

REFERENCES

- (1) J.T. Carpenter, R.N. Fleischman, T.A. Dingus, F.E. Szczublewski, M.K. Krage, and L.G. Means, "Human factors engineering the TravTek driver interface," **Conference Record of Papers at the 2nd Vehicle Navigation and Information Systems Conference**, October, 199 1.
- (2) T.A. Dingus, J.A. Antin, MC. Hulse, W.W. Wierwille, "Human factors test and evaluation of an automobile moving-map navigation system. Part 1: Attentional demand requirements," General Motors Report ##CR-86/1 2/05, 1986.
- (3) J.A. Antin, T.A. Dingus, M.C. Hulse, and W.W. Wierwille, "An evaluation of the effectiveness and efficiency of an automobile moving-map navigational display," **International Journal of Man-Machine Studies**, **33,581-594**, 1990.
- (4) W.W. Wierwille, M.C. Hulse, T.J. Fisher, and T.A. Dingus, "Visual adaptation of the driver to high attentional demand situations while navigating with an in-car navigation system," **Vision in Vehicles** III, North Holland Press, Amsterdam, 1989.
- (5) M.J.H. Chandler, "In-vehicle route guidance and information system: Autoguide", Presentation, 69th Annual Meeting of the Transportation Research Board, Washington D.C., 1990
- (6) I. Catling, and P. Belcher, "Autoguide - route guidance in the United Kingdom," **IEEE (CH2 789-6/89/0000-0467)**, **1989**.
- (7) R.L. Sumner, "In-vehicle congestion display system: Pathfinder", Presentation, 69th Annual Meeting of the Transportation Research Board, Washington, D.C., 1990.
- (8) T.A. Dingus, and M.C. Hulse, "Preliminary human factors test and evaluation of the TravTek and highway drivers assistant conceptual designs," General Motors Report #CR-90/06, 1990.
- (9) C.D. Wickens, **Engineering Psychology and Human Performance**, Harper Collins Publishers, Inc., 1992.
- (10) W.W. Wierwille, and Gutman, "Comparison of primary and secondary task measures as a function of simulated vehicle dynamics and driving conditions," **Human Factors**, **20 (2)**, **233-244**, 1978.
- (11) R.W. Monty, "Eye movements and driver performance with electronic automotive displays", Unpublished Masters Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA, 1984.
- (12) J.A. Antin, T.A. Dingus, MC. Hulse, and W.W. Wierwille, "An evaluation of the effectiveness and efficiency of an automobile moving-map navigational display," **International Journal of Man-Machine Studies**, 1990.
- (13) A. Wetherell, "Short term memory for verbal and graphic route information," **Proceedings of the Human Factors Society, 23rd Annual Meeting**, Santa Monica, CA: Human Factors Society, 1979.

- (14) M.S. Sanders, and E.J. McCormick, **Human Factors in Engineering and Design**, McGraw-Hill, Inc., 1987.
- (15) R.R. Mourant, and T.H. Rockwell, "Mapping eye movement patterns to the visual scene in driving: An experimental study," **Human Factors**, 12,8 1-87, 1970.
- (16) A. Burgett, Unpublished discussion paper on the TravTek safety evaluation, 1992.
- (17) H. Lunenfeld, "Human factor considerations of motorist navigation and information systems," **Vehicle Navigation and Information Systems Conference Proceedings**, 35-42, Warrendale, PA: Society of Automotive Engineers, 1989.
- (18) V.D. Bhise, L.M. Forbes, and E.I. Farber, "Driver behavioral data and considerations in evaluating in-vehicle controls and displays," presented at the Transportation Research Board 65th Annual Meeting, Washington, D.C., 1986.
- (19) J.A. Antin, T.A. Dingus, M.C. Hulse, and W.W. Wierwille, "The effects of spatial ability on automobile navigation," **Trends in Ergonomics/Human Factors V**, Elsevier Science, North Holland, 1988.
- (20) R.N. Fleischman, J.T. Carpenter, F.E. Szczublewski, T.A. Dingus, M.K. Krage, and L.G. Means, "Getting information to the driver: Human factors in the TravTek Intelligent Vehicle Highway System (MIS) demonstration," **Proceedings of the Human Factors Society - 35th Annual Meeting**, Human Factors Society, 199 1.
- (21) J. Rillings, and J. Lewis, TravTek, **SAE Technical Paper Series**, SAE No. 912819, 729-737, Warrendale, PA: Society of Automotive Engineers, 1991.
- (22) T.A. Dingus, J.A. Antin, M.C. Hulse, and W.W. Wierwille, "Attentional Demand Requirements of an Automobile Moving-Map Navigation System," **Transportation Research**, 23(A) (4), 301-315, 1989.
- (23) R.B. Ekstrom, J.W. French, H.H. Harman, and D. Dermen, "Manual for kit of factor-referenced cognitive tests", Educational Testing Service, NR 150 329, \ Princeton, NJ, 1976.
- (24) Statistical Analysis Systems, **SAS Language and Procedures: Usage, Version 6**, Cary, NC: SAS Institute Inc., 1992.
- (25) H.T. Zwahlen, and D.P. DeBald, "Safety aspects of sophisticated in-vehicle information displays and controls," **Proceedings, 1986 Meeting of the Human Factors Society**, 256-260, Santa Monica, CA: Human Factors Society, 1986.
- (26) National Highway Traffic Safety Administration, "General Estimates System 199 1: A review of information on police reported traffic crashes in the United States", US Department of Transportation, 199 1.
- (27) Ball, K., Owsley, C., Sloane M., Roenker, D., and Bruni, J., "Visual attention problems as a predictor of vehicle crashes in older drivers", **Investigative Ophthalmology and Visual Science**, 1993.

- (28) R.N. Fleischman, L.A. Thelen and D. Denard, "A Preliminary Account of TravTek Route Guidance Use by Renter and Local Drivers," ***Vehicle Navigation & Information Systems Conference Proceedings***. Warrendale, PA: Society of Automotive Engineers, 1993.