

226
229

RELATED CORRESPONDENCE

TRIAL LAWYERS FOR PUBLIC JUSTICE, P.C.

COUNSELLORS AT LAW

SUITE 611

2000 P STREET, NORTHWEST

WASHINGTON, D.C. 20036

(202) 463-8600

July 6, 1984

DOCKETED
JUL 10 11:09

Bruce Downey, Esquire
Bishop, Liberman, Cook,
Purcell & Reynolds
1200 Seventeenth Street, N.W.
Washington, D.C. 20036

Stuart Treby, Esquire
Office of Executive Legal Director
U.S. Nuclear Regulatory Commission
Maryland National Bank Building
Room 10105
4350 East-West Highway, 4th Floor
Bethesda, Maryland 20814

50-445/446 OL

Gentlemen:

I am enclosing for your reference a copy of the curriculum vitae of Irwin L. Goldstein who we expect to call as an expert witness.

Sincerely,



Anthony Z. Roisman
Executive Director

cc: Honorable Peter Bloch
Ms. Ellen Ginsberg
Dr. Kenneth A. McCollom
Herbert Grossman
Chairman, ASLB Panel
Chairman, ASLAB Panel
John Collins
Michael D. Spence
Renea Hicks, Esquire
Lanny A. Sinkin
Dr. David H. Boltz
Dr. Walter Jordan

8407130228 840706
PDR ADOCK 05000445
PDR
G

DS03

March, 1984

VITA

IRWIN L. GOLDSTEIN

Date and Place of Birth: October 4, 1937; New York, New York
Social Security Number: 104-30-5172
Marital Status: Married, two children
Present Address: 8806 Gramercy Lane, Laurel, Maryland 20708

Education:

Secondary: Stuyvesant High School, New York City

Colleges Attended:

Queens College of New York	9/55 - 2/57	General Program
City College of New York	2/57 - 6/59	B.B.A., Psychology, June, 1959
University of Maryland	9/59 - 1/64	M.A., General Psychology, January, 1962
		Ph.D., January, 1964
		Major: Experimental
		Minor: Industrial

Professional Employment:

1. University of Maryland, College Park, Maryland. 9/66 to the present.
Title - Professor and Chair (Department of Psychology, 7/1/81)
Duties-
 - a. Leadership and Administration of the Department of Psychology.
 - b. Designing, analyzing, and supervising of research in the areas of training and instructional systems, evaluation, industrial/organizational psychology and human performance.
 - c. Teaching courses in Industrial/Organization Psychology and Engineering Psychology.
2. Ohio State University, Columbus, Ohio. 9/63 to 9/66.
Title - Assistant Professor (Department of Psychology)
Duties-
 - a. Developing and administering the doctoral program in Engineering Psychology.
 - b. Teaching courses in Engineering, Industrial and Sensory Psychology.
 - c. Designing, analyzing and supervising of research in the areas of visual information processing, decision making and man-machine systems.
3. National Institute of Health Fellowship, University of Maryland. 9/62 to 8/63.
Title - Predoctoral Fellow
Doctoral thesis research - The effects of response category restriction and stimulus complexity on observer responses.

4. Institute for Behavioral Research, University of Maryland. 6/62 to 6/63
 Title - Junior Research Associate
 Duties- Assisting in designing and conducting experiments investigating the effects of retinal burns on visual acuity.
5. University of Maryland, College Park, Maryland. 2/60 to 6/62.
 Title - Teaching Assistant
 Duties- a. Teaching discussion sections of Introductory Psychology (4 semesters).
 b. Preparing laboratory experiments and lecturing on laboratory techniques for laboratory sections of experimental psychology (Sensory and Learning, 2 semesters).
6. Human Sciences Research, Arlington, Virginia. Summer 1961.
 Title - Research Assistant
 Duties- Literature research and preparation of a report on observer systems.
7. Executive Appraisal, Queens, New York. 1957 to 1958 (part-time).
 Title - Research Assistant
 Duties- Data collection and analysis of market research data.

