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CURRENT INTERESTS

Human factors, vision/visibility, lighting, aging, vehicular accidents, perception and reaction analysis, video analysis, human-environment interaction, accessibility, safety and hazard analysis.

EDUCATION

- **Ph.D., Psychology Department - The Ohio State University, 1960**
- **M.A., Psychology Department - The Ohio State University, 1958**
- **B.S., Psychology Department - The Ohio State University, 1957**

EXPERIENCE

Human Factors Scientist – Cummings Scientific, LLC, Tallahassee, FL. Specializing in analysis of accidents involving human factors analysis, visibility analysis, and perception and reaction consistent with the physics of the accident situation.

Professor Emeritus, Florida State University, Tallahassee, FL.

Professor – Department of Educational Research, Florida State University

Associate Professor – Department of Educational Research, Institute of Human Development, Florida State University.

Associate Professor – Psychology Department, University of Rochester.

Associate Professor – Psychology Department, University of Wisconsin, Madison.

Assistant Professor – Psychology Department, University of Wisconsin, Madison.

PUBLICATIONS, PRESENTATIONS, AND TALKS

1. Fletcher, H.J., & Mowbray, J.B. Note on learning in an aged monkey. Psychol. Rep., 1962, 10, 11-13.
2. Harlow, H. F., & Fletcher, H.J. Communication systems in animals. A manuscript included in RIAS Berlin University of the Air 1962 Series of Modern Biology: Research and Results.
3. Cross, H.A., Fletcher H.J., & Harlow, H.F. Effects of prior experience with test stimuli on learning-set performance of monkeys. J. comp physiol. Psychol., 1963, 56, 204-407.

4. Polidora, V. J., & Fletcher, H. J. An analysis of the importance of S-R contiguity for proficient discrimination performance. J. comp. physiol. Psychol., 1964, 57, 224-230.
5. Fletcher, H.J., & Cross, H.A. Effects of trial reward contingency, intertrial interval and experience on intraproblem discrimination performance of monkeys. J. comp. physiol. Psychol., 1964, 57, 318-320.
6. Fletcher, H.J., Bowman, R.E., & Boelkins, R. C. Discrimination of broken circles by normal and X- Radiated monkeys. J. comp. physiol Psychol., 1964, 58, 312-314.
7. Joslin, J., Fletcher, H., & Emlen, J. A comparison of the responses of snakes of lab and wild-reared rhesus monkeys, Animal. Behavior., 1964, 12, 348-352.
8. Fletcher, H.J. Activity during delay interval and delayed response errors in monkeys. Psychol. Rep. 1964, 14, 685-686.
9. Fletcher, H.J., Davis, J.K., Orr, B.M., & Ross, P. Prompted versus trial-and-error initial object discrimination learning by monkeys, retardates, and pre-school children. Psychon. Sci., 1965; 2, 59-60.
10. Fletcher, H.H. The delayed-response problem. In A. M. Schrier, H.F. Harlow, & F. Stollnitz (eds) Behavior of nonhuman primates: modern research trends. Vol. 1. Academic Press, New York, 1965.
11. Fletcher, H.J., & Takemura, K. Prompted versus trial-and-error concept discrimination learning in monkeys. Perceptual Motor Skills, 1965, 20, 737-743.
12. Fletcher, H.J. Implicit responses in discrimination learning of retardates. Psychonomic Science, 1965, 2, 229-230.
13. Fletcher, H.J., & Bordow, A. M. Monkeys' solution of an ambiguous-cue problem. Perceptual Motor Skills, 1965, 21, 1151-119.
14. Fletcher, H.J., & Davis, J.K. Evidence supporting an intratrial interpretation of delayed response performance of monkeys. Perceptual Motor Skills. 1965, 21, 735-742.
15. Fletcher, H.J. Discrimination learning by retardates as a function of number of implicit response trials. Psychonomic Science, 1966, 4, 159-160.
16. Fletcher, H.J. Prompted vs. trial-and-error 3-trial object discrimination learning by monkeys. Psychonomic Science. 1966. 4, 111-112.
17. Boyer, W.N., Polidora, V.J., Fletcher, H.J. and Woodruff, W. Monkey's performance on ambiguous-cue problems. Perceptual Motor Skills, 1966, 22, 883-888.
18. Fletcher, H.J. and Orr, B.M. Instructions and observational learning in preschool children. Psychonomic Science, 1967, 7, 83-84.
19. Fletcher, H.J. Possible interpretive problems in analyses using group means as the experimental unit. Psychological Bulletin, 1968, 69, 157-160.
20. Fletcher, H.J., Garske, J.P., Barron, and Grogg, T.M. Intertrial determinants of delayed responses of monkeys. J. comp. physiol. Psychol., 1968, 65, 66-71.
21. Fletcher, H.J. Grogg, T.M., and Garske, J.P. An analysis of ambiguous-cue problem performance of children, retardates, and monkeys, J. comp. Physiol. Psychol., 1968, 66, 477-482.

