

INSTITUTE OF
BEHAVIORAL RESEARCH - IBR

TEXAS CHRISTIAN UNIVERSITY

ANNUAL REPORT
1980

personality social psychology environmental psychology
psychophysiology human ecology epidemiology of drug use,
alcohol use, and mental illness field surveys population
research family planning research drug abuse, alcoholism,
and mental health research evaluation of prevention and
treatment for drug abuse, alcoholism, and mental illness
organizational research personnel research management
studies behavior modification social and health program
evaluation multivariate methods in behavioral research
aviation and aerospace psychology

GOALS

The IBR is a university-based research and consulting organization dedicated to the advancement of scientific knowledge and to the application of the systematic knowledge and methods of the behavioral sciences to human affairs, through laboratory and field research, graduate education, and scientific publication. These goals implement a major principle endorsed by Texas Christian University, that organized research is one of its principal functions, having value both to society and to the educational program of the University.

ORGANIZATIONAL
STATUS

The IBR was established formally in 1962 as an independent research unit of the University, to provide needed administration and programmatic direction for the behavioral sciences. Since it was founded it has experienced steady growth in staff, budget, and program scope. While providing research opportunities for students and faculty, it has also acquired a full-time staff of research scientists and specialists. In order to recognize the status of these IBR scientific staff members, the University, in 1972, authorized the IBR to include in its budget a number of ranked faculty positions and provided procedures for these faculty members also to serve as teachers and as members of the graduate faculty. More recently, IBR faculty members have become eligible for tenure.

PROGRAM

The IBR research program is supported principally by research grants and contracts, from Federal agencies and industry, in the areas of personality, social and environmental psychology, psychophysiology, epidemiology and human ecology, organizational and personnel research, social and health program evaluation, and population research. In recent years, the largest single programs have involved research in the areas of drug abuse, epidemiology and treatment evaluation, and industrial-organizational problems.

FACILITIES

Located on the East Campus of Texas Christian University, the IBR occupies three buildings with 15,000 square feet of office and laboratory space. Special features include the IBR LIBRARY with over 3,500 books, 50 journals, and an extensive file of Air Force, Army, Navy, NASA and other technical report series, the document and computer files of the DRUG ABUSE EPIDEMIOLOGY DATA CENTER, a comprehensive COMPUTER PROGRAM LIBRARY, and extensive DOCUMENT STORAGE facilities. The IBR utilizes the Sigma 9 computer system at the TCU Computer Center, both in batch mode and in real time, by means of remote terminals.

PUBLICATIONS

IBR reports, a technical report series based on staff and student research completed under grants, contracts, and independent study, are distributed to a regular mailing list and in most cases are condensed for formal publication. TCU PRESS-BEHAVIORAL SCIENCE MONOGRAPH SERIES, founded in 1971, published irregularly as single volumes, includes substantive studies as well as methodological and theoretical contributions to the behavioral sciences. The IBR also publishes MULTIVARIATE BEHAVIORAL RESEARCH, a quarterly journal of the Society for Multivariate Experimental Psychology.

IBR POLICIES

Information for IBR Fellows

A major feature of the wide-ranging program of the Institute of Behavioral Research (IBR) is its emphasis on graduate education in conjunction with the various studies in progress. Some of the IBR faculty teach formal courses in the psychology, sociology, and business programs at Texas Christian University, but all assume research training responsibilities in conjunction with ongoing funded research projects. Within this framework, major emphasis is placed on the development of research skills in students, using an apprenticeship model -- as the student progresses from the first to the fourth year of training, the level of responsibility increases in terms of research planning, conducting data analyses, and writing research reports for publication.

The research training program of the IBR is based on high standards of performance that apply to academic work as well as research development. Progress of each student is reviewed twice a year (at the end of the Fall and Spring Semesters) by the IBR Fellow Committee and includes review of formal grade reports as well as written evaluations submitted to IBR Faculty and staff supervisors. The Committee makes recommendations to the Director of the IBR and to the student involved as special action or information is needed. These recommendations involve academic progress, development of research skills, and amounts of fellowship stipends, as described below.

Academic Progress. Although the principal involvement of the IBR with Research Fellows is often viewed in terms of training in research methodology and application, academic counseling and supervision of students by IBR Faculty is an essential part of the training program and is therefore emphasized. Academic counseling with faculty supervisors is important for addressing student career objectives and insuring academic preparation for IBR research assignments. For this reason, each student is expected to consult with his research supervisor prior to enrolling in courses. In addition to appropriate course selections (generally 9 graduate credit hours per semester), grade reports are expected to average B+ or above. Continuation of an IBR Fellowship is contingent in part upon satisfactory academic work and definite progress toward an advanced degree.

Development of Research Skills. The IBR research training program involves a combination of formal coursework and work experience generally on funded research projects. Within the limitations of the nature and requirements of

research projects in progress at any given time, research assignments are made on a basis that seeks to optimize the match between student interests and abilities. As experience and research capabilities grow, student assignments are adjusted accordingly. Efforts are made to introduce students to all phases of research, from problem definition, planning and design, to data gathering, management, and analysis, to the writing and ultimate publication of research reports.

Evaluations are normally requested semi-annually by the IBR Fellow Committee to be provided by each student's immediate supervisor(s). These evaluations are open to the student and each supervisor is encouraged to review his or her evaluation with the student. Together with the evaluations based on academic progress, this information is used by the Committee for recommendations concerning continuation or special provisions regarding fellowships.

Amount of Fellowship Stipends. In 1980, IBR Fellowship stipends were \$6,000 per year, plus cost of tuition (costs of student fees were not included). These stipends were consistent with a uniform rate adopted by the University.

<u>Level</u>	<u>Qualifications</u>
1st year	Beginning or first year graduate student with less than 15 graduate credit hours.
2nd year	Completion of a research Masters degree, or 18 or more graduate credit hours with relevant research experience. Must have completed graduate level coursework or its equivalent in Statistics and Experimental Design. Students must demonstrate satisfactory progress toward either the Masters or Ph.D. degree.
3rd year	Completion of two years of graduate study toward the Ph.D. degree. The student will be expected to have completed the Masters degree (or its equivalent or 30 hours of graduate study). This includes successful completion of preliminary evaluations in the relevant academic department.
4th year	Fourth or final year of graduate study. The student will have passed his qualifying examinations and be admitted to candidacy for the Ph.D. degree.

The current IBR Fellow Committee consisted of the following members:

Dr. L.R. James
Dr. G.W. Joe
Dr. D.D. Simpson, Chairman.

Faculty Promotion Policy

1. The IBR is a university-based research institute which, by policy, includes students as members of its research staff, and regards training and development of research personnel as part of its mission of contributing to knowledge and understanding of human behavior in modern society. As a consequence, IBR faculty members are expected to be scholars, scientists, writers, lecturers, consultants, and teachers, with substantive as well as methodological expertise in the behavioral sciences. IBR faculty promotion policy is subject to the general policies of Texas Christian University.

2. At the entry level (Assistant Professor), these qualities are judged by perusal of educational records, research reports and publications, letters of recommendation, and interviews in which the entire faculty participate and vote. For evidence of growth, the faculty use various sources of information, as follows:

research: proposals prepared and funded, seminar reports, technical reports, publications accepted by reputable journals, invitations to lecture or report, published reviews, requests for advice and consultation, and the like;

scholarship: theoretical and research papers, references to and citation of work, reputation among colleagues, peers, and students, comments on and reviews of published work, influence on the thought, research, and practices of an area or field, invitations to present colloquia, lectures, and to participate in symposia, and the like;

teaching: quality of students attracted and taught by the professor; scope, level, and reputation of courses, innovative methods and content, and special projects. IBR faculty members are all expected to qualify as members of the graduate faculty and to teach in a preceptor relationship with students, who function as graduate assistants, and to direct independent research as well as dissertations and theses. Individual, one-to-one teaching is one of the most important teaching functions for all IBR faculty, although some faculty members have contracts to teach formal courses in one or another department or school.

3. As academicians and professionals and as members of the TCU and IBR faculty communities, IBR faculty members are expected to assume responsibility for participating in professional and service activities to facilitate institutional operations and relationships with the lay and professional constituencies to which they and the University have allegiances. This is a means of enhancing individual and institutional influence and also of promoting the goals of the institution through such individual effort. As a result, IBR faculty are expected to participate as members of faculty committees, to attend University functions as representatives of the IBR, to provide speaking, advisory, and consulting services in the Fort Worth community, to participate in the meetings of the appropriate regional and national associations, to present papers, and to communicate with scholars, scientists, and others in matters related to their academic and professional roles.

4. In evaluating faculty members' performance, evidence of growth in productivity and influence is taken into consideration. Influence includes service activities as well as scholarly and scientific work. No one is expected to excel in all aspects equally, and indeed the responsibilities of IBR faculty members vary to an extent that they differ in opportunities to excel in all aspects during any particular year. However, taking duties, opportunities, and particular situations fully into account, recommendations for promotion to Associate Professor will generally reflect strong evidence of growth from the entry level to a senior level of performance such that the individual can be considered as definitely launched on a significant career with full expectation that interests, areas of specialization and special expertise, and proficiencies demonstrated during the first four or five post-doctoral years will materialize into full fruition, recognition, and accomplishment. Recommendations for Full Professor will be made when the evidence indicates that such career expectations have been largely realized.

