

CURRICULUM VITAE

Keith D. Burau, Ph.D.

BIOGRAPHICAL:

Office Address: School of Public Health
University of Texas Health Science Center
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Houston, TX 77030
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EDUCATION:

1975- 1980 Ph.D., Biometry and Health Information Systems, University of Minnesota
1973- 1975 M.S., Biometry and Health Information Systems, University of Minnesota
1969- 1973 B.A., Biology/Health, Southwest Minnesota State University, Marshall, Minnesota

PROFESSIONAL EXPERIENCE:

Academic:

2002- **Associate Professor of Biometry**, University of Texas, School of Public Health
1983- 2002 **Assistant Professor of Biometry**, University of Texas, School of Public Health
1980- 1983 **Programmer Analyst II**, University of Texas, School of Public Health
1979- 1980 **Applications Programmer**, University of Minnesota, Health Science Computer Service Center
1978- 1979 **Analyst/Programmer**, University of Minnesota, Spinal Cord Injury Center, Department of Physical Medicine and Rehabilitation

External Consulting:

1994- 1997 **Consultant/Programmer**, Design and Management, Occupational Cohort Analysis, Potential Acrylonitrile Exposure, DuPont Chemical, Newark, DE.
1990- 1992 **Consultant/Programmer**, Design and Development of Data Entry, Management and Reporting System for the Autonomic Nervous System Laboratory, Methodist Hospital, Houston, TX.
1989- 1992 **Consultant/Programmer**, Design and Development of Data Entry, Management and Reporting System for the Hypertension and Clinical Pharmacology Laboratory, Methodist Hospital, Houston, TX.
1989- 1990 **Consultant/Programmer**, Application Design and Development, British Petroleum, America, Refinery Cohort and Acrylonitrile Studies
1988- 1990 **Programmer**, Application Development, Dow B Hickam, Pharmaceutical Co., Sugar Land, TX.
1987- 1992 **Consultant/Programmer**, Data Management, British Petroleum, America, Refinery Cohort and Acrylonitrile Studies
1987- 1989 **Consultant/Programmer**, Data Management, British Petroleum, America, Ceramic Fiber Study

11/01/2006

PROFESSIONAL AFFILIATIONS:

American Statistical Association
American Association of University Professors
American Association for the Advancement of Science

AWARDS & HONORS:

Alumni Achievement Award, Southwest Minnesota State University (2004)

Nominee for Faculty Mentoring Award, Committee on the Status of Women, University of Texas, School of Public Health (2003)

Excellence in Research Incentive Award, University of Texas, School of Public Health (2001,2002, 2003)

Excellence in Scholarship Incentive Award, University of Texas, School of Public Health (1994, 1995, 1996,1997, 1999, 2000, 2003,2004)

Research Fellow, Biometry, National Center for Health Service Research, University of Minnesota (1973-1978)

Rhodes Scholar Nominee, Southwest Minnesota State University, Marshall, MN (1973)

Who's Who Among Students in American Colleges and Universities, Southwest Minnesota State University, Marshall, MN (1973)

RESEARCH INTERESTS:

Job Exposure Matrix Development and Applications to Epidemiological Studies, Spatial/Temporal Analysis in Epidemiology, Clinical Data Systems, Automated ECG/VCG Analysis , Cosinor Analysis

TEACHING:

Catalog Courses:

Statistical Programming I & II (PH1727 & PH1728)

- History: The course was initially offered each year and more recently every other year since the late 1980s. Developed to meet the need for teaching students proficiency in implementing algorithms and writing custom programs in a high level programming language.
- Responsibility: 50%
- Content: Binary, Octal and Hexadecimal numeration systems and arithmetic are reviewed and their bit representations and arithmetic implementation on the DEC Alpha and Intel (IEEE standard) computer chips are studied. Numerical analysis procedures are implemented using algorithms to write high level programs in FORTRAN 77 to solve the problems. Additional programs include interactive polynomial computation, Lagrangian interpolation, and integration using trapezoid approximation. An interactive multivariate linear regression program, which includes a contrast option, is developed and written which uses matrix arithmetic to solve for statistical parameter estimates.

