

I N S T I T U T E O F B E H A V I O R A L R E S E A R C H

T E X A S C H R I S T I A N U N I V E R S I T Y

A N N U A L R E P O R T

1 9 7 4

personality social psychology environmental psychology psychophysiology  
epidemiology human ecology organizational research personnel research  
social and health program evaluation population research family planning  
research behavior modification drug abuse research evaluation of  
treatment for drug abuse field surveys management studies

## I B R 1 9 7 4

### 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 developing research program in 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.

### 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. Currently the largest single programs involve research in the areas of drug abuse, organizational behavior, and epidemiology.

## FACILITIES

Located on the East Campus of Texas Christian University, the IBR occupies 3 buildings with 12,000 square feet of office and laboratory space. Special features include the IBR LIBRARY with over 3500 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, the BIOMEDICAL RESEARCH LABORATORY, with recording equipment, analog-to-digital conversion equipment, special purpose computers, and extensive testing and experimental equipment, 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 three 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 houses the publication office of MULTIVARIATE BEHAVIORAL RESEARCH, a quarterly journal published through the TCU Press by the Society for Multivariate Experimental Psychology.

## SPONSORS OF FUNDED RESEARCH - 1974

### Federal Agencies

National Institute of Mental Health  
National Institute on Drug Abuse  
US Office of Education  
National Center for Health Statistics  
Family Planning Services, HEW, Region 6  
Office of Naval Research  
Special Action Office for Drug Abuse Prevention  
Executive Office of the President

### Industry

American Airlines, Inc.  
Eastern Airlines, Inc.  
Kaiser-Permanente Medical Care Program  
American Telephone & Telegraph Company  
First National Bank of Fort Worth  
Fort Worth National Bank

### Other Government, Community and Social Agencies

Tarrant County Hospital District  
North Texas Tuberculosis and Respiratory  
Disease Association  
Tarrant County Hospital District, Mental Health-Mental  
Retardation Center  
Federal Correctional Institution, Fort Worth  
National Council of the YMCA

## PROFESSIONAL STAFF DURING 1974

### IBR Faculty Members

S. B. Sells, Ph.D.	Research Professor and Director
R. G. Demaree, Ph.D.	Professor of Psychology and Professor, IBR
Richard Gorsuch, Ph.D.	Associate Professor, IBR
George W. Joe, Ed.D.	Associate Professor, IBR
D. Dwayne Simpson, Ph.D.	Associate Professor, IBR
Steven G. Cole, Ph.D.	Assistant Professor of Psychology and Assistant Professor, IBR
E. Alan Hartman, Ph.D.	Assistant Professor, IBR
Lawrence R. James, Ph.D.	Assistant Professor, IBR
Allan P. Jones, Ph.D.	Assistant Professor, IBR

### Affiliated Faculty Members

James R. Henley, Ph.D.	Assistant Professor of Sociology
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### Research Staff

Arthur K. Berliner, M.S.S.A.	Research Sociologist, IBR
Janice Neman, M.A.	Assistant Research Psychologist
Anne D. Olsen, B.A.	Assistant Research Psychologist
Marcia Glick, B.A.	Field Investigator
James E. Jones	Field Representative
Julie Lopez-Gomez, B.A.	Field Representative
Patti Schoenlank, B.A.	Field Representative

### Graduate Fellows and Assistants

David Aizenshtat	Graduate Research Fellow
David Arno	Graduate Research Fellow
John Bruni	Graduate Research Fellow
Mark Butler	Graduate Research Fellow
Betty Cole	Graduate Research Fellow
Karen Collins	Graduate Research Fellow
Arthur Covert	Graduate Research Fellow
Bill Curtis	Graduate Research Fellow
Bobby Gant	Graduate Research Fellow
Candyce Greer	Graduate Research Fellow
John Hater	Graduate Research Fellow
Kurt Helm	Graduate Research Fellow
Christopher Hornick	Graduate Research Fellow
Thomas Hammond	Graduate Research Fellow
Janet Jackson	Graduate Research Fellow
Kevin Karlson	Graduate Research Fellow
Michael Rainone	Graduate Research Fellow
Pat Riedesel	Graduate Research Fellow
Lessie Spindle	Graduate Research Fellow
Olive Watterson	Graduate Research Fellow

### Computational Staff

Charles R. Kee, B.S.	Manager
Donald S. Willis, M.A.	Assistant Manager
James E. Ray, B.B.A.	Data Processing Analyst
Kathlyn Bice, B.A.	Data Processing Analyst
David Deal, B.A.	Research Programmer
Garland Jones	Computer Services Coordinator
Jim Stikeleather	Programmer