IBR FACULTY

- S.B. Sells Research Professor and Director
Ph.D. (Psychology). Columbia University, 1936.
Interactional theory, environmental psychology, personality and social, stress, organizational behavior, industrial and aerospace psychology, drug abuse and alcoholism treatment evaluation and epidemiology, multivariate research
- Robert G. Demaree Professor of Psychology and Professor in the IBR
Ph.D. (Psychology), University of Illinois 1950.
Drug abuse evaluation research, drug abuse and health problems, epidemiology, personality research, psychometrics, measurement theory, mathematical modeling, computer simulation, multivariate and mathematical psychology
- Steven G. Cole Associate Professor of Psychology and Associate Professor in the IBR
Ph.D. (Psychology), Michigan State University, 1970.
Social psychology, conflict and conflict resolution, drug abuse treatment taxonomy, alcoholism treatment research, family planning and population research, community psychology
- Lawrence R. James Professor in the IBR
Ph.D. (Psychology) University of Utah, 1970.
Industrial and organizational psychology, multivariate methods, measurement theory, causal analysis, leadership, motivation, climate and organizational development
- George W. Joe Associate Professor in the IBR
Ed.D. (Research Design) University of Georgia, 1969.
Multivariate and mathematical psychology, measurement theory, drug abuse treatment evaluation research, community health epidemiology and evaluation research

D. Dwayne Simpson	<p>Professor in the IBR Ph.D. (Psychology) Texas Christian University, 1970. Drug abuse treatment evaluation research, design, taxonomy of drug abuse patterns, post-treatment followup studies, management information systems, psychophysiology, illness behavior, respiration, smoking</p>
Roderick Crandall	<p>Associate Professor in the IBR Ph.D. (Psychology) University of Michigan, 1974. Group and interpersonal phenomena, applied social psychology, leisure, environment, quality of life and organizations, professional and methodological issues - measurement, reviewing procedures and ethics</p>
LaVerne D. Knezek	<p>Associate Professor in the IBR Ph.D. (Education and Business Administration) North Texas State University, 1972. Epidemiology of drug abuse, computerized information systems, educational planning research, personnel management, regional planning, career planning</p>
Jack M. Greener	<p>Assistant Professor in the IBR Ph.D. (Psychology) University of Houston, 1975. Industrial and organizational psychology, personnel selection, measurement theory, computer simulation, leadership, motivation</p>

RESEARCH STAFF

B. Krishna Singh, Ph.D.	Research Sociologist
John Hater, Ph.D.	Research Psychologist
Richard Hudiburg, Ph.D.	Research Analyst
Evan D. Stackfleth, Ph.D.	Research Psychologist
L. James Savage, M.A., Ph.D.	Research Psychologist
David Arno, B.A.*	Research Assistant
Sherry Bracy, M.A.*	Data Analyst
John Garland, Ph.D.	Research Analyst
Janice F. Neman, M.A.	Research Associate
Leslie James, B.A.	Research Assistant

DAEDAC STAFF

Annette Z. Main, M.L.S.	Acquisitions Librarian
Kathryn Crawford, M.S.L.S.	Acquisitions Librarian
Guelma Hopkins, M.S.	Information Specialist
Audrey Vanderhoof, M.A.T.	Information Specialist
Linda D. Scherer, M.P.H.	Retrieval Specialist
Marianne Babitch, M.L.S.	Retrieval Specialist
Jeannie G. Boatler, Ph.D.	Translator/Abstractor
Elizabeth Felt, M.A.	Programmer Analyst
Urmil Minocha, Ph.D.	Research Scientist
Patti L. Mathews, A.A.	Programmer
Helen Bernardez, M.S.	Statistical Abstractor
Teresa Burleson, B.A.	Statistical Abstractor
Carolyn Crowley, B.A.	Statistical Abstractor
Vicki Hicks, M.A.	Statistical Abstractor
Maureen Hockenberger, B.A.	Statistical Abstractor
Betty James, M.A.	Statistical Abstractor
Carol Morton, B.S.	Statistical Abstractor
Betty Pegram, M.A.	Statistical Abstractor
Margaret Rouse, Ph.D.	Statistical Abstractor
Rhonda Wells, B.A.	Statistical Abstractor
Karen M. Kroh	Data Technician
Robin Reger, B.A.	Editorial Assistant

RESEARCH ADMINISTRATION

Anne Olsen, B.A.	Research Administrator
Janet O. White, B.S.	Tape Librarian

GRADUATE FELLOWS

Walter S. Booth, IV, M.A.*	Graduate Research Fellow
John Bruni, M.A.*	Graduate Research Fellow
Bennett Fletcher, M.A.*	Graduate Research Fellow
Thomas Hilton, M.S., Ph.D.	Graduate Research Fellow
Alvin Jones, M.A., Ph.D.	Graduate Research Fellow
Wayne E. K. Lehman, B.A.*	Graduate Research Fellow
Paul Nail, M.S.*	Graduate Research Fellow
Frank Shanahan, M.A.*	Graduate Research Fellow
Marion Young, M.A.*	Graduate Research Fellow

* Doctoral Candidate

ADMINISTRATIVE STAFF

Janice Fox	IBR Administrative Officer
Mary Louise Long	Executive Secretary
Louise McQuade	Senior Secretary
Nancy Bruce	Editorial Assistant, MBR
	IBR Librarian
Patricia Covert	Senior Secretary

COMPUTATIONAL STAFF

Dennis M. Irons*	Programmer
Laura Serratt	Programmer

CLERICAL AND SUPPORT STAFF

Nina Burton	Secretary, Data Entry Operator
Wally Colia	Secretary
Bobbie Cornish	Secretary
Betty Hammack	Data Entry Operator/Assistant Acquisition Librarian
Jeanneane Huey	Data Entry Operator
Pamela Jackson	Statistical Clerk
Ava Lewis	Data Entry Operator
Martha Pagliuca	Secretary
Lori Payne	Clerical Assistant
Margaret Ruede	Clerk Typist
Barbara Savak	Mag Card Machine Operator
Kay Walstad	Data Entry Operator

* Doctoral Candidate

Consultants, 1980

John C. Ball, Ph.D. Professor, Dept. of Psychiatry, Temple University	DAEDAC Advisory Committee
Sidney Cohen, Ph.D. Clinical Professor of Psychiatry, Neuropsychiatric Institute, University of California at Los Angeles	DAEDAC Advisory Committee
Richard L. Gorsuch, Ph.D. Professor, Graduate School of Social Work, University of Texas at Arlington	Research Consultant
Edward R. Hammock, Chairman New York State Board of Paroles, New York	DAEDAC Advisory Committee
Richard Jessor, Ph.D. Institute of Behavioral Science, University of Colorado	Research Consultant
Lloyd D. Johnston, Ph.D. Study Director, Institute for Social Research, University of Michigan	DAEDAC Advisory Committee
James F. Maddux, M.D. University of Texas Health Science Center, San Antonio, Texas	Research Consultant
Robert Pandina, Ph.D. Associate Research Professor, Center of Alcohol Studies, Rutgers University	DAEDAC Advisory Committee
Alex Richman, M.D. Abbie J. Lane Memorial Hospital Halifax, Nova Scotia	DAEDAC Advisory Committee
Maria Elena Sanchez Institute of Social Research, University of Michigan	DAEDAC Advisory Committee
Leonard Savitz, Ph.D. Dept. of Sociology, Temple University	DAEDAC Advisory Committee

Edward Senay, M.D.
Department of Psychiatry,
University of Chicago

DAEDAC Advisory
Committee

John Wackwitz, Ph.D.
Denver, Colorado

Research Consultant

RESEARCH FUNDING SUMMARY - 1980

Substance Abuse Research

National Institute on Drug Abuse - Grants	\$260,708.
--	------------

National Institute on Drug Abuse - Contracts	644,402.
---	----------

Texas Department of Community Affairs - Contract	61,829.
---	---------

\$966,939.

Industrial-Organizational Research Contracts

Office of Naval Research	47,555.
--------------------------	---------

Federal Aviation Admini- stration	28,224.
--------------------------------------	---------

American Airlines	47,172.
-------------------	---------

Trans World Airlines	11,311.
----------------------	---------

Federal Express Corporation	12,016.
-----------------------------	---------

Aerospace Medical Associates	4,955.
------------------------------	--------

Eastern Airlines	3,978.
------------------	--------

155,211.

<u>Total</u>	\$1,122,140.
--------------	--------------

FUNDED GRANTS AND CONTRACTS - 1980

	1980 <u>Expenditures</u>
SUBSTANCE ABUSE	
<u>National Institute on Drug Abuse (NIDA)</u>	
GRANTS	
Posttreatment Follow-up of DARP Cohorts 1, 2, and 3	\$209,732.
Grant No. H81-DA-01598	
Initiated August, 1974	
Total Award to Date: \$3,684,726.	
Social Factors and Drug Abuse in an Urban Population	26,570.
Grant No. DA-01765	
Initiated September, 1977	
Total Award: \$508,760.	
Treatment for Drug Abuse - Use of an Integrating Model	24,406.
Grant No. DA-01931	
Initiated July, 1977	
Total Award: \$340,381.	
CONTRACTS	
Drug Abuse Epidemiology Data Center (DAEDAC)	256,237.
Contract No. 271-79-5801	
June 22, 1979 to June 28, 1980	
Total Award: \$526,161.	
Maintenance of the DAEDAC Data Base	306,856.
Contract No. 271-80-5905	
June 29, 1980 to June 28, 1981	
Total Award: \$714,892.	
CODAP and NDATUS Assessment Project	11,115.
Contract No. 271-78-5701	
September 28, 1978 to March 31, 1980	
Total Award: \$198,966.	
Drug Abuse Indicator Methodology Project	70,194.
Contract No. 271-79-4710	
September 28, 1979 to March 31, 1981	
Total Award: \$85,479.	
<u>Texas Department of Community Affairs (TDCA)</u>	
Evaluation of Drug Abuse Prevention in Texas	61,829.
Contract No. 00030303979	
February 1, 1980 to May 31, 1981	
Total Award: \$99,694.	

INDUSTRIAL-ORGANIZATIONAL RESEARCH

CONTRACTS

U.S. Navy, Office of Naval Research

Leadership-Organizational Effectiveness in
the U.S. Navy 47,555.
Contract No. N00014-80-C-0315
March 1, 1980 to February 38, 1981
Total Award: \$91,045.