Editorships, Honors, Professional Activities:

Associate Editor, Journal of Applied Psychology (1980 - present)
 Associate Editor, Human Factors Journal (1976 - present)
 Editorial Board, Frontiers of Industrial and Organizational Psychology (1983-88)
 Editor, JSAS Section on Engineering Psychology (1977 - 1979)
 Editorial Board, Organizational Behavior and Human Performance (1972 - 1979)
 Associate Editor, Journal of Motor Behavior (1969 - 1976)

Fellow, American Psychological Association: Elected to Fellow by The Society of Engineering Psychology and by The Society of Industrial/Organizational Psychology
 Fellow, Elected to Fellow by the Human Factors Society
 Fellow, Elected to Fellow by Maryland State Psychological Association

Elected Member at Large to Executive Committee of the Society of Industrial/Organizational Psychology of the American Psychological Association (1980 - 1983)
 Editor, Society of Engineering Psychology Newsletter (1973 - 1979)
 Chair, Committee on mid-year scientific meeting - Society of Industrial/Organizational Psychology (1983 - present)
 Member, American Psychological Association Subcommittee on Continuing Education Sponsor Recognition (1976 - 1979)
 Appointed Member, National Research Council Committee on Research in Human Factors (1980 - present)

National Aeronautics and Space Administration Summer Fellow (1967)
 National Institutes of Health Pre-doctoral Fellow (9/62 - 8/63)
 Psi Chi
 Sigma Xi
 Outstanding Educators in America for 1975

Listings:

American Men of Science
Marquis Who's Who in the East

listings (cont.)

Dictionary of International Biography
Contemporary Authors
Outstanding Educators of America
Personalities of the South
The World Who's Who of Authors
International Authors and Writers Who's Who

Contracts and Grants:

Co-Investigator (1/65 to 1/66 while at Ohio State University) for contract from Rome Air Development Center to investigate "Influence of Stress Variables on Display Design" (\$34,000).

Principal Investigator (6/66 to 1/69, University of Maryland) for contract from National Institute of Health to investigate "Observer Error in the Visual Processing of Radiographs" (\$12,000).

Principal Investigator (2/71 to 1/74, Co-Investigator - 4/67 to 2/71, University of Maryland) for contract from Air Force Office of Scientific Research for "Analysis of Experiments in Life Sciences" (95,000).

Co-Investigator (4/75 to 3/76, renewable until 3/78, University of Maryland) for contract from the Office of Naval Research for research entitled Enhancing the ability-performance relationship: A study of some psychological and contextual factors affecting total group and differential validity (\$58,000).

Principal Investigator (5/80 to 2/84, University of Maryland) for contract from Air Force Office of Scientific Research for research entitled An Evaluation and Research Model to Examine Minority Introduction to Engineering Programs (\$242,000).

Books:

Howell, W.C., & Goldstein, I.L. (Eds. & Authors) Engineering Psychology: Current perspectives in research. New York: Appleton/Century/Crofts, 1971.

Goldstein, I.L. Training: Program development and evaluation. Calif: Brooks/Cole, 1974.

Goldstein, I.L., Tuttle, T.C., Wood, D.G., Grether, C.B. Behavioral action intervention strategies. Columbia, Md.: Westinghouse Behavioral Services Center, 1975.

Publications:

Ross, S., Goldstein, I.L., & Kappel, S. Perceptual factors in eating behavior in chicks. Journal of Comparative Physiology and Psychology, 1962, 55, 240-241.

Yarczower, M., Kappel, S., Frey, R., Goldstein, I.L., Weissman, H., & Blumberg, H. Effects of amount, percentage of reinforcement and deprivation condition on runway time. Psychological Reports, 1962, 11, 406.

Publications (cont.)