### Administrative and Supporting Staff

Janice Fox	Administrative Officer
Dianne McNeese	Executive Secretary
Louise McQuade	Senior Secretary
Nancy Bruce	Editorial Assistant, MBR, IBR Librarian

### Research Support

Barbara Ayers	Editor, DARP
Marcia Butler	Research Assistant
Francis Castleberry	Editor, DARP
Linda Sheets	Secretary
Rebecca Sparks	Editor, DARP

### Clerical and Keypunch Staff

Patsy Andress	Keypunch Operator
Patricia Covert	Secretary
Rutholene Davis	Keypunch Operator
Faye Dennie	Keypunch Operator
Elizabeth Dodge	Research Assistant
Mary Hostvedt	Secretary, DARP, Family Planning
Pamela Jackson	Statistical Clerk
Carolyn Kelly	Clerk Typist/Clerk
Cynthia Kelly	Statistical Clerk
Virginia Lederer	Secretary
Diane Lochabay	Mag Card Machine Operator
Angela Lowe	Computer Tape Librarian
Judi Morton	Secretary
Sandra Rabinowitz	MT/ST Operator/Clerk Typist
Brenda Roden	Keypunch Operator Supervisor
Wanda Sherman	Keypunch Operator

### Undergraduate Assistants

Betty Lou Jones	Clerical Assistant
Kathleen Monahan	Clerical Assistant
Betty Wadsworth	Clerical Assistant

Consultants, 1974

O. Jim Adair, President Pacer Company	Consultant in Systems Programming
John C. Ball, Ph.D., Professor, Dept. of Psychiatry, Temple University	DAEDAC Advisory Committee
George R. Brooks, B. S. Systems Analyst, Pacer Company	Consultant in Systems Programming
Daniel Glaser, Ph.D., Professor of Sociology and Anthropology, University of Southern California	Research Consultant
Annette M. Green, Associate Administrator for Drug & Alcohol Program, Allegheny County MHMR Program	DAEDAC Advisory Committee
Edward R. Hammock, Deputy Commissioner, Dept. of Investigators, City of 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, Inst. for Social Research, University of Michigan	DAEDAC Advisory Committee
Charles B. Lawrence, Ph.D. Washington, D. C.	DAEDAC Statistical Consultant
James F. Maddux, M.D., University of Texas, Health Science Center, San Antonio, Texas	Research Consultant
Raul A. Munoz, Vice President, Estudios Sociales Y De Salud, Inc., Hato Rey, Puerto Rico	DAEDAC Advisory Committee
John O'Donnell, Ph.D., Professor, Dept. of Sociology, University of Kentucky	DAEDAC Advisory Committee
Carl Peters, B.S., Manager of Operations, Telpar, Inc.	Consultant in Systems Programming
Alex Richman, M.D., New York, New York	DAEDAC Advisory Committee

Consultants, 1974 - (Continued)

Leonard Savitz, Ph.D., Dept. of Sociology, Temple University	DAEDAC Advisory Committee
Edward Senay, M.D., Director, Illinois Drug Abuse Program	DAEDAC Advisory Committee
Douglas Spiegel, Ph.D., Professor, Dept. of Psychology, University of South Dakota	Research Consultant
Richard C. Stevens, Ph.D., Deputy Director of Research, New York State Drug Abuse Control Commission	Research Consultant



FUNDED RESEARCH. EXPENDITURES IN 1974.

DRUG ABUSE

Drug Abuse Reporting Program. File Maintenance Program Continuation of Contract No. HSM 42-69-6 (NIMH)	184,265.
Drug Abuse Reporting Program. Research on Evaluation of Treatment. Continuation of Contract No. HSM 42-72-132 (NIMH)	393,960.
Drug Abuse Epidemiology Data Center. Special Action Office for Drug Abuse Prevention. Executive Office of the President. (Grant No. DA4RG005)	171,101.
Post-treatment Followup of DARP Cohorts 1 and 2. Grant No. 1 H81-DA-01598-01 (NIDA)	75,800.