Federal Aviation Administration

Air Traffic Controller Training Environments 28,224.
Contract No. LGR-8-0262
September 19, 1978 to April 19, 1980
Total Award: \$83,436.

American Airlines, Inc.

Continuation of Research on Development and
Validation of a Pilot Selection Test Battery 47,172.
continuing since January, 1965

Trans World Airlines

Continuation of Research on Development and
Validation of a Pilot Selection Test Battery 11,311.
continuing since September, 1978

Federal Express Corporation

Development and Validation of a Pilot Selection
Test Battery 12,016.
Initiated October, 1980

Aerospace Medical Associates (Dallas, Texas)
(for Texas International Airlines)

Testing and Assessment of Pilot Candidates 4,955.
continuing since March, 1979

Eastern Airlines, Inc.

Computer Programmer Selection Validation Study 3,978.
June, 1980 to December, 1980

Total \$1,122,150.

IBR RESEARCH PROGRAM - 1980

SUBSTANCE ABUSE

National Institute on Drug Abuse (NIDA)

GRANTS

Posttreatment Follow-up Study of DARP Cohorts 1, 2, and 3.
Grant No. H81-01598 (Initiated 1974)
Total Award: \$3,684,726. 1980 Expenditure: \$209,732.
Investigators: Dr. Simpson, Dr. Savage, Dr. Demaree,
Dr. Joe, Dr. Singh.

DARP is an acronym for the initial letters of the Drug Abuse Reporting Program, employed under predecessor contracts between 1969 and 1974 to collect longitudinal, prospective data on clients admitted to federally supported drug treatment centers in order to establish a data base for the evaluation of treatment effectiveness. The total file includes admission (background and baseline) information and bimonthly status (treatment received and outcome) reports on approximately 44,000 clients at 52 widely dispersed centers throughout the United States and in Puerto Rico. These were divided, for purposes of the research, into three admission cohorts (1. 1969-1971, 2. 1971-1972, and 3. 1972-1973). Previous reports have described research through 1977, involving development of the data files, evaluation of the four treatment modalities included (methadone maintenance - MM, therapeutic community - TC, outpatient drug-free - DF, and detoxification - DT), and correlative studies, based mainly on outcomes during the period that clients were in treatment, as well as the initial analyses of post-DARP follow-up data for samples from cohorts 1 and 2.

The research completed during 1980 was based primarily on follow-up data collected on the Cohort 3 sample. The major contribution was IBR Report No. 80-8, a replication of the Cohort 1-2 evaluation study, by Simpson, Savage, and Sells, which has also been published by the National Technical Information Service, No. NIDA/80/05. A complete list of 1980 research based on the Cohort 3 follow-up sample is as follows:

Hater, J.J. and Simpson, D.D. Use of community services by opioid addicts, March, 1980, 28 p., IBR Report No. 80-7. Also to be published in Journal of Psychedelic Drugs, in press.

- Hater, J.J., Singh, B.K., and Simpson, D.D. Family and religion variables in relation to posttreatment follow-up outcomes among opioid addicts, May, 1980, 31 p., IBR Report No. 80-10.
- Joe, G.W., Singh, B.K., Lehman, W., Simpson, D.D., and Sells, S.B. Differences in client posttreatment outcomes among drug abuse treatment programs, October, 1980, 27 p., IBR Report No. 80-12.
- Savage, L.J. and Simpson, D.D. Posttreatment outcomes of sex and ethnic groups treated in methadone maintenance during 1969-1972. Journal of Pyschedelic Drugs, 1980, 12(1), 55-64.
- Savage, L.J. and Simpson, D.D. Drug use and crime during a four year posttreatment follow-up. American Journal of Drug and Alcohol Abuse, in press.
- Simpson, D.D. Employment among opioid addicts during a four year follow-up. American Journal of Drug and Alcohol Abuse, in press.
- Simpson, D.D. Follow-up outcomes and length of time spent in treatment for drug abuse, May, 1980, 28 p., IBR Report No. 80-9. Also to be published in Archives of General Psychiatry, in press.
- Simpson, D.D., Crandall, R.P., Savage, L.J., and Pavia-Krueger, E. Leisure of opioid addicts at posttreatment follow-up, January, 1980, 28 p., IBR Report No. 80-7. NIDA Services Research Report No. 80-1040, 1980. Also to be published in Journal of Counseling Psychology, in press.
- Simpson, D.D. and Lloyd, M.R. Alcohol use by opioid addicts during a four year follow-up after drug abuse treatment. Journal of Studies on Alcohol, in press.
- Simpson, D.D. and Savage, L.J. Client types in different drug abuse treatments: Comparisons of follow-up outcomes, September, 1980, 47 p., IBR Report No. 80-11.
- Simpson, D.D. and Savage, L.J. Drug abuse treatment readmissions and outcomes: Three year follow-up of DARP patients. Archives of General Psychiatry, 1980, 37, 896-901.
- Simpson, D.D. and Savage, L.J. Treatment re-entry and outcomes of opioid addicts during a four year follow-up after drug abuse treatment in the United States. United Nations Bulletin on Narcotics, in press.

Simpson, D.D., Savage, L.J., and Joe, G.W. Treatment histories of clients treated for drug abuse. American Journal of Drug and Alcohol Abuse, 1980, 7(2), 127-140.

Simpson, D.D., Savage, L.J., and Sells, S.B. Evaluation of outcomes in the first year after drug abuse treatment: A replication study based on 1972-1973 DARP admissions, May, 1980, 99 p., IBR Report No. 80-8. (National Technical Institute Service No. NIDA/80/05). Springfield, VI: U.S. Department of Commerce, 1980.

Social Factors and Drug Abuse in an Urban Population.
Grant No. DA-01765 (Initiated 1977)
Total Award: \$508,760. 1980 Expenditure: \$26,570.
Investigators: Dr. Demaree, Ms. Neman, Ms. McCown.

This study was undertaken to develop procedures for estimation of drug use prevalence in urban settings, based on sociodemographic data and selected indicators. The research involved sociodemographic descriptions and indicator rates for census tracts (and neighborhood areas), as predictors, and prevalence estimates derived from a school survey and a household survey in the city of Dallas, as dependent variables. These were described in detail in the 1979 Report.

The following reports of this project were made in 1980:

Neman, J.F., McCown, M.Y., and Demaree, R.G. The prevalence, correlates and perceived consequences of drug use by youth in Dallas, Texas, IBR Report No. 80-2.

Demaree, R.G. and Fletcher, B.W. "A Structural Analysis of Illicit Drug Use." Presented at the Annual meeting of the Society of Multivariate Experimental Psychology, Fort Worth, Texas, November 6-8, 1980.

Treatment for Drug Abuse - Use of an Integrating Model.
Grant No. DA-01931 (Initiated 1977)
Total Award: \$340,381. 1980 Expenditure: \$24,406.
Investigators: Dr. James, Dr. Crandall, Dr. Hater,
Mr. Bruni, Mr. Hilton.

This study was initiated in 1977 and most of the work completed in 1979. Additional analyses were continued in 1980, in preparation for further reports, which are to appear in 1981.

CONTRACTS

Drug Abuse Epidemiology Data Center (DAEDAC).
Contract No. 271-79-5801 (June 22, 1979 to June 28, 1980)
Total Award: \$526,161. 1980 Expenditure: \$256,237.
Maintenance of the DAEDAC Data Base.
Contract No. 271-80-5905 (June 29, 1980 to June 28, 1981)
Total Award: \$714,892. 1980 Expenditure: \$306,856.
Staff: Dr. Knezek, Dr. Minocha, Ms. Hopkins, Ms. Vanderhoof, Ms. Scherer.

This unique research archive for drug abuse data and literature was initiated in 1973 as a research grant by the Special Action Office for Drug Abuse Programs (SAODAP) of the Executive Office of the President. In 1975 the grant was transferred to NIDA and continued under sponsorship of the Division of Research until 1979, when for administrative reasons it was converted to a contract under the Division of Scientific and Program Information. The 1979 contract included the work covered by NIDA Contract No. 271-78-1304 (May 29, 1979 - May 31, 1979), Secondary Analysis of the DAEDAC Data Base, which provided for DAEDAC services to NIDA, that were not covered under the grant (see discussion under Contract No. 1304.). The 1979 contract was issued on a "sole source" basis with the understanding that the continuing contract, after its expiration, would be awarded on an open bid, competitive basis, as required by new procurement regulations. Effective June 29, 1980, the new (competitive) award was made to the IBR on an expanded basis and for a three-year period.

Previously, DAEDAC had been responsible for (1) preservation of original data of surveys, research studies, and record files that have utility for further (secondary)

analyses relevant to the understanding of the initiation, continuation, discontinuation of use and associated problems in the use and abuse of illicit drugs; (2) compilation of a file of the significant research literature in this area; (3) acquisition, classification, coding for retrieval, and maintenance in separate computer files, of significant original data sets, with associated documentation, and research literature; (4) provision of data sets to members of the research community for further, secondary research and analysis; and (5) provision of bibliographic and analytic services, research, and information reports, based on the file holdings, to NIDA, state and local governments, university groups, and other persons and organizations, charging only the marginal costs of work involved. All original data sets in the DAEDAC files are protected with respect to confidentiality of information; new files are screened carefully prior to acceptance in the computer file to assure that names, addresses, and other personal identification of subjects have been removed and that the anonymity of persons whose records are included is protected.