- Goldstein, I.L., & McGinnies, E. Compliance and attitude change under conditions of differential social reinforcement. Journal of Abnormal and Social Psychology, 1964, 68, 567-670. Chosen for inclusion in McGinnies, E., & Ferster, C.B. (Eds.) The reinforcement of social behavior: Selected readings. New York: Houghton Mifflin, 1971.
- Schum, D., Goldstein, I.L., & Southard, J. Research on a simulated Bayesian information processing system. Transactions of the Professional Technical Group on Human Factors in Electronics of the IEEE, 7, #1, March, 1966, 37-48 (Invited paper).
- Goldstein, I.L. The effects of stimulus complexity and restrictive response subclasses on observer responses. Journal of Experimental Psychology, 1965, 71, 104-108.
- Johnston, W., Howell, W., & Goldstein, I.L. Human vigilance as a function of signal frequency and stimulus density. Journal of Experimental Psychology, 1966, 72, 736-743.
- Howell, W., Johnston, W., & Goldstein, I.L. Complex monitoring and its relation to the classical problems of vigilance. Journal of Organizational Behavior and Human Performance, 1966, 1, 129-150 (Invited paper).
- Goldstein, I.L., Southard, J., & Schum, D. Feedback in a complex multimanmachine system. Journal of Applied Psychology, 1967, 51, 346-351.
- Schum, D., Goldstein, I.L., Howell, W., & Southard, J. Subjective probability revision under several cost-pay off arrangements. Journal of Organizational Behavior and Human Performance, 1967, 2, 84-104.
- Goldstein, I.L., Emanuel, J., & Howell, W. Effect of percentage and specificity of feedback on choice behavior in a probabilistic information processing task. Journal of Applied Psychology, 1968, 52, 163-168.
- Goldstein, I.L., Johnston, W., & Howell, W. Complex vigilance: Relevant and irrelevant signals. Journal of Applied Psychology, 1969, 53, 45-48.
- Howell, W.C., & Goldstein, I.L. Engineering psychology in the 1970's: A view from the ivory tower. Journal of Organizational Behavior and Human Performance, 1970, 5, 159-169.
- Goldstein, I.L., & Allen, J.C. Effects of irrelevant stimuli on the processing of information in complex displays. Journal of Applied Psychology, 1971, 55, 110-113.
- Goldstein, I.L., Mobley, W.H., & Chelimi, S.J. The observer process in the visual interpretation of radiographs. Journal of Dental Education, August, 1971.
- Goldstein, I.L. The application blank: How honest are the responses? Journal of Applied Psychology, 1971, 55, 491-492.
- Goldstein, I.L., & Mobley, W.H. Error and variability in the visual processing of dental radiographs. Journal of Applied Psychology, 1971, 55, 549-553.
- Dorfman, P.W., & Goldstein, I.L. Spatial and temporal function as cues in a time sharing task. Journal of Applied Psychology, 1971, 55, 554-558.

Publications (cont.)