PERSONALITY

Critical Appraisal of Research in the Personality, Emotions, Motivation Domain. Continuation of OE Grant 2665 (USPE)	8,861.
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INDUSTRIAL AND ORGANIZATIONAL RESEARCH

Airline Organizational and Personnel Research (American Airlines, Eastern Airlines, T. J. Gazda Associates)	15,433.
Organizational Characteristics and Personnel Effectiveness in the Framework of Social System Analysis. (ONR) Contract No. N001-72-0179-0001) Office of Naval Research	103,453.
Organizational Climate and Management Studies (Kaiser Permanente, American Telephone and Telegraph, First of Fort Worth, Fort Worth National Bank)	30,602.

OTHER STUDIES

Evaluation of Mental Retardation Program (Tarrant County MH-MR Center)	7,871.
Evaluation of Tarrant County Family Planning Program. Continuation of Subcontract with Tarrant County Hospital District.	13,027.
Smoking Withdrawal Research. North Texas Tuberculosis and Respiratory Disease Association.	1,524.
Federal Correctional Institution, Research Traineeship	920.
YMCA Youth Values Project Evaluation	7,690.

Total \$1,015,577.

## IBR RESEARCH PROGRAM - 1974

### DRUG ABUSE RESEARCH

#### Drug Abuse Reporting Program (DARP)

(Contract No. HSM-42-69-6), NIMH

Period. January 1969 through October 1974

Total Award. \$1,009,215.00

1974 Expenditures. \$184,265.00

This national drug abuse data collection program, supported initially by NIMH and then by NIDA, was completed in 1974. It was started in June, 1969, as an unsolicited research project, following a pilot study funded under a previous grant. The DARP was conceived as a data base for research on the evaluation of treatment for drug abuse and at its initiation in June, 1969, included only six treatment programs. However, as the drug abuse problem in the United States accelerated, it was expanded to receive patient reports from over 50 treatment programs and to provide information for program management purposes in addition to the research. In May of 1972, the file maintenance and research functions were separated and funded under different projects (DARP file maintenance under continuation of HSM 42-69-6, and research on evaluation of treatment under HSM 42-72-132).

The DARP reporting of new admissions was discontinued on March 31, 1973 but Status Evaluation reports were continued for all patients then in treatment, for another year. At the time of discontinuation of new admissions, the file included a total of 43,931 patients. The reporting program involves a system for accounting for individual patients, prospectively and longitudinally, from admission to final termination (with provision for readmission at any time). This has been accomplished by means of two reporting forms, which were revised in October, 1971 (beginning of Report Period 15). The Admission Form, a background history, describes patient characteristics and is the basis for patient classification and baseline measures in the evaluative research. The bi-monthly Status Evaluation Form provides progress information on treatment delivered as well as on patient behavior during treatment in respect to employment, drug and alcohol abuse, family relations, illegal activities, arrests, and time in jail; it has been used both for classification of treatment and for the computation of during-treatment criterion measures for research.

Reports received were carefully checked by staff editors, key punched, and checked further by special computer programs for consistency and reasonableness of information before being entered into the computer file. The file was updated periodically with each period-increment of information and continually as information was received in response to correspondence resulting from the editing and checking procedures. Summary statistical reports were prepared for each period and on a semi-annual and annual basis. Beginning with period 19 (June, July, 1972) a Management by Exception Report was initiated which provided feedback information to the reporting agencies as well as to the Washington NIMH staff that enabled comparison of individual

agency performance with other agencies and with system averages, by age-race-sex patient groups.

The final report period for the DARP (Period No. 29) for patients admitted during February-March, 1973, ended on March 31, 1974. Between that date and October 31, 1974, overdue reports were received and the master file edited and completed. At that time, the total DARP file was transferred to the DARP evaluation research program, discussed next.

The key staff members have been Anne Olsen, Project Director, Marcia Glick, Barbara Ayers, and Frances Castleberry. Charles Kee and Ed Ray of the Computational Staff have provided continuing data processing expertise and support.

DARP-Based Research Program on the Evaluation of Treatment for Drug Abuse  
(Contract No. HSM-42-72-132), NIMH  
Period. April 16, 1972 to April, 1975  
Total Award. \$991,605.00  
1974 Expenditures. \$393,960.00

The research program on evaluation of treatment for drug abuse, based on on the DARP file, was established to investigate the overall effectiveness of various treatments represented among the agencies reporting for the various types of patients admitted to these treatments. Although the DARP file was initiated in June, 1969, it was not feasible for the formal research program to begin until the data had matured to the point that a full year's information on experience in treatment was available for a substantial number of patients. A preliminary analysis of the first years' admissions was completed during 1971 (Joe, Person, Sells, and Retka, 1972); this was based on a total sample of 3134 cases and was of major importance in providing background for the design of subsequent studies.