DAEDAC is an exemplification of the trend in recent years to establish research archives in important areas of human affairs and knowledge in order to maximize the research and informational potential of data collected and to support further valuable secondary and meta-analytic research for which the data are suited. Such research includes studies reaching across individual data sets, enabling analyses of trends over time, comparison of different population samples, regions, and the like, secondary research investigating problems that the data can address that were not studied by the original authors, and studies combining samples from different data sets that enable investigation of problems that the component sets were not appropriate to analyze. By supporting this activity, NIDA has enabled the creation of a data resource that has served its own research and informational needs and also provided a source of data that has been called upon increasingly by university, government, and other organizations concerned with significant informational needs in the drug abuse area. Because of the innovative coding and retrieval systems developed by the DAEDAC staff, data maintenance and retrieval procedures provide rapid response, comprehensive and accurate statistical and summary information, and authoritative coverage of a wide range of topics.

Because of the impressive document file compiled by DAEDAC and the supporting research library of IBR, related to its major drug abuse research, the IBR was selected to receive the library of the Drug Abuse Council which closed

out its operations in the Spring of 1979. This library, considered one of the most comprehensive collections of literature on drug abuse in existence, is now an operational component of the IBR. In the 1979-80 contract, the scope of DAEDAC was expanded to include data files and literature on misuse and abuse of over-the-counter and prescription drugs and also to full international status. These expanded areas of coverage and scope involved considerable retrospective search and this, along with additional funds to process a backlog of literature and files previously acquired but not completely coded and otherwise processed for retrieval, were provided in the 1980-81 budget. During 1980 over 3,402 publications were acquired and approved for inclusion in the literature file and studies were processed. Forty-five original data sets were also acquired and added to the Original Data File.

At the end of 1980 the DAEDAC bibliography of research reports concerning the social science aspects of licit and illicit drug use contained citations of 8,920 studies maintained in the archive. The classified bibliography, updated monthly, is available on a subscription basis. Of those research reports held by DAEDAC, 5,397 had been entered in the computerized retrieval system by the end of the year. Original (machine-readable) data files available for dissemination to research investigators and administrators totaled 147. DAEDAC offers research services to NIDA and other users on a service bureau basis; this includes literature review and synthesis and data analysis of any files for specific purposes.

Papers and publications in 1980 by IBR staff members, based on the DAEDAC files, include the following:

Crawford, K.A. "DAEDAC Acquisition of Unpublished Studies." Meeting of Substance Abuse Librarians and Information Specialists (SALIS), Houston, Texas, February 18-19, 1980.

Knezek, L.D. "Drug Abuse Epidemiology Data Center." Panel on Drug Research at the Institute of Behavioral Research, TCU. Texas State Drug Abuse Advisory Council Meeting, TCU, Fort Worth, Texas, June, 1980.

Knezek, L.D., Minocha, U., and Scherer, L. "Drug Abuse Epidemiology Data Center." Fort Worth Independent School District, Task Force on Alcohol and Drug Concerns Meeting, Fort Worth, Texas, September 9, 1980.

Minocha, U. Presented a Seminar on "Secondary Research and the Feasibility of Using DAEDAC Services for Secondary Analysis." North Texas State University, Denton, Texas, April 23, 1980.

Scherer, L.D. "A Review of the Literature Comparing Treatment for Heroin and Non-Heroin Drug Abuse." Prepared for the National Institute on Drug Abuse, February, 1980.

Scherer, L.D. "Women and Drugs: A Literature Update." Prepared for the National Institute on Drug Abuse, April, 1980.

Scherer, L.D. "Drugs and the Elderly: Psychological, Personality and Social Factors." Prepared for the National Institute on Drug Abuse, June, 1980.

Scherer, L.D. "Social, Psychological and Personality Factors and Adolescent Drug Abuse." Prepared for the National Institute on Drug Abuse, October, 1980.

Singh, B.K. and Knezek, L.D. Characteristics and behavioral treatment outcomes of older patients in drug treatment programs. Accepted by Journal of Psychiatric Treatment and Evaluation.

Sells, S.B. "The Drug Abuse Model." Planning Conference on Documentation in Clinical Anthropology, University of Illinois at Urbana-Champaign, Urbana, Illinois, July 22-24, 1980. To be published as Chapter 5, Part V, in Anthropology and Health Services in American Society, Edited by Demetri B. Shimkin and Peggy Golde, University of Illinois Press.

CODAP and NDATUS Assessment Project - CANAP

Contract No. 271-78-5701 (September 28, 1978 to March 31, 1980)

Total Award: \$198,966. 1980 Expenditure: \$11,115.

Investigators: Dr. Joe, Dr. Singh, Dr. Garland, Mr. Lehman, Ms. Cole, Mr. Jones.

This complex and innovative study utilized archival data from two national statistical report series maintained by NIDA and census data to investigate neighborhood, client, and clinic characteristics associated with treatment clinic effectiveness and client outcomes in treatment. Although the source data were designed for management monitoring purposes and not for evaluation research, the data were analyzed following a research model and contributed important new knowledge of clinical as well as management importance.

The CANAP project was initiated by the NIDA Division of Scientific and Program Information (DSPI), which is responsible for the national data systems, CODAP (Client Oriented DATA Acquisition Program) and NDATUS (National Drug Abuse Treatment Utilization Survey). CODAP is completed at admission and at discharge on every person (client) admitted to treatment by every treatment unit (clinic) providing drug abuse treatment under federal funding and includes Veterans Administration and Bureau of Prisons treatment programs as well as programs funded directly by NIDA. The CODAP reports were initiated in 1974 to provide management data and policy-relevant information to NIDA and the states. NDATUS is an annual survey of treatment clinics in the United States developed as a management instrument to estimate treatment capacity, in terms of client "slots" available and utilized, and contains information on the types of treatment provided, facilities, location, staffing, and other relevant items. Having decided (1) that it needed information on clinic effectiveness and clinic characteristics (within treatment modalities) associated with clinic effectiveness, and (2) that such information might be developed through research using CODAP and NDATUS data, DSPI outlined its requirements and issued a call for competitive proposals to pursue this research. The result of the competition was the award of this contract to IBR.

Two parallel studies were carried out, one in which the treatment clinic was the unit of analysis, and the other in which the individual client was the unit of analysis. The treatment modalities of major concern were drug free-outpatient (DFO), drug free-residential (DFR), and methadone maintenance-outpatient (MM). By restricting the data to the first half of 1977, it was possible to obtain reasonably complete treatment data for the then latest available six-month admission cohort of 114,080 clients, admitted to 1860 clinics. For the final analyses, there were 1,124 clinics with 90,524 clients that met several requirements used in defining the final sample: at least minimal size, located in the 50 states, and in both the CODAP and NDATUS files. The clinic study, for which CODAP were aggregated was a pioneering investigation since virtually all previous research on treatment effectiveness had been at the client level. The comparison of aggregate-clinic data and client data was highly instructive and the clinic data yielded new information that could not have been obtained through the study of individual clients.

Outcome measures of treatment effectiveness, at both aggregate and individual levels, were indices of retention - time in treatment and type of discharge (unfavorable outcomes were indicated by the categories quit or expelled),

which had been shown in prior research to be highly correlated with measures of posttreatment effectiveness. Five categories of predictors, representing socioecologic characteristics of neighborhoods from which clients were drawn, sociodemographic and deviance measures for clients, and clinic attributes and clinic staffs and services were related to outcomes by path analysis methods. In the client study, an additional predictor category - individual client characteristics, was added.

Among the major results of the project were the following: (1) The path models utilized in both studies were found to be useful in explaining retention and indicated numerous factors that could be interpreted as causes of treatment effectiveness, (2) Although not anticipated, one of the most important discoveries was that the DFO treatment modality included two distinct treatments - one oriented to the treatment of opiate addicts, and the other to nonopiate users. This development reflects the changing nature of drug abuse treatment and was not perceived in earlier studies involving 1969 to 1973 admissions, although substantial numbers of opiate users were seen in DFO-type clinics in those years, (3) Clinic per capita expenditure, which was assumed to be positively related to outcomes, had a significant negative relationship to retention, but a strong positive relationship to turnover (a measure constructed by dividing the number of admissions during a period by the number of authorized client "slots"). This implied that clinic funds were spent on processing clients in and out of treatment and pointed to turnover as an effective measure to monitor clinic effectiveness, (4) Client characteristics, such as criminality and opiate use, were important determiners of outcome, in agreement with other research.

1980 publications and reports of Project CANAP included the following:

Joe, G.W., Singh, B.K., Garland, J., Lehman, W., and Sells, S.B. Community, clinic, and individual factors in client retention in drug abuse treatment programs, March, 1980, 106 p., IBR Report No. 80-3.

Singh, B.K., Joe, G.W., Lehman, W., Garland, J., and Sells, S.B. A descriptive overview of treatment modalities in federally funded drug abuse treatment programs, March, 1980, 32p., IBR Report No. 80-4.

Joe, G.W., Singh, B.K., and Sells, S.B. Project CANAP management report, March, 1980, 21 p., IBR Report No. 80-5.

- Singh, B.K., Joe, G.W., and Cole, E.A. Behavioral outcomes of clients in drug abuse treatment: An assessment of the literature, March, 1980, 59 p., IBR Report No. 80-6.
- Singh, B.K. and Joe, G.W. Substance abuse and arrests: Variations in pretreatment arrests of clients in drug treatment programs. Criminology, in press.
- Joe, G.W., Seder, I.P., Singh, B.K., and Sells, S.B. "Analysis of Clinic Turnover Rates and Reasons for Discharge: Implications for Management." Annual meeting of the National Alcohol and Drug Coalition, Washington, D.C., September 14-18, 1980.
- Joe, G.W. and Lehman, W. "Application of a Path Type Model to Aggregate Data from Drug Abuse Treatment Clinics." Annual Meeting of the Society of Multivariate Experimental Psychology, Fort Worth, Texas, November 6-8, 1980.
- Jones, A. "Relative Effectiveness of Outpatient and Inpatient Combined Treatment for Alcohol and Drug Abusers." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.

