Conference Research Society on Alcoholism—NCA-AMSA, Washington, D.C., May 1979, (DOT-HS-804-857), pp. 321-341.

Identification and Assessment Scales for Problem Drinkers: The Mortimer-Filkins Test. 2nd Annual DWI Conference of the American Automobile Association, Rochester, Minnesota, In proceedings of the conference, May 30-June 1, 56-62, 1979.

Some Effects of Alcohol on Car-Driving on Two-Lane and Limited Access Highways. In, Proceedings of the Annual Meeting of the Human Factors Society, Boston, October 29-November 2, 254-258, 1979.

Some Effects of Alcohol on Car-Driving on Two-Lane and Limited Access Highways. In, Proceedings of the Annual Meeting of the Human Factors Society, Boston, October 29-November 2, 254-258, 1979.

Explaining Safety Helmet Use by Motorcycle Operators Using a Behavioral Intention Model. Annual Meeting of the American Public Health Association, November 5, 1979 (with J.P. Allegrante).

Field Test Evaluation of Rear Lighting Deceleration Signals: I—Analytical and Experimental Studies. Contract No. DOT-HS-6-01447, USDOT, National Highway Traffic Safety Administration, Interim Report, University of Illinois, March 1979.

Explaining Safety Helmet Use by Motorcycle Operators Using a Behavioral Intention Model. Proceedings: International Motorcycle Safety Conference, Washington, D.C., May 1980 (with J.P. Allegrante).

Field Test Evaluation of Gap-Acceptance of Drivers as a Function of Motorcycle Front Lighting. Proceedings: International Motorcycle Safety Conference, Washington D.C., May 1980.

Alcohol and simulated Car-Following Performance. Proceedings: American Association for Automotive Medicine, Rochester, New York, 26-34, October 1980.

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Motorcycle Headlighting: Experimental and Computer Simulation Comparisons of Nighttime Visibility Distances Obtained with Various Headlamp Beams. Proceedings: Human Factors Society, Los Angeles, 408-411, October 1980.

A Pilot Study Evaluation of the Motorcycle Safety Foundation's Motorcycle Rider Course, July 1980.

Licit Drugs and Driving—A Major Public Health Problem, ANZERCH Conference, May 1980 (with P. Howat).

Alcohol and Simulated Car-Following Performance. Proceedings: American Association for Automotive Medicine, Rochester, New York, 26-34, October 1980.

Factors in Motorcycle Helmet Use—Implications for Public Policy. Journal of Safety Research, 12, No. 3, 115-126, Fall 1980 (with J. Allegrante).

Car-Following Evaluation of Braking Deceleration Level Signals. Society of Automotive Engineers, Report 810188, February 1981.

Field Test Evaluation of Rear Lighting Deceleration Signals: II—Field Test. Final Report on Contract U.S. Department of Transportation, NHTSA, US-DOT-HS-6-01447, October 1981.

Effects of Braking Deceleration Signals on Rear-End Collisions. Proceedings: American Association for Automotive Medicine, 369-380, October 1981.

An Evaluation of the Motorcycle Rider Program. Proceedings: 26th Annual Conference, American Association for Automotive Medicine, 77-91, October 1982.

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Scaling of Flash Rate for a Deceleration Signal. Human Factors, 25, #3, 313-318, 1983.

On Attitudes to Seat Belts and a Seat Belt Law. American Journal of Public Health, letter to the editor, 73, No. 8, 922, 1983.

Is the Public Ready for a Belt-Use Law? Traffic Safety, 14, May-June, 1983.

Public Opinion about Seatbelts and Seatbelt Law in Illinois. The Quarterly Journal, American Association for Automotive Medicine, 20-21, April 1983.

Driving Simulator Performance as a Function of Alcohol, Stress and Incentive. Proceedings: 9th International Congress on Alcohol and Traffic Medicine, Mexico City, September 27-29, 1983.

A Seat Belt Use Law: Public Opinion, Feasibility and Benefits. SAFE Journal, 13, No. 3, 16-19, 1983.

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Attitudes to Helmet Effectiveness and a Helmet Law in Illinois. Motorcycle Rider Program Newsletter, 1, No. 6, September 1983.

Human Factors Considerations in Traffic Engineering. Paper presented at the 36th Annual Illinois Traffic Engineering Conference, October 25-26, Champaign, Illinois, 1983.

Attitudes toward a Helmet Law in a Sample of Illinois Motorcyclists and a Sample of Motorcycle Course Instructors. Motorcycle Rider Program Newsletter, 1, No. 7, 3-6, November 1983.

Visibility of Agricultural Equipment on the Highway: Safety Design Considerations. Report No. 83-5531, American Society of Agricultural Engineers, Winter Meeting, Chicago, December 13-16, 1983.

Will We Ever Have a World-Wide Beam Pattern for Headlamps? Discussant, Society of Automotive Engineers International Congress, Detroit, February 17, 1984.

The High Mounted Brake Light Federal Standard: Examination of the Basis for the Requirement. Paper presented at the Society of Automotive Engineers International Congress, Detroit, February 18, 1984.

A Study of the Braking Performance of Motorcyclists with an Integrated Braking System. Proceedings of the Institution of Mechanical Engineers (London) Vol. 198D, No. 11, 1984.

Evaluation of the Motorcycle Rider Course. Accident Analysis and Prevention, 16, No. 1, 63-72, 1984.

Lighting Agricultural Equipment to Improve Safety. Agricultural Engineering, 65, No. 7, 23-27, 1984.

Some Effects on Driving Performance of Diazepam Alone and in Combination with Alcohol. Proceedings of the First International Symposium on Prescription Drugs and Driving Performance, Vinkeveen, the Netherlands, June 25-28, 1984.

Cost of Medical Treatment of Injured Motorcyclists in Illinois: Public Policy Implications. International IRCOBI Conference on the Biomechanics of Impacts, Delft, the Netherlands, September 4-6, 1984 (with E. Petrucelli); and Proceedings of the 28th Annual Meeting, American Association for Automotive Medicine, Denver, October 8-10, 1984.

Four Studies on Motorcycle Safety: Training, Attitudes to Helmets, Front Lighting and Integrated Brakes. Proceedings of the 12th Australian Road Research Board Conference, Hobart, Tasmania, Vol. 12, part 7 (Safety) 30-39, August 27-31, 1984.

Effects on Visibility of Wet Weather Spray from Heavy Goods Vehicles. Proceedings Conference on "Vision in Vehicles", Nottingham, England, September 9-13, 1985.

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Improving Motorcyclists Braking Performance: The Integrated Brake System. Proceedings of the Annual Meeting of the Human Factors Society, Baltimore, Maryland, September 29-October 13, 1985.

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