The year 1 admissions were combined with those of year 2 to form the first cohort for the major evaluative research effort; the remaining two cohorts were: 2 - the year 3 admissions, and 3 - the year 4 admissions. The total samples for the three cohorts were:

cohort 1 (years 1 & 2)	11,385
cohort 2 (year 3)	15,810
cohort 3 (year 4)	16,736
Total	43,931

The grand strategy of the research program conceptualized the evaluation problem as involving two stages: 1) during-treatment, and 2) post-treatment. The contract (HSM-42-72-132) under which this research has operated has funded only the during-treatment stage; a series of research reports based on studies of cohort 1 was summarized in the 1973 annual report and incorporated in 1974 in the two-volume Ballinger publication edited by Sells; a second series of reports, listed later in this Annual report, was completed in 1974, based on cohort 2. The cohort 3 during-treatment evaluation is scheduled for completion

in 1975. The proposals for post-treatment followup of samples of cohorts 1 and 2 were approved and funded in 1974 and this project was started on 1 August, 1974. Major reports on the during treatment research were presented at the National Drug Abuse Conference, in Chicago in March, 1974 (Chatham and Sells) and at a symposium at the American Psychological Association in New Orleans, in September (Sells, Demaree, Simpson, Joe, Gorsuch, Cole, James, and Spiegel); other DARP research papers were presented at the American Psychological Association by Olive Watterson and by Gary Long.

This research program has included taxonomic studies for patient classification (by demographic characteristics, background factors, and drug abuse patterns) and treatment classification, research on the construction of criterion measures, analytic studies of patient background and development, and treatment outcome evaluation in terms of retention in treatment, differential death rates and causes of death, and behavioral outcome (criterion measures), as well as special studies of substantive interest, such as the characteristics of readmitted patients and the relationships of alcohol and drug use.

The principal research staff in 1974 consisted of Professors Cole, Demaree, Gorsuch, James, Joe, Sells, Simpson, and Spiegel, on a consulting basis. Dr. Spiegel participated full time during the 1972-1973 academic year as a Visiting Professor, on leave from the University of South Dakota, and continues in a consultant capacity. He was replaced on the full time staff by Professor Gorsuch. Dr. James' participation was restricted to his research on treatment classification, begun initially in conjunction with Dr. Cole. Janice Neman collaborated with Dr. Demaree as a principal assistant in the criterion and path group studies. Marcia Glick acted in a similar capacity to Dr. Cole in the treatment classification research. Professor Norman Crowder participated as technical editor of the Ballinger Books. The Computational Staff, including Charles Kee, Michael Abbamonte, Donald Willis, Ed Ray, Kathlyn Bice, and David Deal with the assistance of consultants Jim Adair and George Brooks, deserve major credit for the successful completion of this research. The Research Fellows, including Olive Watterson, Gary Long, Mark Butler, Bill Curtis, and Tom Hammond, have proved to be outstanding aides to the respective study directors.

This research has been aided by the work of Mrs. Anne Olsen, project director of the DARP and administrative manager of the IBR drug abuse program.

#### Drug Abuse Epidemiology Data Center (DAEDAC)

(Grant No. DA4 RG008) Executive Office of the President, Special Action Office for Drug Abuse Prevention.

Period. 2 years, beginning November 15, 1973.

Total Award. \$252,730.00

1974 Expenditures. \$171,101.00

The DAEDAC is a federally supported, computerized data center at the IBR. DAEDAC was established with the following goals:

1. To create a comprehensive data file of nationally significant data

concerned with epidemiological and social science aspects of drug use and abuse.

2. To make such data available to members of the scientific community for possible further research analysis.

3. To compile significant information from these files and from public reports in order to provide answers to inquiries as well as a substantive information base for resolving questions of national policy concerning drug abuse.

The policies and procedures of the Center, developed for the use of contributors to and users of the file, are as follows:

The DAEDAC program will involve two files that will be available for scientific and general information used when the initial developmental phase is completed. These are 1) The Data File, and 2) The Aggregate File.

The Data File consists of a set of raw data files of surveys, evaluation studies, and other large-scale drug abuse data sources that have potential for secondary analyses related to the epidemiological purposes of the Center. For the first year of operation, the major emphasis will be on the acquisition of suitable files. Beginning around January, 1975 the holdings in this file will be published and procedures will be established for their use by the scientific community.