Drug Abuse Indicator Methodology Project.
Contract No. 271-79-4710 (September 28, 1979 to March 31, 1981)
Total Award: \$85,479. 1980 Expenditure: \$70,194.
Investigators: Dr. Demaree, Mr. Fletcher, Dr. Hudiburg, Dr. Joe, Dr. Singh, Dr. Stackfleth.

This project was established to aid the Forecasting Branch of the Division of Data and Information Development, NIDA, in its responsibilities for prevalence estimation of drug use in the United States. The research plan is to obtain suitable data and compute estimates of the prevalence of use of particular drugs in metropolitan areas by a two-stage process of (1) calculating a drug problem index, based on indicators, that is statistics concerning relevant variables, such as admissions to drug treatment, drug related arrests, overdose deaths, and hospital emergency room visits, and (2) converting the problem index to a prevalence estimate by regression on estimates of prevalence that were made independently of the problem index.

Five specific studies are involved, to produce prevalence estimation methodologies for heroin, cocaine, and other drugs. In these studies, the unit of analysis is the Standard Metropolitan Statistical Area (SMSA). The methodology investigated in the present project is modeled after a Heroin Problem Index, that was developed by Person, Retka, and Woodward (DHEW Publication No. 76-367, 1976 and 77-439, 1977), based on 24 SMSA's covered by a reporting program for hospital emergency rooms and medical examiners known as the Drug Abuse Warning Network (DAWN). The present project is intended to extend the methodology both by including additional SMSA's and by including additional indicator variables in the prevalence estimation process.

The initial start-up efforts during the last quarter of 1979, were occupied with (a) procurement and review of published reports and documents containing indicator data; (b) extraction and processing of relevant data; and, (c) inquiries concerning sources of data for independent estimates of the prevalence of heroin and cocaine use during the 1976-78 period.

Data have been obtained from the Drug Enforcement Administration, on arrests, pharmacy thefts, and drug price and purity; from the National Centers for Disease Control on serum hepatitis cases; and from the Bureau of the Census on population characteristics of SMSA's. Contacts with members of NIDA's Community Correspondents Group concerning sources of data for estimating prevalence have been made and are viewed as being of the utmost importance to the project. The members of this group are not only closely attuned to the drug picture in the urban areas they represent, but are highly regarded professionally and constitute perhaps the best source of advice and constructive comment available for the present project. This project was extended, at the end of 1980, with additional tasks. Research completed during the 1980 includes the following reports:

Fletcher, B.W. and Demaree, R.G. A measurement model based upon multiple indicators, with an application to the estimation of the neighborhood prevalence of cocaine use, December, 1980, 35 p., IBR Report No. 80-13.

Demaree, R.G. "Estimating the Size of Drug User Populations." National Workshop on Research Methodology and Criminal Justice Program Evaluation, sponsored by the National Institute of Justice, Department of Justice, Baltimore, Maryland, March 17-19, 1980.

Demaree, R.G., Hudiburg, R.A., and Fletcher, B.W. "Estimates of the Prevalence of Heroin Use in 24 Metropolitan Areas and Nationwide, 1976-79." Semi-annual meeting of the Community Correspondents Group, sponsored by the National Institute on Drug Abuse, Arlington, Virginia, June 4-6, 1980.

Texas Department of Community Affairs (TDCA)

Evaluation of Drug Abuse Prevention in Texas.

Contract No. 00030303979 (February 1, 1980 to May 31, 1981)

Total Award: \$99,694. 1980 Expenditure: \$61,829.

Investigators: Dr. Simpson, Dr. Hater, Ms. Bracy.

This project involved the design and conduct of a survey of prevention services in the State of Texas, encompassing all projects supported by the TDCA. The survey was undertaken to assess existing programs and advise the Drug Abuse Prevention Division of TDCA on issues concerning program evaluation in the State and to make recommendations for future plans. The results of the survey were reported in IBR Report No. 80-18:

Hater, J.J. and Simpson, D.D. Drug abuse prevention in Texas: Survey of services and program evaluation. Final Report to the Texas Department of Community Affairs.

Subsequently a proposed five-year plan for the development of a Prevention Management and Evaluation System (PMES) and additional reports of the present contract were submitted to TDCA. The PMES was presented as a basis for continuing research on prevention programs in Texas.

INDUSTRIAL-ORGANIZATIONAL RESEARCH

CONTRACTS

U.S. Navy, Office of Naval Research

Leadership-Organizational Effectiveness in the U.S. Navy.

Contract No. N00014-80-C-0315 (March 1, 1980 to February 28, 1981)

Total Award: \$91,045. 1980 Expenditure: \$47,555.

Investigators: Dr. James, Dr. Hater, Dr. Demaree.

This three-year contract involves research on supervisory training (in leadership techniques) for lower levels of management in the Navy, using a model suggested in organizational climate research on Naval organizations in just-completed analyses under the IBR's predecessor ONR contract. In Year 1 (March, 1980 to February, 1981) the task addressed involved comparison of "cross-situational consistency" with "situational specificity" of (a) behaviors of leaders toward each of their subordinates, (b) subordinates' perceptions of the behaviors of their leaders, and (c) subordinates' affective and behavioral reactions to leadership. Subsequent causal studies projected for the following two years will take into account the outcome of this strategic investigation. Research accomplished during 1980 included instrument development, negotiations with Navy field commands for sample selection and administration. The field administration to 365 Navy managers, ranging from Second Class Petty Officers (E-5) through Commanders (O-5) aboard four aircraft carriers was completed during the first quarter of 1981. Progress on this project has been unaffected by the transfer of Dr. James to the Georgia Institute of Technology. He remains as Principal Investigator with a subcontract of the project from TCU to GIT, and with cooperation by Dr. Sells and Dr. Demaree on substantive aspects of the research.

Publications attributable to this project in 1980 include:

James, L.R. and Sells, S.B. Chapter 18 Psychological Climate: Theoretical Perspectives and Empirical Research. In David Magnusson (Ed.) Toward a Psychology of Situations: An Interactional Perspective, Lawrence Erlbaum Associates, Inc., in press.

James, L.R., Demaree, R.G., and Hater, J.J. A statistical rationale for relating situational variables and individual differences. Organizational Behavior and Human Performance, 1980, 25, 354-364.

Federal Aviation Administration

Air Traffic Controller Training Environments.

Contract No. LGR-8-0262 (September, 1978 to April, 1980)

Total Award: \$83,436. 1980 Expenditure: \$28,224.

Investigators: Dr. James, Dr. Hater, Mr. Irons, Mr. Nail, Mr. Shanahan.

At the request of the Federal Aviation Administration (FAA), this study was undertaken to ascertain whether the Air Traffic Control (ATCS) Training Program provided the same opportunity for all students, irrespective of minority status or sex. Of particular concern was the identification of environment factors that might assist in explaining the proportionately higher failure rate among females and minorities in the ATCS Training Program. More specifically, the study was designed to investigate differences in the perceived training environment among subgroups of trainees defined by sex and minority-majority status in relation to attitudes (e.g., satisfaction), living conditions during training, personality measures (e.g., self-esteem, achievement motivation, alienation, and internal-external locus of control), and performance in training. During the initial period of this study, in 1978, major effort was devoted to reviews of literature on educational climate, sex differences, race differences, and other studies of air traffic control specialists. Members of the staff interviewed administrators, instructors, and students from the ATCS Training Program and FAA officials in Washington. The information gained from the literature reviews and interviews was utilized in preparation of data collection instruments.

During 1979 data collection instruments were developed and field tested, after review by FAA representatives in Washington and at the FAA Academy in Oklahoma City, data were collected on ongoing classes at the Academy, and data analysis was initiated. The study was completed during the first quarter of 1980 and is described in IBR Report No. 80-19, listed below.

The substantive results of the study were that, in general, the ATCS Training Program provided essentially the same opportunity for accomplishment to all students, irrespective of minority status or sex. High failure rates among minorities and women were attributed to other factors not addressed here. Despite the absence of discriminatory environmental factors in the program, recommendations were made with respect to a number of psychological climate variables related to training outcomes for all trainees, such as fairness and objectivity of instructor assessment

of laboratory problems, sensitivity of administrators to student problems and needs, general work overload and pressure on students to perform (which was considered excessive in a training environment), and the relation of Phase I indoctrination to preparation for Academy training.

James, L.R., Hater, J.J., Shanahan, F.M., Bruni, J.R., Irons, D.M., and Sells, S.B. Identification of perceived environmental factors associated with success and satisfaction in the air traffic control specialist training program (Report to Federal Aviation Administration). Fort Worth, TX: Texas Christian University, Institute of Behavioral Research, 1980, IBR Report No. 80-19.

<u>Airline Pilot Selection Research</u>	<u>1980 expenditure</u>
American Airlines (continuing, since 1975)	\$47,172.
Trans World Airlines (continuing, since 1978)	11,311.
Federal Express Corporation (initiated in 1980)	12,016.
Aerospace Medical Associates, Dallas Texas (for Texas International Airlines, continuing, since 1978)	4,955.
Investigators: Dr. Greener, Mr. Arno, Mr. Booth.	

The IBR has been involved in airline pilot selection since the early 1960's, when a major study was carried out for Eastern Airlines. Dr. Sells has consulted with American, United, Eastern, and other airlines regularly during the intervening years. The current studies for American Airlines, Trans World Airlines, and Federal Express have involved full-scale test-battery development and validation and the American study has involved other phases, described below. The testing for Texas International will eventually permit a validation study, but this has progressed on a smaller scale.

American Airlines - Validation Research

In March 1980 a major validation study was completed for two samples of pilots. One sample consisted of 325 hires tested in 1977-1978; the other sample consisted of 586 hires tested in 1978-1979. The data for these samples were

used to cross-validate a preliminary predictor composite developed in an earlier sample and also to obtain initial validation data for new predictor instruments introduced into the battery since the earlier validation studies. Additional research in 1980 focused on the development of a new end-of-probation evaluation form, a controlled inter-rater reliability study, and the design of a study for the validation of the test battery against first officer upgrade criteria.