- Goldstein, I.L. Irrelevant information: Is there any? Proceedings of the American Psychological Association, 1972, 7, 677-678.
- Goldstein, I.L. (Invited paper) Irrelevant information as a variable in complex displays. Behaviormetric, 1973, 3, 67-73.
- Goldstein, I.L. Toward individualized instructional systems. (Invited paper) In Dubin, S. (Ed.) Maintaining Profession and technical competence of the older engineer: Engineering and psychological aspects. Washington, D.C.: American Society of Engineering Education, 1974.
- Goldstein, I.L. Training. In Margolis, B., & Kroes, B. (Invited paper) Human side of accident prevention: Psychological concepts and principles which bear on safety. Springfield, Ill.: Charles C. Thomas, 1975.
- Dorfman, P., & Goldstein, I.L. The effects of task coherency preview and speed stress on timing and anticipation. Journal of Motor Behavior, 1975, 7, 45-55.
- Goldstein, I.L. Training and fair employment crisis. (Invited editorial) Human Factors Society, Technical Interest Group in Training Newsletter, No. 9, June, 1975.
- Goldstein, I.L. Information processing. (Invited paper) International Encyclopedia of Neurology, Psychiatry, Psychoanalysis, and Psychology, Van Nostrand Reinhold, 1977.
- Mobley, W.H. & Goldstein, I.L. The effects of payoff on the visual processing of dental radiographs, Human Factors, 1978, 20, 385-390.
- Goldstein, I.L. & Dorfman, P.W. Speed and load stress as determinants of performance in a time sharing task. Human Factors, 1978, 20, 603-609.
- Goldstein, I.L. Organizational analysis: A necessary component for development and evaluation of training programs. Proceedings of Human Factors Symposium - Training: Technology to Policy, U.S. Army Research Institute for the Behavioral & Social Sciences. Special Publication #77-6, Washington, D.C., December, 1977.
- Goldstein, I.L. Evaluation of Educational and Training Programs (Invited paper). In Coursey, R.D., Specter, G., Murrell, S. & Hunt, B. (Eds.). Program Evaluation for Mental Health: Methods, Strategies, and Participants. Gruen and Stratton, 1977.
- Goldstein, I.L. (Invited editor for issue). Training: Methodological Considerations and Empirical Approaches. Human Factors, 1978, 20, 129-232.
- Goldstein, I.L. The pursuit of validity in the evaluation of training programs. Human Factors, 1978, 20, 131-144.
- Goldstein, I.L. A systems approach to studying organizations: selection, training, performance. Proceedings of the Human Factors Society, 1978.
- Goldstein, I.L. The pursuit of internal and external validity in the evaluation of training programs (Invited paper-Revision of Goldstein, I.L. Human Factors, 1978, 20, 131-144). Public Personnel Management, 8, 416-429.

- Goldstein, I.L. Training research in the 70's: Many questions and a few answers. Proceedings of the Human Factors Society, 1979.
- Goldstein, I.L. Training and organizational psychology. Professional Psychology, 1980, 11, 421-427.
- Goldstein, I.L. Training in work Organizations. In Annual Review of Psychology. 1980, 29, 229-272.
- Goldstein, I.L., Macey, W.H., Prien, E.P. Needs assessment approaches for training development. In Meltzer, H. & Nord, W. (Eds.), Making organizations humane and productive: A handbook for practitioners. New York: Wiley, 1981, pp. 41-52.
- Goldstein, I.L. Review of Latham, G.P. & Wexley, K.N., Increasing productivity through performance appraisal. Personnel Psychology, 1981, 34, 618-620.
- Goldstein, I.L. & Buxton, V.M. Training and human performance. In Fleishman, E.A. & Dunnette, M.D. (Eds.), Stress and performance effectiveness. New Jersey: Earlbaum Press, 1982, pp. 135-178.
- Goldstein, I.L. Training in the 1970's: A view toward the 1980's. In Kasschau, R.A., Lachman, R., & Laughery, K.R. (Eds.) Information technology and Psychology. U.S.A.: Praeger, 1982, pp. 133-147.
- Goldstein, I.L. & Chapanis, A. Population group differences. In Pew, R. & Hennessy, R.T. (eds.) Research needs in human factors. Washington, D.C.: National Academy Sciences Press, 1983.
- Goldstein, I.L. The relationship of training goals to basic research in instruction. Proceedings of Air Force Human Resources Laboratory Symposium, in press.
- Goldstein, I.L. Systems issues in training research Handbook of Human Factors/Ergonomics. John Wiley & Sons, in press.
- Papers:
- Goldstein, I.L. A study of attitude change conditions of forced compliance in a small group discussion. Presented at the Eastern Psychological Association, 1962.
- Goldstein, I.L. The effects of training, response category restriction and stimulus complexity on observer responses. Presented at the Eastern Psychological Association, April, 1963.
- Howell, W., Johnston, W., & Goldstein, I.L. Monitoring behavior in the complex visual display situation. Presented at the Psychonomic Society, October, 1965.
- Goldstein, I., & Emanuel, J. The effects of response modes and experience on conditional probability judgements. Presented at the Eastern Psychological Association, April, 1966.
- Johnston, W., Howell, W., & Goldstein, I. Regulation of attention to complex displays. Presented at the Midwestern Psychological Association, May 1966.
- Goldstein, I., Johnston, W., & Howell, W. The monitoring of relevant and irrelevant signals in a complex vigilance task. Presented at the Eastern Psychological Association, April, 1967.

paper (cont.)