The Aggregate File represents sets of aggregate and summary data reported in the research literature and in statistical series that focus primarily on the major epidemiological aspects of drug abuse. When it reaches the initial stage of completion (also around January 1975) it will be available to scientific investigators and to administrative inquiries. Some responses will be channelled through the National Clearinghouse for Drug Abuse Information at the National Institute on Drug Abuse.

The files acquired are to be retained subject to the conditions of agreement concluded with contributors and subject to the following constraints.

Confidentiality of Data. In view of the research objectives of the Center, there is no need for identification of any individual respondents; at the same time the nature of this Center requires a major commitment to a policy of confidentiality of all data files. This is essential to the integrity of the Center and is the basis for its data organization and procedures. The Center policy is therefore to accomplish editing of data files prior to their accession and to follow procedures that will prevent disclosure of the identity or infringement on the privacy of any person for whom data are included in the files. All information that might identify the respondents from whom the data were gathered, such as names, social security numbers, and other unique identifiers will be removed and additional measures will be adopted to prevent identification by profile information.

Types of Files Included. Data acquired by the Center will be restricted primarily to files that are considered relevant to the epidemiology of drug abuse and that have national significance, alone or in combination with other

data, for questions of incidence, prevalence, morbidity and mortality. Such data will also be acceptable with regard to validity, reliability, completeness, sampling adequacy, and recency.

Arrangements with Contributors. Contributors are encouraged to specify a period of time (the length to be negotiated with DAEDAC) before their data will be made available to others, so their own data analyses may be completed.

Contributors are also asked to furnish information qualifying their data in terms of "soft" areas or other identified limitations. These will be called to the attention of potential users as appropriate.

Contributors will be advised of all releases of their data and arrangements will be made for them to receive copies of published reports based directly or indirectly on use of their materials. They will have the opportunity to respond to any commentary on or analysis of their data by receiving information copies of such commentaries or analyses prior to publication. They will receive credit through citation when publications are generated by others using their data, and will be kept informed of all data acquisitions and studies received by DAEDAC. Finally, they will receive copies of all reports generated by DAEDAC staff.

Release of Data to Investigators. To be consistent with canons of scientific practice, and in view of the public sources of funds already invested in most of the data submitted by contributors, it is planned that the files of the Center will be made available to qualified investigators in the general scientific community with a minimum of restrictions.

Qualified investigators are considered to include social and medical scientists and others who demonstrate the training, capability and resources to carry out significant substantive research on epidemiological and social science problems related to drug abuse. It is planned to include graduate students among those eligible to use the DAEDAC files.

Data will be prepared by the Center in accordance with the needs of proposed projects and charges will be billed at cost to the requester. Estimates of costs will be provided and accepted by users prior to preparation of information. Monies received will be deposited to the Center account.

Advisory Committee. The policies and plans adopted by the Center have been developed with the advice of a committee consisting of the following persons:

Juan D. Acevedo, M.S.W., Executive Director, Narcotics Prevention  
Project, Boyle Heights Center, Los Angeles

John C. Ball, Ph.D., Professor of Sociology, Department of Psychiatry,  
Temple University Health Science Center

Lois Chatham, Ph.D., Deputy Director, Division of Resource Development,  
National Institute on Drug Abuse

Annette M. Green, M.S.W., Associate Administrator for Drug & Alcohol  
Program, Allegheny County MH-MR Program, Pittsburgh

Ed Hammock, L.L.B., Deputy Commissioner, New York City Department of  
Investigation, New York

Lloyd Johnston, Ph.D., Study Director, Survey Research Center, Institute  
for Social Research, The University of Michigan

Raúl Muñoz, Vice President, Health and Social Studies, Inc., Hato  
Rey, Puerto Rico

John A. O'Donnell, Ph.D., Professor, Department of Sociology, University  
of Kentucky

William Pollin, M.D., Director, Research Division, Division of  
Narcotics and Drug Abuse, N.I.D.A.

Louise Richards, Ph.D., Acting Chief, Behavioral and Social Science  
Branch, Division of Research, N.I.D.A., (DAEDAC Project Officer)

Alex Richman, M.D., Associate Director, Department of Psychiatry,  
Beth Israel Medical Center

Leonard Savitz, Ph.D., Professor, Department of Sociology, Temple  
University

Edward C. Senay, M.D., Professor, Department of Psychiatry, University  
of Chicago School of Medicine, and Drug Abuse Programs Director,  
Illinois Drug Abuse Program

Richard Tuey, Director, Division of Scientific and Program Information,  
N.I.D.A., (Co-Project Officer)

The Advisory Committee has met three times, on March 8, June 14, and October 25, 1974 and has provided advice and consultation on (1) the approaches to and provisions for confidentiality, (2) relationships with file contributors, (3) policies and procedures for release of data to the scientific community, (4) scope of data included in this archive, and (5) the role and composition of the Advisory Committee. In addition to the members of the Advisory Committee, consultations were held with Charles B. Lawrence, Jr., former Deputy Director of the Bureau of Census, on data management systems, and with several prospective contributors of data files.