American Airlines - Related Studies

Minority testing. Through the cooperation of the Organization of Black Airline Pilots (OBAP), the IBR staff administered the American Airlines selection battery to volunteer members of this organization during meetings in Nashville, San Francisco and New York City. Through 1979, data had been collected on 35 black pilots. Analyses to investigate the "fairness" in the test battery were conducted in 1980 and a final report is due to be completed in early 1981.

Concurrent testing. A special project, involving the testing of AAL captains and first officers who volunteered to participate, was initiated in 1978. The major purposes of this project were to obtain normative data on the test battery, to investigate the effects of age and experience on certain variables, and to provide a comparison group for the minority group analyses. During 1979, IBR staff members visited nine major AAL locations and tested 255 pilots (153 captains, 87 first officers, 15 flight engineers). Analysis of these data in conjunction with the minority group was completed in 1980 and a final report is due to be completed in early 1981.

Trans World Airlines

Applicant testing began in June, 1978 with a provisional test battery assembled for this purpose while at the same time research efforts were directed toward the development of an improved test battery for TWA and specific procedures to be used in training and on-the-line to evaluate the performance of flight engineers (pilots) during their probationary year. A revised pilot selection test battery was installed in April 1979, after 94 candidates out of 591 who had been administered the original test battery had been hired. An additional 300 applicants were tested with the revised battery and 91 additional pilots were hired before the testing program was interrupted in July 1979, when recruiting of new pilots was halted by the company. Validation analyses on the sample of 94 pilots hired who had taken

the original battery resulted in the development of a provisional predictor composite for operational use. A follow-up validation study completed in 1980 on the latter pilot sample (91) provided cross-validation support for the original predictor composite.

Federal Express Corporation

A full-scale test battery development and validation project for pilot selection was initiated in October 1980. The primary research efforts during 1980 focused on conducting a thorough job analysis of the pilot positions (pilot, copilot, flight engineer) at Federal Express to determine the similarities of duties and job requirements between Federal Express and the passenger carrying airlines as well as the unique requirements inherent to the Federal Express package delivery business. Research continues on the development of the test battery and performance evaluation system with a concurrent validation study planned for 1981.

Texas International Airlines

A testing program for the selection of pilots for Texas International Airlines was introduced in 1978 in cooperation with Aeromedical Associates of Dallas, who conduct the psychological and medical evaluations for Texas International. This program has a small applicant flow and is expected to continue for several years before sufficient data are available to allow for a formal validation study.

Other Airline Personnel Selection Research

Computer Program Validation Study.

Eastern Airlines (June-December, 1980)

1980 Expenditure: \$3,978.

Investigators: Dr. Greener, Mr. Booth.

This study was undertaken at the request of Eastern Airlines to determine the validity of a commercially available standardized computer programmer aptitude battery for EAL programmers. A concurrent validation design with a sample of 100 EAL programmers yielded significant validities and a recommendation for operational use of the test battery in selection of programmers.

The following publications in 1980 relate to the airline studies:

- Greener, J.M. American Airlines pilot selection studies: New hire validation (1979-80), March, 1980, 76 p., IBR Report No. 80-14.
- Greener, J.M. Trans World Airlines pilot selection studies: New hire validation (1979-80), April, 1980, 50 p., IBR Report No. 80-15.
- Booth, W.S. A comparison of TWA and AA test batteries using a common sample (271 Sample), June, 1980, 25 p., IBR Report No. 80-16.
- Greener, J.M., Booth, W.S., and Sells, S.B. Eastern Airlines computer programmer validation study, December, 1980, 27 p., IBR Report No. 80-17.

OTHER RESEARCH AND PAPERS BY IBR STAFF

- Boatler, J. The genetical demography of a rural Polish immigrant community in Texas. Ph.D. Dissertation, Department of Anthropology, University of Texas, Austin, Texas, December, 1980.
- Boatler, J. "The Historical Demography of the Polish Community of Chappell Hill, Texas." Meeting of the Polish American Congress of Texas, Fort Worth, Texas, November 7-9, 1980.
- Cole, E.A. "Combined vs. Separate Treatment in Inpatient/Residential Settings." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Cole, S.G. "The Combined Treatment of Alcohol and Drug Abusers: An Introduction." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Cole, S.G., Cole, E.A., Lehman, W., and Jones, A. The combined treatment of drug and alcohol abusers: An overview. The Journal of Drug Issues, in press.
- Gobel, J.B., Cole, S.G., Hornick, C., and Buesseler, J.A. Reenlistment and non-reenlistment in an Army reserve medical unit. Military Medicine, in press.

- Greener, J.M. and Osburn, H.G. Accuracy of corrections for restriction in range due to explicit selection in heteroscedastic and nonlinear distributions. Educational and Psychological Measurement, 1980, 40, 337-346.
- Lehman, W.E. "Attitudes of Combined Treatment Staff Toward Drug and Alcohol Clients." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Savage, L.J. Evaluation research using Log-Linear Analysis of Contingency Tables. Dissertation, Psychology Department, Texas Christian University, Fort Worth, Texas, May, 1980.
- Savage, L.J. "Log-linear Models of Change on Categorical Variables." Annual Meeting of the Society for Multivariate Experimental Psychology, Fort Worth, Texas November, 1980.
- Sells, S.B. "Issues Related to the Development of a National Substance-Abuse Management Information System." National Conference of the Canadian Addictions Foundation, Montreal, Canada, August 11-14, 1980.
- Sells, S.B. "Management Strategies to Increase Organizational Effectiveness." Distinguished Lecture Series: Management in Action, The Management Institute, University of Southern Maine, Portland, Maine, October 30, 1980.
- Watterson, O.M., Joe, G.W., Cole, S.G., and Sells, S.B. Impression management and attitudes toward marihuana use. Multivariate Behavioral Research, 1980, Vol. 15, 139-156.

MEETINGS AND CONFERENCES ATTENDED

- Boatler, J. Workshop: "Matter over Mind: The Pharmacology of Psychoactive Drugs." Sponsored by Tarrant Council on Alcoholism and Drug Abuse, Fort Worth, Texas, June 7, 1980.
- Crawford, K.A. Meeting of Substance Librarians and Information Specialists (SALIS), Houston, Texas, February 18-19, 1980.
- Demaree, R.G. Annual meeting of Society for Multivariate Experimental Psychology, Fort Worth, Texas. November, 1980.

- Fletcher, B.W. Annual meeting of Society for Multivariate Experimental Psychology, Fort Worth, Texas. November, 1980.
- Joe, G.W. Annual meeting of Society for Multivariate Experimental Psychology, Fort Worth, Texas. November, 1980.
- Knezek, L.D. Workshop on Alcohol Information Retrieval System via the Cybernet Network System, Control Data Corporation, sponsored by DAEDAC. Colleen Prezlock and Jane Armstrong of Rutgers Center of Alcohol Studies demonstrated the system at TCU, February 20, 1980.
- Knezek, L.D. "Project Planning and Control in Libraries, A Management Workshop." The University of Texas at Austin, Division of Continuing Education. Austin, Texas, March 27-28, 1980.
- Knezek, L.D. "Women's Educational Equity Grant Writing Workshop." Far West Laboratory for Educational Research and Development, San Francisco, California. Held in Houston, Texas, March 31 - April 2, 1980.
- Knezek, L.D. Workshop: "Care and Feeding of Machine-Readable Data Files," IASSIST. Washington, D.C., May 1, 1980.
- Knezek, L.D. Annual Conference, International Association for Social Science Information Service and Technology (IASSISI). "International Perspectives on Statistical Data for the Social Sciences: Policy, Technology, and Management." Washington, D.C., May 2-4, 1980.
- Knezek, L.D. National Information Conference and Exposition, NICE (IV). Washington, D.C., May 29, 1980.
- Knezek, L.D. Chaired meeting of Advisory Committee for the Drug Abuse Epidemiology Data Center (DAEDAC), Washington, D.C., May 30, 1980.
- Knezek, L.D. "Health Manpower Conference, Issues for the '80's." Texas Area 5 Health Systems Agency, Inc. Irving, Texas, September 26-27, 1980.
- Lehman, W.E. Annual meeting of Society for Multivariate Experimental Psychology, Fort Worth, Texas, November, 1980.
- Minocha, U. Workshop: "Perspectives in Drug Abuse and its prevention," Women and Prescription Drug Abuse Prevention Project of Methodist Hospitals of Dallas, Inc., Dallas, Texas, April 25, 1980.

- Minocha, U. "Health Fair," Dallas, Texas, April 25, 1980.
Represented DAEDAC by displaying informative material
on DAEDAC, its resources and services available to the
community.
- Minocha, U. Black Task Force on Alcoholism, Fort Worth,
Texas, August, 1980. Participated, as a discussant, in
a workshop on developing effective educational and
preventive programs on drug use/abuse in the local
school systems.
- Savage, L.J. Annual meeting of Society for Multivariate Ex-
perimental Psychology, Fort Worth, Texas, November, 1980.
- Sells, S.B. Planning Conference on Documentation in Clinical
Anthropology, University of Illinois, Urbana, July, 1980.
- Sells, S.B. Canadian Addictions Foundation, Montreal,
August, 1980.
- Sells, S.B. Annual meeting of the Society for Multivariate
Experimental Psychology, Fort Worth, Texas, November,
1980.
- Simpson, D.D. Fifth International Conference on Prevention
of Substance Abuse, San Antonio, Texas, December 8-11,
1980.
- Vanderhoof, A. Joint Conference of the Association of In-
formation and Dissemination Centers (ASIDIC) and Na-
tional Federation of Abstracting and Indexing Services
(NFAIS) "New Technology in the 1980's." March 4-6,
1980, Arlington, Virginia.