- Allen, J.C. & Goldstein, I.L. Effects of irrelevant stimulation on the use of categories. Presented at the Eastern Psychological Association, April, 1969.
- Goldstein, I.L. Symposium participant on Applied Visual Processes. Presented at the Eastern Psychological Association, April, 1971.
- Goldstein, I.L. The evaluation of instructional media. Presented at the Maryland State Teachers Association Meetings, October, 1971.
- Goldstein, I.L. Irrelevant information: Is there any? Invited Fellow Address for the American Psychological Association, Division of Engineering Psychology, Sept. 1973 (Also appears in proceedings).
- Goldstein, I.L. Training as a method for accident reduction: An unknown utility. Invited address of the National Science Foundation Workshop at Westinghouse Behavioral Safety Center, 1974.
- Goldstein, I.L. Instructional technology and evaluation. Invited Address, to Fourth Annual Community Clinical Workshop, University of Maryland, 1974.
- Goldstein, I.L. Human factors and training as procedures for accident reduction. Invited talk to NASA managers, May 1975.
- Goldstein, I.L. Fair employment practices beyond personnel selection. Symposium chairperson at American Psychological Association Meetings, Sept., 1975.
- Hussein, A. & Goldstein, I.L. A current assessment of continuing education in psychology. Symposium presentation at American Psychological Association, 1976.
- Goldstein, I.L. Building individual continuing education plans, symposium presentation at American Psychological Association, 1977.
- Goldstein, I.L. Pursuing validity in the evaluation of training programs. Colloquium at Georgia Institute of Technology, 1978.
- Goldstein, I.L. Understanding research in organizational environments: Can process measures help? Presented at a symposium at Eastern Psychological Association, 1978.
- Goldstein, I.L. Training. In Conference on Human Factors in Productivity. Presented at Virginia Polytechnic University. 1978.
- Goldstein, I.L. Need assessment and evaluation processes in the design of training programs. Workshop presented at American Psychological Association, 1978.
- Goldstein, I.L. Discussant for Symposium Collision course for applied psychologists: regulation, professional competency and liability. American Psychological Association Meetings, 1978.
- Goldstein, I.L. The disruptive influence of organizations on training programs. Paper presented at a symposium at Eastern Psychological Association, 1979.

papers (cont.)

- Goldstein, I.L. Perspectives on training and development research in the 1970's. Invited Address - American Academy of Management, 1979.
- Goldstein, I.L. Training research in the 70's: Many questions and a few answers. Invited Address - Human Factors Society, 1979.
- Goldstein, I.L. conversation with the annual review author - Invited speaker - Division 14 of the American Psychological Association, 1979.
- Goldstein, I.L. An answer to team training instructional techniques: The design of needs assessment and evaluation procedures - Invited paper Team Training Conference sponsored by Rand Corporation, 1979.
- Goldstein, I.L. Training research in the real world - Invited speaker to the Metropolitan New York Association for Applied Psychology, 1980.
- Goldstein, I.L. Perspectives on Training Research in the 70's: A view toward the 80's. Invited speaker for Houston Symposium III Psychology & Society: Information Technology in the 1980's, 1980.
- Goldstein, I.L. Discussant for Symposium on Team Training. Human Factors Society, 1980.
- Goldstein, I.L. Issues in training research. Chair of symposium presented at American Psychological Association Meetings, 1981.
- Goldstein, I.L. Training. Discussant of session presented at American Academy of Management Meetings, 1981.
- Goldstein, I.L. Needs assessment and content validity. Presentation at Symposium on training needs assessment: For what purpose. American Psychological Association Meetings, 1982.
- Goldstein, I.L. Disruptive influence of organizations on their training programs. Presentation to the Maryland American Society for Training Development Chapter, 1982.
- Goldstein, I.L. The current status of Industrial and Organizational Psychology American Psychology Association distinguished visitors program at Frostburg State College, 1982.
- Goldstein, I.L. & Wexley, K.N. Needs assessment approaches in the design of training systems. Workshop presented at American Psychological Association, Los Angeles, 1983.
- Goldstein, I.L. Discussant for symposium: Integrated criterion measurement for large scale computerized selection and classification. American Psychological Association meeting. Los Angeles, 1983.
- Goldstein, I.L. Chair of symposium: Conversation with the Annual Review Authors, American Psychological Association Meetings, Los Angeles, 1983.