Introduction to SAS Data Management (PH1998, Special Topics)

- History: The course has been offered each summer since 1990. Developed to meet the need for teaching students proficiency in an internationally available, standard management and analysis package (SAS).
- Responsibility: 100%
- Content: Prepares the student for the widespread use of SAS applications in the health fields. A broad range of techniques is covered to provide exposure and competencies of SAS data management and information processing. Topics include reading/writing ASCII data files, creating/reading temporary vs. permanent SAS data sets, labels, using internal and custom formats, sorting, merging, collapsing data within analysis levels, t-tests, r x c chi-squares, regression, plotting, making charts, and writing macros. Several small, coding assignments are given in which the student must meet all assignment specifications before final credit is given. Recent additions are high-resolution graphics and the generation of graphics in an Enhanced Meta File (EMF) format, appropriate for inclusion in a thesis or manuscript.

Catalog Courses: (continued)

Intermediate SAS Data Management (PH1998, Special Topics)

- History: Throughout the years students have requested an advanced SAS course. The course was offered for the first time in 2004. The course was very successful. The students are presented difficult data management tasks and required to complete and submit them until all task requirements are complete to original specifications..
- Responsibility: 100%
- Content: Students will be introduced to intermediate SAS programming techniques. They will be presented with simulated programming tasks in lecture/question/answer sessions. Then they expected to complete the programming assignments in one (1) week, demonstrating the new techniques with encouragement to elaborate in the form of extra credit points. Group collaboration will be encouraged to solve problems, however every student must hand in an individual completed assignment. Every few weeks there will be an in-class programming assignment that must be completed individually on an honor system.

Introduction to Public Health Research Computing (PH1620)

- History: The course has been offered each year since 1984. Initially it was part of the biometry, data analysis track. Rewritten in the 1980s at which time the high level programming content was moved to PH1721/Ph1722. The current content was developed to teach students minimal computer skills, which are necessary to complete a thesis/manuscript from start to finish. Introduces a multitude of research task competencies culminating in hypothesis formulation and simple statistical interpretation. (Emphasis is on computer task competency.)
- Responsibility: 100%
- Content: Assumes no previous computer experience and introduces the student to the broad spectrum of computer skills necessary to independently perform the computer tasks necessary for thesis manuscript preparation. Topics include: operating system competencies (DOS, and Windows), internet proficiency, ftp exposure, HTML familiarity, Microsoft Word, Excel and Access experience, file formatting, form design, data entry and verification, SAS management and analysis of data, hypothesis formulation and statistical interpretation. Several small assignments are given.

Catalog Courses: (continued)

Medical Geography/GIS & Time Series Methods PH2125

- History: The course is a consolidation of a previous medical geography course with additional data processing and analysis components. It was reorganized in the fall of 2004 to consolidate geographic analyses, & time series analyses including autocorrelation, cross-correlation, spectral and cosinor analyses.
- Responsibility: 30%
- Content: This course teaches methods of spatial and temporal analyses that are critical for the conduct of studies of environmental science, epidemiology, biometry, humans genetics, health planning, international health and other fields of public health. The course consists of lectures, computer laboratory exercises and student projects.

Water Environment PH2230

- History: The course is a consolidation of a previous hydrology course with additional data processing and analysis components. It was reorganized in the spring of 2004 to address developing sophisticated data analysis components inherent in space / time analysis of environmental monitoring data. Geographic analyses, time series analyses including autocorrelation, cross-correlation, spectral and cosinor analyses are utilized.
- Responsibility: 30%
- Content: The major objective of the Water Environment course was to provide students with the field, laboratory, study design, and data analysis skills needed by environmental scientists to adequately assess and monitor the quality of hydrological systems that are utilized as public water supplies. Issues of water quality, as it relates to human and ecological health, included exposure and health risk assessment, water quality criteria, goals, standards, and enforcement, and oversight. Field and classroom/laboratory/computer sessions focused on water quantity and quality determination and monitoring of public water supply sources, as well as sampling of tap water. Field sampling locations were chosen from among several public water supply reservoirs located in the Harris, Fort Bend, and Montgomery counties. The study sites for the summer 2003 course were Lake Conroe and Lake Houston. Sampling of tap water in Harris County, Texas, for lead, copper, nitrates, EPA priority volatile organic compounds, as well as for fecal coliform and e-coli, were carried out as a class projects.

Guest Lectures:

Epidemiologic Proposal Development

For a few years in the late 1990s presented a guest lecture each year. Presentations covered form design, coding conventions, file formats, data entry and verification and preparation for analysis.

Field Epidemiology

For a few years in the late 1980s presented a guest lecture each year. Presentations covered form design, coding conventions, file formats, data entry, verification and preparation for analysis.