TCU MANAGEMENT SEMINAR

The TCU Management Seminar is conducted annually for one week in June on the TCU campus. Dr. Sells was co-founder of the Seminar with the late Dr. Ike Harrison, former Dean of the M.J. Neeley School of Business and has continued as Director since Dr. Harrison's death in 1972.

The Seminar is a behavioral-science oriented program designed to assist corporate executives in understanding the principles of effective management of personnel and corporate resources. All problems are approached from the viewpoint of the chief executive officer of the corporation and his needs to work effectively with heads of operating and specialized units in the organization.

Its principal objective is to broaden the managerial perspective of the organizational executive through provocative presentations by selected faculty and small group discussions of significant concepts and new developments - political, social, economic, psychological, and technological - that bear on critical problems of managers. Equally important is the goal of fostering individual programs of self development and enrichment that the participants will continue in their own spheres after the seminar meetings are ended.

The seminar is limited to a small group and the schedule is designed to encourage problem-solving discussion and exchange of views among the experienced executives participating and the faculty leaders

This approach provides the executive a unique experience in constructive analysis of a wide range of significant contemporary management problems - in a group of peers - disengaged from the commitments of traditions, company policy, and immediate operating pressures. It is both a refresher and a look into the future guided by knowledgeable professional leaders.

The 1980 session was held during the week of June 8-14. The Seminar faculty and their respective topics were as follows:

S.B. Sells, Ph.D. (Seminar Director)	Motivation and Performance in the Organizational Environment
Wendell G. Schaeffer, Ph.D. Herman Brown Professor of Political Science Texas Christian University	Social Change and Urban Problems

Edgar H. Schollmaier
President
Alcon Laboratories

Viewpoint of a Corporation
President

Panel:
D. Owen Coons, M.D.
Aeromedical Associates
Locke Medical Building
S.B. Sells, Ph.D.

Executive Health, Satisfaction, and Fulfillment

Joe Lee Steele, Ph.D.
Professor of Statistics
Texas Christian University

Economics, Management Information Systems and Decision Processes

Panel:
John L. Wortham, Ph.D.
Professor of Economics
Texas Christian University
Stanley Reber, Ph.D.
Vice President-Economist
Texas American Bancshares

Economic Analysis for Management Planning

Quinn McKay, Ph.D.
Senior Vice President,
Human Resources Development
Skaggs Companies, Inc.

Ethical Problems and Approaches to their Resolutions

Stanley B. Block, Ph.D.
Professor of Finance
Texas Christian University

Financial Planning for the Corporation

Peter V. Vygantas, Ph.D.
Senior Vice President
Americana Hotels

Management of Personnel Relations, Labor-Management Relations

A unique feature of the Management Seminar is the Management Alumni Association, composed of leading corporate executives who have participated in the Program. The MAA holds several mid-year meetings, bringing distinguished speakers of national and international renown to address the membership and makes an annual award to an outstanding executive in memory of Ike Harrison. The 1980 officers were as follows:

President Elect: Alan Snodgrass
First United Bancorporation

President: Allen Cox
General Dynamics, Fort Worth

Secretary: Captain George Hof
American Airlines

Treasurer: Stan Reber
Fort Worth National Bank

Recipients of the Ike Harrison Award include:

1980 Jon Brumley, Southland Corporation

1979 Marvin Gearhart, Gearhart-Owen Industries, Inc.

1978 Bayard Friedman, Fort Worth National Bank

1977 John Justin, Justin Industries

1976 R.E. Adams, General Dynamics

1975 Lewis H. Bond, Texas American Bancshares
Richard L. Lowe, American Quasar Petroleum Co.

1974 Paul W. Mason, First National Bank

1973 O. Roy Stevenson, Texas American Bancshares
B.B. Hulsey, Jr., Texas Electric Service Co.

1972 Charles Tandy, Tandy Corporation

1971 W.C. Conner, Alcon Laboratories

VISITORS TO IBR

1980

January Dr. John Regazzi, Center of Alcohol Studies,
 Rutgers University.
 Dr. Robert Houston, Ms. Linda Salokas, and Dr.
 B.R. Boyles, American Airlines, D/FW Airport.
 Dr. Paul Seder, National Institute on Drug Abuse,
 Rockville, MD.
 Grady Pamplin, Control Data Corporation, Fort
 Worth.

February Celia Homans and Mary Jean Key, National Opinion
 Research Center, Chicago.
 Ann Johnston, Addiction Research Foundation,
 Toronto, Canada.
 Dr. James W. Carper and Ms. Paula Miller, CPI
 Associates, Washington, D.C.
 Dr. Kenneth Altshuler, Southwestern Medical School,
 Dallas.
 Ms. Colleen Prezlock and Ms. Jane Armstrong,
 Center of Alcohol Studies, Rutgers University.
 Robert Hopkins and Morten Hopkins, National Mort-
 gage Corporation of America, Dallas.

March Deena Watson and Don Zappone, Texas Department of
 Community Affairs, Austin.
 Andy Meredith and Mark Caruso, Federal Express
 Corporation, Memphis.
 Robert J. Robertson and Frederick Oeltjen, National
 Institute on Drug Abuse, Division of Community
 Assistance, Rockville, MD.

April Michael Langford, Research Director, United Way,
 Fort Worth.
 Bob Anderson, Jr., M.D., Corporate Director,
 Medical Services, TWA, Kansas City.

May Ron Norman, Commerce Mortgage, Fort Worth.
 Allen B. Cox, General Dynamics, Fort Worth.
 Charles Jobe, Gateway National Bank, Fort Worth.
 Alan Snodgrass, First United Bancorporation, Inc.,
 Fort Worth.
 Marillyn Baumler, Eastern Airlines, Miami.
 John Kimble, Continental National Bank, Fort Worth.
 Dr. Elbert Glover, TCU Kinesiological Studies
 Department, Fort Worth.
 Dr. Allen Henderson, Texas Wesleyan College, Fort
 Worth.

June Members of Governor Clements' Council on Drug Abuse: Susanne Brubaker, Beaumont Housing Authority, Beaumont; Diane Doran, Del Rio; Martin Garza, Drug Dependence Program of Bexar County, San Antonio; Roy Griffin, Texas Area 5 Health Systems Agency, Euless; Ralph Robinowitz, Ph.D., Dallas V.A. Hospital; Billy C. Roland, Ph.D., East Texas State University, Commerce; Lois Still, Genesis House, Pampa; Frankie Williams, M.D., State Hospital, Vernon; Monsignor Dermot Brosnan, Patrician Movement, San Antonio; Richard Spence, Texas Department of Community Affairs, Drug Abuse Prevention Division, Austin; Don Zappone, Texas Department of Community Affairs, Drug Abuse Prevention Division, Austin; and Deena Watson, Texas Department of Community Affairs, Drug Abuse Prevention Division, Austin.

Nancy Coleman, National Institute on Drug Abuse, Rockville, MD.

Dr. Peter Chapman, Capt. Peter MacKenzie, and Hal Conway, British Caledonian Airways, London.

July Celia Homans, National Opinion Research Corporation, Chicago.

Mr. Mike Wills and Ms. Belinda Hampton, Tarrant Council on Alcoholism and Drug Abuse, Fort Worth.

August D.O. Coons, M.D., Aeromedical Associates, Dallas.

Mr. Rob Scofield, Campus Ministry, TCU, Fort Worth.

Dennis Kenny, Clive Seal, and Steve Campbell, Federal Express Corporation, Memphis.

Gordon Gibson, M.D., Aeromedical Associates, Dallas.

September Stan Reber, Texas American Bancshares, Fort Worth.

Capt. George Hof, American Airlines, D/FW Airport.

November Jesse Flores, Youth Advocacy Program, Austin.

Martial Davoust, Office of Naval Research Resident Representative, Austin.

A.V. Causey, Kendavis Industries, Fort Worth.

Carl Peters, Marketing Information Data Systems, Dallas.

December Lori Beaman, Alan Carsrud, and Bob Helmreich, People Express Airlines, Dallas.

IBR TECHNICAL REPORTS

- 80-1 Simpson, D.D., Crandall, R.P., Savage, L.J., and Pavia-Krueger, E. Leisure of opioid addicts at posttreatment follow-up, January, 1980, 28 p.
- 80-2 Neman, J.F., McCown, M.Y., and Demaree, R.G. The prevalence correlates and perceived consequences of drug use by youth in Dallas, Texas,
- 80-3 Joe, G.W., Singh, B.K., Garland, J., Lehman, W., and Sells, S.B. Community, clinic, and individual factors in client retention in drug abuse treatment programs, March, 1980, 106 p.
- 80-4 Singh, B.K., Joe, G.W., Lehman, W., Garland, J., and Sells, S.B. A descriptive overview of treatment modalities in federally funded drug abuse treatment programs, March, 1980, 32 p.
- 80-5 Joe, G.W., Singh, B.K., and Sells, S.B. Project CANAP management report, March, 1980, 21 p.
- 80-6 Singh, B.K., Joe, G.W., and Cole, E.A. Behavioral outcomes of clients in drug abuse treatment: An assessment of the literature, March, 1980, 59 p.
- 80-7 Hater, J.J. and Simpson, D.D. Use of community services by opioid addicts, March, 1980, 28 p.
- 80-8 Simpson, D.D., Savage, L.J., and Sells, S.B. Evaluation of outcomes in the first year after drug abuse treatment: A replication study based on 1972-1973 DARP admissions, May, 1980, 99 p.
- 80-9 Simpson, D.D. Follow-up outcomes and length of time spent in treatment for drug abuse, May, 1980, 28 p.
- 80-10 Hater, J.J., Singh, B.K., and Simpson, D.D. Family and religion variables in relation to post-treatment follow-up outcomes among opioid addicts, May, 1980, 31 p.
- 80-11 Simpson, D.D. and Savage, L.J. Client types in different drug abuse treatments: Comparisons of follow-up outcomes, September, 1980, 47 p.
- 80-12 Joe, G.W., Singh, B.K., Lehman, W., Simpson, D.D., and Sells, S.B. Differences in client posttreatment outcomes among drug abuse treatment programs, October, 1980, 27 p.