22. Fletcher, H.J., and Garske, J.P. Logical inference in discrimination learning of young children. Univ. Wisconsin Research and Development Center for Cognitive Learning. Tech. Rept. No. 50. 1968.
23. Grogg, T.M., and Fletcher, H.J. Developmental study of sign-differentiated and non-sign-differentiated conditional discrimination learning. Univ. Wisconsin Research and Development Center for Cognitive learning. Tech. Rept. No. 55, 1968.
24. Kemmer, J., Sawin, D., Freiheit, G., and Fletcher, H.J. Inference and discrimination learning of early elementary school children. Univ. Wisconsin Research and Development Center for Cognitive Learning. Tech. Rept. No. 74, 1968.
25. Romberg, T., Fletcher, H.J. and Scott, J. A measurement approach to elementary mathematics instruction. Univ. Wisconsin Research and Development Center for Cognitive Learning, Working Paper No. 28. 1968.
26. Fletcher, H.J. Toward a general model for describing cognitive processes. Univ. Wisconsin Research and Development Center for Cognitive Learning. Theoretical Paper No. 23, 1969.
27. Harvey, J.G., Meyer, R.W., Romberg, T.A., Fletcher, H.J. The Content of Geometry for the Elementary School. Univ. Wisconsin Research and Development Center for Cognitive Learning, Working Paper No. 28, 1969.
28. Fletcher, H.J. An efficiency reanalysis of the results of the international study. (of achievement in mathematics) J. Research in Mathematics Education, 1971, 2, No. 2, 143-156.
29. Fletcher, H.J., Garske, J.P. Response competition in monkey's solution of PAN ambiguous-cue problems. J. Learning and Motivation, 1972, 3, 334-340
30. Fletcher, H.J., Cox, W.G. Developmental aspects of scientific reasoning. Final Report. Project No. 2-D-032. Grant No. OE6-4-72-0019. HEW, Office of Education, 1972.
31. Urbano, R. & Fletcher, H.J. Competencies of school psychologists. Florida Pupil Personnel Services Quarterly, 1973, 6, No. 3.
32. Urbano, R. & Fletcher, H.J. Identification of school psychology competencies. Final Report. Project No. 73-439. Florida State Department of Education, 1973.
33. Fletcher, H.J., Beagles, C.A., Dood, H.T., & Wildman, T.M. Institutional participation in the 1974 AERA Annual meeting. Educational Researcher, 1974, 3, No. 7, 8-10.
34. Cox, W.F. and Fletcher, H.J. Information seeking versus information utilization in children's induction from incomplete pictures. Perceptual and Motor Skills, 1976, 43, 151-153.
35. Fletcher, H.J. and Duncan, W.A. Survey of internship in traditional and teacher education center programs. (Final project report submitted to Florida Department of Education, September, 1976).
36. Wildman, T.W. and Fletcher, H.J., Developmental increases and decreases in conditional reasoning. Developmental Psychology, 1977, 13(6), 630-636.