Medical Geography

In 2003 presented a series of lectures demonstrating time series analysis using custom written programs developed in Stata to analyze one way ANOVA, simple linear regression, autocorrelations, cross correlations, spectral analyses, and cosinor analyses with harmonics.

Arranged Series:

Xbase Programming, File Management using Programming Procedures in Multiple File Applications.

For a few years in the mid 1990s presented a noontime series of four or five sessions introducing the Xbase standard with demonstrations and suggested tasks covering: table design, variable type specification, table creation, data entry, field and record selection, indexing, relating tables, and generating reports. The presentations utilize the command programming window environment to implement the desired algorithms.

Xbase Individual Studies

At least once or twice a year since the early 1990s student have requested individual studies in the Xbase standard. The student typically has a desired data management task for which an Xbase application would meet the requirements. Several coding assignments are developed to introduce the student to the Xbase standard. The topics include table creation, variable type specification, field and record selection, indexing, relating tables, and generating reports. Upon completing the agreed upon tasks the requirements are met. Students usually register for such an individual study when they need extensive instructor assistance for the project at hand.

BMDP Analysis, (Special Topics)

In the early 1980s a noontime BMDP series was offered. This series of presentations was developed when BMDP had analysis procedures unavailable in other packages such as proportional hazards or Cox regression. The student typically had a data set to analyze and upon completing the agreed upon tasks the requirements were met. Students usually registered for such an individual study when they needed extensive instructor assistance working through the manual.

Student Service :

Individualized Data Management

Students routinely arrange for assistance ranging from several minutes to several sessions. Typical tasks with which a student would require help include: reading extremely long records (many thousand characters); reading extremely large files (over 20 Gigabytes), sorting these large files, fragmenting or merging such large files; managing many-to-one or many-to-many relationships between various files; appropriately normalizing or de-normalizing data for analysis packages; or routine interpretation of computer record or tape documentation. The twenty-five years of experience I have, covering generations of various formats and file types, is valuable for assisting students with obscure problems. Most students are learning public health as their objective, not computer science. Therefore, it is appropriate that they undertake such programming tasks with the assistance of a faculty member. Over the years I have assisted dozens of students with complex programming tasks.

SERVICE:

University and School:

Dual Degree Program Committee, UTHIS/UTSPH, MS/MPH (2004- ongoing)

As a member of the dual degree program committee, attended joint meetings between the University of Texas School of Health Information Systems and the University of Texas School of Public Health, reviewed course recommendations and assisted in development of curriculum content documentation.

Admissions Committee, Biostatistics Division, UTSPH (2004- ongoing)

As a member of the Biostatistics Division admissions committee duties included reviewing all applications for admissions to the division, providing evaluations to the committee chair, and occasionally tabulating and summarizing responses, and presenting faculty perspectives at school-level admissions meetings held routinely.

Annual Activities Committee, Peer Review, UTSPH (2001,2002,2003,2004)

Participate in the review of Annual Activities Reports of 140+ faculty estimating ordinal rankings within track/rank categories in 2001. Chair the AAR Committee and analyze the rankings in 2002. Serve as data manager, analyst and report generator in 2003, and 2004.

Member of six-year Review Committee, UTSPH (2003)

Participate in a review process which evaluates faculty career activities every six years.

SERVICE (continued):

University and School: (continued)

Admissions Committee, Occupational Health Module, UTSPH (1994- 2004)

As the representative from the Occupational and Environmental Health module duties include reviewing all applications for admissions to the module, circulating related documents to relevant faculty, tabulating and summarizing responses, and presenting faculty perspectives at routinely held school-level admissions meetings. The duties have evolved to include implementing an electronic system, which required a substantial increase in programming on my part with the benefit of approaching a paperless system.

NonCompensated, Grant support Programmer/Analyst, SWCOEH (2002-ongoing)

Developed customized double data enter programs and intermittent programming support for: A Validated Questionnaire for Healthcare Workers. CDC, grant.

NonCompensated, Grant support Programmer/Analyst, SWCOEH (2002-ongoing)

Database consultation for: Oxygenated Urban Air Toxics and Asthma Variability in Middle School Children. Mickey Leland National Urban Air Toxics Research Center, grant.

Distance Education subcommittee for Graduate Course in Introduction to Biometry (1997-1999)

A group of faculty and staff developed a biometry component of the school's distance education program. I assisted with web page design, course highlight presentation, problem assignment augmentation, as well as occasional Interactive TV presentations.