A Coding and Retrieval Manual was developed for transforming and incorporating data reported in the drug abuse literature and for search and retrieval of the information to be stored on tapes. The IBR computational staff developed procedures to catalogue and retrieve the survey literature

data; procedures also were developed for systematic processing of raw data files in order to facilitate their further use in epidemiological studies.

By the year's end acquisitions to the Aggregate File numbered over 1300 studies, of which some 200 had been coded. The Original Data File contained several major studies and negotiations were being conducted with a number of investigators to acquire their files.

Preparation and dissemination of an Information Brochure and Memorandum of Understanding and Agreement with Contributors was accomplished. In addition, a statement was prepared covering the content, uses and availability of the DAEDAC files. This was disseminated to a number of professional journals, to social scientists and to state drug abuse authorities. Early responses coming at the end of the year were encouraging in indicating interest in making use of the DAEDAC files.

Post-treatment Followup Study of DARP Cohorts 1 and 2

(Grant 1 H81 DA 01598-01) NIDA

Period. August 1974 through July 1977

Total Award. \$1,932,386.00 (\$749,171.00 for first year)

1974 Expenditures. \$75,800.00

The DARP-based treatment evaluation research contract (HSM No. 42-72-132) was confined to data covering periods when patients were actively engaged in treatment. To complete the evaluation it had always been intended to extend the research to obtain post-treatment status information on samples of each cohort. This grant authorized field work on two samples of 2000 patients each, for Cohort 1 and 2. These samples will represent approximately 15% of the patients in each cohort. A subcontract has been arranged with the National Opinion Research Center (NORC), affiliated with the University of Chicago, to conduct the field interviews. Sample selection, area studies of the cities represented by the participating treatment agencies, and analysis of the data are responsibilities assumed by the IBR drug research staff.

The initial phases of this study, during the last quarter of 1974, focused on (1) sample selection, (2) arrangements with the treatment agencies for the field work, and (3) design and field testing of the interview forms.

The followup sample for Cohort 1 was selected first in order to facilitate negotiations with the agencies. The sample design incorporates stratification by sex, age, race, drug use pattern, agency, treatment type, and time in treatment. Only categories involving sufficient cases to warrant generalization of the results were retained in the samples. As a result, a number of patient subsets that were poorly represented in the total cohort samples were excluded from the followup samples, while those subsets that were well represented (such as male, Black, 26-30, daily heroin users in methadone maintenance) were included. Sample selection within stratified subsets was random. Although non-treated control samples were not feasible in this research, several comparison groups, such as subsets that were admitted but never entered treatment, and others that left treatment within a month or



less, were included. The study design will make it possible to address time in treatment as a variable and also to compare groups with respect to during-treatment performance on numerous criteria included in both the during-treatment and post-treatment phases.

The major problem in making arrangements for the field work derived from the fact that the safeguards of privacy and confidentiality originally incorporated in the DARP made it necessary for the investigators to go back to the agencies to identify the patients in the sample. The DARP forms have been identified only by agency identification numbers and the IBR has never had (or desired to have) any identifying information. The plan developed with the subcontractor, NORC, involves disclosure of names and addresses to NORC only to implement the field work and reporting to IBR by the original agency numbers. The identity information is to be destroyed when the interviews are completed and will never be seen by the IBR staff. A link file has further been established at York University (Toronto, Canada) which will be the only place where the identities and identification numbers that are required to enter the voluminous DARP files are linked; the field interview forms use NORC-numbers and do not directly connect respondents to the DARP. These arrangements were made to protect the files against subpoena or other efforts by any criminal justice authority to obtain any of the data concerning patients included in the study.

Arrangements with the agencies were initiated after obtaining legal clearances at the Federal level, particularly in relation to laws governing confidentiality of information concerning persons treated for drug abuse. A number of states have recently enacted similar legislation at the state level and clearances with state authorities, as well as local governing boards, were required in almost every case. Visits to the agencies to negotiate for disclosure of information and to explain the elaborate procedures adopted to avoid violation of any human rights, were made jointly by representatives of IBR and NORC.