- 80-13 Fletcher, B.W. and Demaree, R.G. A measurement model based upon multiple indicators, with an application to the estimation of the neighborhood prevalence of cocaine use, December, 1980, 35 p.
- 80-14 Greener, J.M. American Airlines pilot selection studies: New hire validation (1979-80), March, 1980, 76 p.
- 80-15 Greener, J.M. Trans World Airlines pilot selection studies: New hire validation (1979-80), April, 1980, 50 p.
- 80-16 Booth, W.S. A comparison of TWA and AA test batteries using a common sample (271 Sample), June, 1980, 25 p.
- 80-17 Greener, J.M., Booth, W.S., and Sells, S.B. Eastern Air Lines computer programmer validation study, December, 1980, 27 p.
- 80-18 Hater, J.J., and Simpson, D.D. Drug abuse prevention in Texas: Survey of services and program evaluation (Final Report to Texas Department of Community Affairs, Drug Abuse Prevention Division). Fort Worth, TX: Texas Christian University, Institute of Behavioral Research, 1980.
- 80-19 James, L.R., Hater, J.J., Shanahan, F.M., Bruni, J.R., Irons, D.M., and Sells, S.B. Identification of perceived environmental factors associated with success and satisfaction in the air traffic control specialist training program (Report to Federal Aviation Administration). Fort Worth, TX: Texas Christian University, Institute of Behavioral Research, 1980.

ARTICLES AND MONOGRAPHS

- Boatler, J. The genetical demography of a rural Polish immigrant community in Texas. Ph.D. Thesis, Austin, Texas, December, 1980.
- James, L.R. and Sells, S.B. Chapter 18 Psychological Climate: Theoretical Perspectives and Empirical Research. In David Magnusson (Ed.) Toward a Psychology of Situations: An Interactional Perspective, Lawrence Erlbaum Associates, Inc., in press.

- Greener, J.M. and Osburn, H.G. Accuracy of corrections for restriction in range due to explicit selection in heteroscedastic and nonlinear distributions. Educational and Psychological Measurement, 1980, 40, 337-346.
- James, L.R., Demaree, R.G., and Hater, J.J. A statistical rationale for relating situational variables and individual differences. Organizational Behavior and Human Performance, 1980, 25, 354-364.
- Savage, L.J. Evaluation research using Log-Linear Analysis of Contingency Tables. Dissertation, Psychology Department, Texas Christian University, Fort Worth, Texas, May, 1980.
- Savage, L.J. and Simpson, D.D. Posttreatment outcomes of sex and ethnic groups treated in methadone maintenance during 1969-1972. Journal of Psychedelic Drugs, 1980, 12(1), 55-64.
- Simpson, D.D., Crandall, R., Savage, L.J., and Pavia-Krueger, E. Leisure of opioid addicts at posttreatment followup. National Institute on Drug Abuse, Services Research Report No. 80-1040, 1980.
- Simpson, D.D. and Savage, L.J. Drug abuse treatment readmissions and outcomes: Three year follow-up of DARP patients. Archives of General Psychiatry, 1980, 37, 896-901.
- Simpson, D.D., Savage, L.J., and Joe, G.W. Treatment histories of clients treated for drug abuse. American Journal of Drug and Alcohol Abuse, 1980, 7(2), 127-140.
- Simpson, D.D., Savage, L.J., and Sells, S.B. Evaluations of outcomes in the first year after drug abuse treatment: A replication study based on 1972-1973 DARP admissions. (National Technical Information Service, No. NIDA/80/05). Springfield, Virginia: U.S. Department of Commerce, 1980.
- Singh, B.K. and Knezek, L.D. Characteristics and behavioral treatment outcomes of older patients in drug treatment programs. Accepted by Journal of Psychiatric Treatment and Evaluation.
- Watterson, O.M., Joe, G.W., Cole, S.G., and Sells, S.B. Impression management and attitudes toward marihuana use. Multivariate Behavioral Research, 1980, Vol. 15, 139-156.

ARTICLES AND MONOGRAPHS IN PRESS

- Cole, S.G., Cole, E.A., Lehman, W., and Jones, A. The combined treatment of drug and alcohol abusers: An overview. The Journal of Drug Issues, in press.
- Fletcher, B.W. and Demaree, R.G. A structural analysis of illicit drug use. Proceedings of the American Statistical Association, 1980, in press.
- Gobel, J.B., Cole, S.G., Hornick, C., and Buesseler, J.A. Reenlistment and non-reenlistment in an Army reserve medical unit. Military Medicine, in press.
- Hater, J.J. and Simpson, D.D. Use of community services by opioid addicts. Journal of Psychedelic Drugs, in press.
- Savage, L.J. and Simpson, D.D. Drug use and crime during a four year posttreatment follow-up. American Journal of Drug and Alcohol Abuse, in press.
- Simpson, D.D. Employment among opioid addicts during a four year follow-up. American Journal of Drug and Alcohol Abuse, in press.
- Simpson, D.D. Follow-up outcomes and length of time spent in treatment for drug abuse. Archives of General Psychiatry, in press.
- Simpson, D.D., Crandall, R., Savage, L.J., and Pavia-Krueger, E. Leisure of opioid addicts at posttreatment follow-up. Journal of Counseling Psychology, in press.
- Simpson, D.D. and Lloyd, M.R. Alcohol use by opioid addicts during a four year follow-up after drug abuse treatment. Journal of Studies on Alcohol, in press.
- Simpson, D.D. and Savage, L.J. Treatment re-entry and outcomes of opioid addicts during a four year follow-up after drug abuse treatment in the United States. United Nations Bulletin on Narcotics, in press.
- Singh, B.K. and Joe, G.W. Substance abuse and arrests: Variations in pretreatment arrests of clients in drug treatment programs. Criminology, in press.

PAPERS PRESENTED

- Boatler, J. "The Historical Demography of the Polish Community of Chappell Hill, Texas." Meeting of the Polish American Congress of Texas, Fort Worth, Texas, November 7-9, 1980.

- Cole, E.A. "Combined vs. Separate Treatment in Inpatient/Residential Settings." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Cole, S.G. "The Combined Treatment of Alcohol and Drug Abusers: An Introduction." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Crawford, K.A. "DAEDAC Acquisition of Unpublished Studies." Meeting of Substance Abuse Librarians and Information Specialists (SALIS), Houston, Texas, February 18-19, 1980.
- Demaree, R.G. "Estimating the Size of Drug User Populations." National Workshop on Research Methodology and Criminal Justice Program Evaluation, sponsored by the National Institute of Justice, Department of Justice, Baltimore, Maryland, March 17-19, 1980.
- Demaree, R.G. "Estimates of the Prevalence of Heroin Use Nationwide and in 24 Metropolitan Areas." Semi-annual meeting of the Community Correspondents Groups, sponsored by the National Institute on Drug Abuse, Arlington, Virginia, June 4-6, 1980.
- Demaree, R.G. "A Structural Analysis of Illicit Drug Use." Annual meeting of the Society of Multivariate Experimental Psychology, Fort Worth, Texas, November 6-8, 1980.
- Fletcher, B.W. and Demaree, R.G. "An APL Function to Aid in Design Matrix Evaluation," and "A Structural Analysis of Illicit Drug Use." Annual meeting of the American Statistical Association, Houston, Texas, August 11-12, 1980.
- Joe, G.W., Seder, I.P., Singh, B.K., and Sells, S.B. "Analysis of Clinic Turnover Rates and Reasons for Discharge: Implications for Management." Annual meeting of the National Alcohol and Drug Coalition, Washington, D.C., September 14-18, 1980.
- Joe, G.W. and Lehman, W. "Application of a Path Type Model to Aggregate Data from Drug Abuse Treatment Clinics." Annual Meeting of the Society of Multivariate Experimental Psychology, Fort Worth, Texas, November 6-8, 1980.
- Jones, A. "Relative Effectiveness of Outpatient and Inpatient Combined Treatment for Alcohol and Drug Abusers." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.

- Knezek, L.D. "Drug Abuse Epidemiology Data Center." Panel on Drug Research at the Institute of Behavioral Research, TCU. Texas State Drug Abuse Advisory Council Meeting, TCU, Fort Worth, Texas, June, 1980.
- Knezek, L.D., Minocha, U., and Scherer, L. "Drug Abuse Epidemiology Data Center." Fort Worth Independent School District, Task Force on Alcohol and Drug Concerns Meeting, Fort Worth, Texas, September 9, 1980.
- Lehman, W.E. "Attitudes of Combined Treatment Staff Toward Drug and Alcohol Clients." Southwestern Psychological Association Symposium, Oklahoma City, Oklahoma, April, 1980.
- Minocha, U. Presented a Seminar on "Secondary Research and the Feasibility of Using DAEDAC Services for Secondary Analysis." North Texas State University, Denton, Texas, April 23, 1980.
- Savage, L.J. "Log-linear Models of Change on Categorical Variables." Annual Meeting of the Society for Multivariate Experimental Psychology, Fort Worth, Texas, November, 1980.
- Sells, S.B. "Issues Related to the Development of a National Substance-Abuse Management Information System." National Conference of the Canadian Addictions Foundation, Montreal, Canada, August 11-14, 1980.
- Sells, S.B. "The Drug Abuse Model." Planning Conference on Documentation in Clinical Anthropology, University of Illinois at Urbana-Champaign, Urbana, Illinois, July 22-24, 1980.
- Sells, S.B. "Management Strategies to Increase Organizational Effectiveness." Distinguished Lecture Series: Management in Action, The Management Institute, University of Southern Maine, Portland, Maine, October 30, 1980.