Southwest Center for Occupational and Environmental Health, Web Page Development Committee (1997)

Together with web page authors and developers, I participated in the initial design and implementation of the web page for the Southwest Center for Occupational and Environmental Health

School of Public Health, Web Page Advisory Committee (1996-1997)

A group of faculty and staff met several times to evaluate and assist in the design and make recommendations for the web page for the University of Texas School of Public Health

Dean's Advisory Committee, UTSPH (1988- 1996)

The dean's advisory committee met several times over several years to serve as a forum for issues of school wide significance for which no other problem solving venue existed.

Non-tenure Track Peer Review Development Committee, UTSPH (1995)

A few non-tenure faculty met several times to initiate action that eventually incorporated non-tenure track procedures into the process of tenure track procedures for review and promotion.

SERVICE (continued):

University and School: (continued)

Contracts & Grants Data System, Data Management and Programming Support,UTSPH (1992-1995)

Assisted with trouble-shooting problems, writing modifications and adding options to an early Xbase application that was used for monitoring and reporting contract and grant applications.

Health Computer Resource Committee, Coordinator, UTSPH (1994-1995)

As coordinator of the committee I convened meetings and coordinated communication and reporting procedures for computer resources representing the faculty and research needs in the coordinating center, and student needs in computer services.

Administrative Data Base System, Data Coordinator and Instructional Support, UTSPH, (1995)

In collaboration with other programmers and administrative personnel, I participated in analysis of table designs and relationships in initial phases of the schools electronic administrative database system. Before this consolidation effort, databases were generally standalone on the computer of the individual who used it.

Handicapped User's Group, Member, TMC (1989-1992)

Served as a member and advocate for the handicapped in transportation and accessibility issues within the Texas Medical Center.

Equal Access Committee, Member, UTSPH (1988-1992)

Served as a faculty representative and referral source that met routinely with several handicapped students to advise and assist in resolving accessibility issues with the University of Texas School of Public Health

University of Texas Lifetime Health Letter, March 1991:"Ask the Doctor", Response to question regarding utilization of VDTs during pregnancy, Consultant, UTHSC/H

Served as consultant for newsletter regarding recent research in video display terminal (VDT) use during pregnancy and its association with miscarriages.

Programs of Instruction Committee, Member, UTSPH (1989-1991)

Met with several of faculty to resolve and document issues regarding the University of Texas School of Public Health, programs of instruction. A major contribution of this committee was the identification and later the implementation of the learning objectives currently reviewed during the MPH semester evaluation meetings.

University of Texas at Houston Education and Research Computing Center (UTHERCC), Evaluation Consultant, Beta test version of dB-Stats (Ashton-Tate) (1990)

As a routine user of early dBase versions and a statistician I was requested by the University of Texas at Houston Education and Research Computing Center to evaluate the statistical package dB Stats.

Community: (Unpaid Consultant Activities)

Stata & SAS Programmer/Analyst, Stata data processing of hierarchical HIV disease progression data, involving programming with carries, computing CD4 endpoints, merging and the application of CDC age growth standards using SAS Macros. Margaret Ferris, Instructor, Baylor International Pediatric AIDS Initiative, Baylor College of Medicine, Houston, TX.

SAS Programmer/Analyst, SAS Macro implementation of NYU Algorithm for Probabilistic Imputation of Emergency Room Utilization Need, Dr Shari Campbell, Division of Community Assistance, Colorado Springs, CO.

SAS Programmer/Analyst, SAS consultation and programming assistance with data management of merging and cleaning of very large hospitalization ultrasound and pregnancy data files. Kim Waller, Associate Professor, Division of Epidemiology and Tracy Evans MS, Epidemiology student, University of Texas School of Public Health.

SAS Programmer/Analyst, SAS consultation and programming assistance with data management of creatinine follow-up data. Joshua Samuels, Assistant Professor, Division of Internal Medicine, University of Texas Medical School.

SAS Programmer/Analyst, SAS Macro implementation of Probabilistic Matching, Mental Health and Mental Retardation Authority of Harris County with Harris County Hospital District, Dr J Scott Hickey. (Consult and assist in SAS Macro development and implementation for Probabilistic Matching of large demographic data sets.)

SAS Programmer/Analyst, SAS consultation and programming assistance with data management and categorical data analysis of cardiac monitoring data. Saeed Payvar, Instructor in Medicine, Division of Cardiology, University of Texas Medical School.