37. Grosslight, J.W. and Fletcher, H.J., Masterton, B.M. and Hagen, R. Monocular vision and landing performance of general aviation pilots: Cyclops revisited, Human Factors, 1978, 20(1), 27-33.
38. Wildman, T.M. & Fletcher, H.J., Processing errors in conditional and biconditional problem solving behavior. Contemporary Educational Psychology, 1979, 4, 366-380.
39. Cox, W.F., and Fletcher, H.J. Variations of age and task difficulty in selection versus reception stimulus presentation paradigms. American Journal of Psychology. 1979, 92, 115-123.
40. Good, R. & Fletcher, H.J. Reporting explained variance. Journal of Research in Science Teaching, 1981, 18, 1-7. (Awarded "Most Significant Contribution of the Year", March 82)
41. Lane, D., Fletcher, D. & Fletcher, H.J. Improving conditional syllogism performance of young and gifted children with discovery and rule instruction. Journal of Educational Psychology, 1983, 75, 441-449.
42. Kiewra, K.A. & Fletcher, H.J. The relationship between levels of notetaking and achievement. Human Learning, 1984, 3, 273-280.
43. Mand, B. & Fletcher, H.J. The NAAAA: 10 years old and changing. Academic Athletic Journal, 1986, Fall, 1-14.
44. Fletcher, H. J. & Mand, B. Grade improvement by academically endangered student athletes following brief study skills training. Academic Athletic Journal, 1988, Spring, 17-23.
45. Wildman, T.M., Fletcher, H.J., & Prentiss, K. Changes in institutional participation at AERA annual meetings. Educational Researcher, 1988, December, 17-20.
46. Fletcher, H.J., Daw, H., & Young, J. Controlling multiple F test errors with an overall F test. Journal of Applied Behavioral Science, 1989, 25, 101-108.
47. Fletcher, H.J. Analysis of the Indian River Project 1982-1986. Florida Department of Education, Planning and Evaluation, Adult Migrant Program (Final Report, October, 1990).
48. Fletcher, H.J. An Analysis of the Seminole Project 1982-1986. Florida Department of Education, Planning and Evaluation, Adult Migrant Program (Final Report, October, 1990).
49. Fletcher, H.J. An Analysis of the Leon Project 1982-1986. Florida Department of Education, Planning and Evaluation, Adult Migrant Program (Final Report, November, 1990).
50. Fletcher, H.J. & Roeder, M. Procedures for handling complaints against faculty. (in Proceedings of Conference on Academic Governance, Florida State University, Tallahassee, Florida, October 23, 1992; proceedings reportedly in preparation for publication).
51. Palmer, B.C., Fletcher, H.J., & Shapley, B.A. Improving both reading and writing performance of middle and high school students with newspaper-based instruction. Newspaper Research Journal, 1994, 15, 50-55.

52. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
53. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Grayton Beach State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
54. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Big Lagoon State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
55. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Flagler Beach State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
56. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Sebastian Inlet State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
57. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Little Manatee River State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
58. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Delnor-Wiggins Pass State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
59. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Cape Florida State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
60. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Lloyd Beach State Recreation Area: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
61. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for St. George Island State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
62. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for St. Joseph State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
63. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Manatee Springs State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
64. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Paynes Prairie State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
65. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Little Talbot Island State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.

66. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for O'Leno State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
67. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Tomoka State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
68. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Wekiwa Springs State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
69. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Hillsborough River State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
70. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Oscar Scherer State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
71. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Coral Reef State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
72. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for MacArthur Beach State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
73. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Maclay Gardens: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
74. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Stephen Foster Cultural Center: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
75. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Washington Oaks State Park: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
76. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Gamble Plantation: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
77. Beeler, C.; Fletcher, D.; & Fletcher, H. (1995). Florida State Park Visitors Study for Fort Zachary Taylor: Final Report. Tallahassee, FL: Florida Department of Environmental Protection.
78. Cummings, J. R., Fletcher, H. J., Biller, B. A., Scanlan, S., Lamb, R., & Russo, M. D. (2016). Estimates of Motorcycle Speed Made By Eyewitnesses Under Ideal Experimental Conditions. *Accident Reconstruction Journal*, 12–17.