University of Maryland Administrative and Service Appointments:

Department of Psychology

Advisor, Psi Chi (National Undergraduate Honorary Society in Psychology), 9/71 to 6/72
 Assistant Chairman, (Acting Chairman, Spring 1977), 7/68 to 7/81
 Director of Graduate Studies, 7/69 to 7/81
 Chair, Department of Psychology 7/81 to present (on leave 9/83 to 7/84)

University and Behavioral & Social Sciences Division

Acting Dean for Graduate Studies and Research, 9/83 to 7/84
 Academic Council (College of Arts and Sciences), 9/67 to 6/69, 9/71 to 6/72
 Committee on Programs, Curricula and Courses (PCC - college of Arts and Science), 9/71 to 6/72
 Committee on Research of the Faculty Assembly, 9/71 to 6/72
 Student-Faculty Advisory Committee to the Bookstore, 6/69 to 6/71
 College Park Senate, 1/74 to 6/77, 9/80 to present
 College Park Senate Executive Committee, 9/74 to 8/76, 9/81 to present
 College Park Senate Committee on Faculty Research, 9/71 to 6/72, Chairman, 6/74 to 6/77
 Graduate Council, 1/74 to 6/75, 6/76 to 6/79
 Academic Council, Division of Behavioral and Social Sciences, 6/73 to present
 Graduate School Ad Hoc committee on Graduate Student Service Appointments, 9/70 to 6/71
 Graduate School Ad Hoc Committee on Graduate Admissions, 10/73 to 6/75
 Graduate School Ad Hoc Committee on the Structure, role and Function of Graduate Education at the University of Maryland, 4/74 to 6/75
 Graduate School Ad Hoc Committee to Analyze the Governor's Commission (Rosenberg Committee) on Education, 6/75 to 10/75
 Graduate School, Committee on Academic Standards, 6/76 to 6/79
 Chancellor's Task Force for Reviewing Academic Resources and Reallocations, 9/75 to 6/76
 Division of Behavioral and Social Sciences Budget and Planning Committee, 10/78 to 7/81
 President's Advisory Committee on Graduate Education, 10/78 to present
 Chair, Graduate Faculty Subcommittee of President's Advisory Committee on Graduate Education, 10/78 to 9/80
 Chair, Search committee for Dean of Graduate Studies and Research, 11/79 to 5/80
 Chair, Division of Behavioral and Social Sciences Ad Hoc Committee on Teaching, 9/79 to 6/80, 9/81 to 6/83
 Chair, Internal Evaluation Committee of College of Business and Management, 9/80 to 1/82
 Chair, Internal Evaluation Committee of the Department of Hearing and Speech Sciences (9/83 to 1/84)
 Member, University Academic Planning Advisory Committee (9/83 to present)

Courses Taught at University of Maryland:

Undergraduate:

Introduction to Psychology
 Engineering Psychology and Training Models
 Survey of Industrial Psychology

Graduate:

Introduction to Industrial and Organizational Psychology
Training Procedures and Evaluation in Organizational Settings
Seminar in Performance Theory
Seminar in Industrial Psychology
Seminar in Environmental Psychology