SAS Programmer/Analyst, SAS consultation and programming assistance processing National Center for Health Statistics (NCHS) SAS data sets, numeric and character manipulation to merge incompatible diagnosis fields, Karen Chronister, NIH internship.

Programmer/Analyst, Consultation regarding analysis and data structure of the DuPont Acrylonitrile Cohort. Dr Gary Marsh, Department of Biostatistics, University of Pittsburgh.

Programmer/Analyst, SAS consultation and programming assistance with data management and categorical data display of clinical data. John Allen Wright, Research Coordinator, Department of Neurology, Baylor College of Medicine.

Programmer/Analyst, SAS consultation and programming assistance processing SEER case data files for the calculation of morphology specific survival analyses. Dr Sharon Giordano, Medical Oncology, M.D. Anderson Cancer Center.

SERVICE (continued):

Community: (Unpaid Consultant Activities) continued

Programmer/Analyst, Harris County Hospital District, nine month Emergency Department Visit analysis, SAS Macro implementation (Implementation and Analysis of ICD9 Categorization system to Emergency Department Visits for Harris County Trauma Hospital)

Programmer/Analyst, SAS consultation and programming assistance with data management and macro implementation. Shan Lu, Programmer Analyst, M.D. Anderson, Department of Biomathematics.

Programmer/Analyst, SAS Macro implementation of Probabilistic Matching, Mental Health and Mental Retardation Authority of Harris County, Dr J Scott Hickey. (Consult and assist in SAS Macro development and implementation for Probabilistic Matching of large demographic data sets.)

Programmer/Analyst, Workplace Safety Climate for Hospital Workers in Costa Rica, Fogarty International Training Program in Occupational & Environmental Health (Develop customized data entry and editing applications and perform statistical analyses for final reports.)

Programmer/Analyst, Public Health Workforce in the Lower Rio Grande Valley Needs Assessment, University of Texas, School of Public Health, Brownsville, TX (Assist with data querying and statistical analyses for final reports.)

Programmer/Analyst, Healthy Moms & Babies , A non-profit clinic Napa, CA, (Programming assistance and advice regarding manipulating and converting various formats)

Consultant, SAS Data management of relational dietary data from the Bogalusa Heart Study, Baylor College of Medicine, Children's Nutritional Research Center, Dr Teresa Nicholas. (Advise and assist with coding complex relation data with variety of file formats.)

Programmer/Analyst, Ensuenos del Futuro Program (Future Dreams Program) Houston Independent School District, Houston, TX (Develop customized data entry and editing applications and perform statistical analyses for final reports.)

Programmer/Analyst, Ben-Taub General Hospital and Baylor College of Medicine, Department of Medicine, Dr. R Bag. (Manage and link hospital emergency room visit data, zip code linkage data, and ozone monitoring data including proximity substitutions for missing and incomplete data over a ten year period. Perform preliminary data analysis including latency calculations.)

Programmer/Statistician, University of Texas Medical School, Department of Obstetrics & Gynecology, Dr. Nancy Susan Hardwich-Smith. (Met several times over six months. Perform statistical analysis correlating real-time activity monitoring data with traditional physician bed-rest confinement procedures.)

SERVICE (continued):

Community: (Unpaid Consultant Activities) continued

Programmer/Statistician, Data Entry System and Analysis, Development of Curriculum and Competencies in Occupation Health, a Global Survey. Contract with World Health Organization (WHO) (Develop customized data entry and editing applications, and perform preliminary management supporting statistical analyses.)

Programmer/Statistician, Data Entry System and Analysis, Program Evaluation of Drug Awareness Program for At-Risk Youth in the Heights HISD Schools, Houston Independent School District, Houston, TX. (Develop customized data entry and editing applications, and perform statistical analyses for final reports.)

Programmer/Statistician, Data Entry System and Analysis, Evaluation of the Impact of Placing a Mental Health Counselor in the Fort Bend County Family Health Center. (Develop customized data entry and editing applications, and perform statistical analyses for final reports.)

Programmer/Statistician, Statistical consultation and analysis of Ultrasound Data for Urinary Bladder Volumes, Department of Obstetrics/Gynecology and Reproductive Sciences, University of Texas Medical School, Dr Vaseem Ali (Together with medical personnel from the University of Texas Medical School, we met several times for four months to assist in managing and analyzing bladder volume data for an exercise intervention study.)

Consultant and Application Development, Data Entry and Report System, Vision Health International, Volunteer Vision Health Improvement for Medically Under-served People, Houston, TX. (Maintain pre-existing data entry and editing application and support report generating procedures.)