The development and pretesting of the field interview was a joint effort of NORC and IBR and the resulting form and manual represents the product of the expertise of the two staff groups. Extensive field tryouts were held both in Chicago and Fort Worth after each revision and the final interview represents an impressive combination of the inputs of the two professional groups. A Spanish translation will be available for use in Puerto Rico and in the United States, for Spanish-speaking patients.

Since the time elapsed between the earliest admissions in Cohort 1, June 1969, and the expected field interviewing, in the Spring of 1975, is six years, during which extensive changes in the social, economic, political, and even drug scenes have occurred, with wide variations within and between the cities included in the study, the IBR staff has planned a series of area studies to chart at least the major events that must be taken into account in the interpretation of the results. Detailed plans for these area studies were developed during the last quarter of 1974.

Key Personnel. Principal Investigator, Dr. Sells; Sample Selection, Dr. Simpson and Dr. Joe; Interview Form, Dr. Simpson, Mr. Berliner, Mr. Jones,

Mss. Glick, Lopez-Gomez, Schoenlank, Olsen; Negotiations with agencies, Mrs. Olsen, Mr. Berliner, Data Analysis, Dr. Demaree, Dr. Simpson, Dr. Joe, and Mr. Kee. NORC Personnel. Mr. Paul Sheatsley, Mrs. Celia Homans, Mrs. Carol Stocking, Mrs. Fansayde Callaway, Dr. Martin Frankl.

## PERSONALITY

### Critical Appraisal of Research in the PEM (Personality, Emotions, Motivation) Domain.

(Grant No. OE 2665), USOE  
Period. November 2, 1970 to April 1974  
Total Award. \$83,983.00  
1974 Expenditures. \$8,861.00

The purpose of this grant study is to survey the current state of research in the PEM domain and to make recommendations for needed research. Following consultation with an advisory committee consisting of Drs. Robert W. Beezer (USPE), Raymond B. Cattell (U. Illinois), J. McV. Hunt (U. Illinois), Donald W. Mackinnon (U. Cal., Berkeley), Warren T. Norman (U. Michigan), and S. B. Sells (TCU), Principal Investigator, it was agreed that literature review would be inappropriate. The approach adopted was to invite leading investigators in selected problem areas to form task groups to consider the state of research in their areas, identify gaps in existing knowledge, point to promising investigative approaches, and make recommendations concerning needed research.

During 1972 and 1973 eleven technical reports were issued which have received wide distribution. There were no additional reports in 1974, during which final report duplication and distribution were completed.

Key Staff. Principal Investigator, Dr. Sells; Co-Director, Dr. Demaree; Editor, Mr. Crowder; Secretary, Mrs. McQuade.

## INDUSTRIAL AND ORGANIZATIONAL RESEARCH

The IBR research program includes a broad spectrum of personnel and organizational research funded by research grants and contracts from corporations, military and other government organizations, and institutions. In addition to the objective of providing high quality research services to meet the applied needs of clients, this program assumes a major responsibility in the training of graduate students and in the advancement of scientific knowledge about organizational behavior and the utilization of personnel in organizational situations. The scope of this program includes research on individual differences, psychological testing, attitudes, organizational change, organizational and individual performance, and organizational development. Four faculty members, Drs. Hartman, James, Jones, and Sells, comprise the staff group in this area; the 1974 group of graduate research fellows included John Bruni, Kurt Helm, Chris Hornick, Michael Rainone, and Walter Booth; Marcia Butler and Pamela Jackson furnished research support. Current research activities involve four overlapping categories: 1) personnel selection and

validation studies, 2) organizational climate surveys, 3) organizational development and 4) organizational effectiveness.

#### Organizational Climate and Management Surveys, Organizational Development

Organizational climate is a developing concept reflecting the global environmental influence of the total organizational situation, management, supervision, work conditions, procedures, and relations in an organization, which is expressed in terms of a number of quantitative dimensions that have implications for the attitudes, health, behaviors, and effectiveness of organizational members. The IBR staff have pioneered in the measurement of organizational climate and in research on its dimensions. They have also developed organizational development programs related to the utilization of survey results. A study for the Kaiser Permanente Medical Care Program in Southern California, completed in 1974, was described in the 1973 Annual Report. During 1974 another organizational climate survey was carried out at the First National Bank of Fort Worth, with 662 employees responding. This survey included an extended feedback phase conducted by Dr. Hartman, with the assistance of Mike Rainone, Kurt Helm, and John Bruni. In addition to these meetings with individual work groups, separate meetings were held with division heads to present division results and the recommendations made in the feedback sessions.

#### Organizational Effectiveness

##### Study of Organizational Characteristics and Personnel Effectiveness.

(Contract No. N00014-72-A-0179-0001), ONR

Period. July 1974 - June 1975

Total Award. \$229,542.00

1974 Expenditures. \$103,453.00

A study of conditions aboard ship as they affect health and performance has been undertaken as a joint project of the Institute of Behavioral Research and the Navy Medical Neuropsychiatric Research Unit in San Diego, California. The primary focus of this study is upon the U.S. Navy ship and the structure, habitability and climate conditions which relate to health, satisfaction and performance of individuals and to the performance and effectiveness of the ship.

Major efforts during this last year of a three-year study have focused upon the conclusion of data analyses and the writing of technical reports based upon results obtained from the sample of US Navy ships. Comparisons were made between results in the navy sample and results obtained from samples of firemen, health managers, and civil engineers.

Key Personnel. Principal Investigator, Dr. Sells; Project Director, Dr. Jones, Dr. James; Secretary, Judi Morton; Research Fellows, Mr. Bruni, and Mr. Hornick.

#### Personnel Selection

##### Selection of Airline Pilots for American Airlines.

During 1974 a new study was initiated by Dr. Sells and Dr. Hartman that is

intended to develop a new basis for selection of airline pilots, geared to contemporary jet and upcoming supersonic airline operations. The first phase has involved an extensive schedule of interviews with Flight Department executives, superintendents of flight, captains, and flight crew members. These interviews were designed to determine the major responsibilities of aircraft commanders and were preliminary to the development and experimental validation of a prototype test battery on a sample of probationary pilots. Consideration is being given to long-term followup beyond the probationary period.

### Program Evaluation

#### Mental Health/Mental Retardation Evaluation.

During 1974, the MHMR Center of the Tarrant County Hospital District implemented a "Family Intervention Program" for mentally retarded youth who were progressing too slowly through the MHMR program for reasons believed to be related to improvable family relations. The essential feature of this program involves the intervention of family counselors who visit the homes to help the families cope with their problems. The IBR has undertaken the evaluation of the effectiveness of this program, using as a principal data source weekly evaluations that are required for all clients in the MHMR program. In conjunction with the design of the evaluation project the IBR staff, under Dr. Hartman, consulted on the definition of program goals and policies.

### Other Projects

#### Family Planning.

A series of studies conducted by the Institute of Behavioral Research under a HEW grant to the Tarrant County Hospital District (TCHD) led to the design of a study of the predictability of longterm family planning participation on the basis of selected psychological variables. This was presented as a research proposal to the Department of Health, Education, and Welfare and approved in 1973 with funding beginning April 1, 1974.

The objective of the study was to measure the contributions of five variables to the prediction of attendance behavior of women enrolled in the Family Planning Clinic. The five variables are attitudes toward performing the act, normative beliefs, observed past behaviors, behavioral intentions, and the perceived influence of situational events. Thus far, the predictor information, has been gathered by interviewing respondents in their homes. Collection of the criterion data, whether the respondents returned to the clinic or not, will be completed by February, 1975 at which time the data analysis phase will begin.

A progress report of the study was presented by Candyce Greer at an invited symposium entitled, "Attitudes Toward Family Planning" at the meeting of the Texas Psychological Association, Corpus Christi, Texas, December 5, 1974, chaired by Dr. Steven Cole. Dr. Cole presented a paper which focused on the attitudes of community leaders in Tarrant County toward family planning; Janice Neman authored the third paper on attitudes of teenage girls toward using birth control methods.

Key Personnel. Project Director, Dr. Cole; Research Fellow, Candyce Greer.

### Evaluation of YMCA Youth Values Alcohol Prevention Project.

The YMCA is conducting an experimental effort to test a value clarification approach to the prevention of alcohol abuse among school children. The heart of the project is training the adult group leaders who work with children in the Y programs. IBR-TCU is providing the program evaluation phase within the project. The evaluations are designed to provide feedback on the success of the program so that the appropriate revisions can be made to maximize its impact. The focus of the evaluation is on the structure and content of ethical thinking and on attitudes toward alcohol abuse in the 4th to 6th grade children participating in the program.

Key Personnel. Dr. Gorsuch, Principal Investigator; David Arno, Graduate Research Fellow.

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