Consultant and Application Development, Data Entry and Report System, The Emmaus Way Foundation, Homeless Shelter, Rosenberg TX. (Develop customized data entry and editing applications and support report generating procedures for annual nonprofit grant renewals.)

Tutor, Program for Academic Excellence, Mathematics, Missouri City Middle School, Fort Bend Independent School District. (Worked with minority students to sharpen math skills and practice problem solving insights in preparation for academic competition in mathematics.)

Consultant, Texas Department of Health, Data Repository of Vital Statistics Data at the School of Public Health. (Provide computer support in the form of consultation and programming assistance for School of Public Health users approved by the Texas Health Department for Vital Statistics utilization. This function provided SPH users on-site assistance, and facilitated TDH distribution of approved data.)

Journal Reviewer:

Annals of Epidemiology

(A few manuscripts since the mid-1990s)

Computer (Journal of the Institute of Electrical and Electronics Engineers, IEEE)

(A few manuscripts since the mid-1990s)

International Journal of Exposure Analysis and Environmental Epidemiology

2001, 2003

Journal of Women's Health

2004

RESEARCH

FUNDED RESEARCH:

- Co-Investigator**, Houston Safety Net Hospitals Emergency Department Use Study, 2005-2006, \$38,462 (Harris County Hospital District)
- Co-Principal Investigator**, Data Coordinating Center for the North American Clinical Trials Network for the Treatment of Spinal Cord Injury, 2004-2006, \$223,989 (Christopher Reeves Foundation)
- Information System Support**, Southwest Center for Occupational and Environmental Health, 2005-2010 \$1,263,791 (Centers for Disease Control)
- Co-Investigator**, Patterns of Emergency Room Use in Harris County Safety Net Hospitals, 2004, \$15,384 (Harris County Hospital District)
- Co-Investigator**, Phosgene Incident Registry – Epidemiological/Medical Consultant, 2004-2007, \$27,958 (American Chemical Counsel)
- Co-Investigator**, Patterns of Emergency Room Use in Harris County Safety Net Hospitals, 2003, \$15,373 (Harris County Hospital District)
- Principal Investigator**, Injury and Illness Surveillance in Migrant Farmworkers, 2002-2003, Final months, analysis phase and one-year no cost extension, \$175,000 (Centers for Disease Control)
- Co-Principal Investigator**, Injury and Illness Surveillance in Migrant Farmworkers, 2001-2002, \$175,000 (Centers for Disease Control)
- Co-Investigator**, Study of Work Injuries in Farmworker Children, 2001-2002, \$135,901, year-1, (UT-Tyler, subcontract)
- Information System Support**, Southwest Center for Occupational and Environmental Health, 2000-2005 \$1,082,485 (Centers for Disease Control)
- Co-Investigator**, Development of a Survey Instrument to Assess Safety Climate and Occupational Injuries Among Construction Workers, 2000-2001, \$43,048, (Center to Protect Worker's Rights)
- Co-Investigator**, Injury and Illness Surveillance in Migrant Farmworkers, 1999-2001, \$175,000 (Centers for Disease Control)
- Co-Investigator**, Phillips Bladder Cancer Screening Program, 1998-2003, \$4,019,150 (Phillips Petroleum)

FUNDED RESEARCH (continued):

Information System Support, International Training and Research Programs, Fogarty International Center, 1995 -2001, \$411,530, (National Institute of Health)

Co-Investigator, (In-kind Service) Texas Department of Health, National Program of Cancer Registries, 1994-2001, \$1,003,870. (Centers for Disease Control)

Co-Principal investigator, City of Houston Lead poisoning Prevention Program Impact Analysis, 1998-1999, \$19,092, (City of Houston/CDC)

Co-Investigator, Relationship Between PM 2.5 Ambient Monitoring Data and Estimating Group Mean Exposures, 1997 -1999, \$38,605, (Environmental Protection Agency)

Co-Investigator, Assessment of Exposures to Migrant Farmworker Children: A Feasibility Study, 1997-1998, \$24,934, (National Cancer Institute)

Co-Investigator, The Utility of Biomarkers as Exposure and Dose Measures, 1997, \$53,677. (National Institute of Occupational Safety and Health)

Co-Investigator, Prenatal Exposure to Pesticides, A Feasibility Study, 1997, \$24,936, (National Cancer Institute)

Co-Investigator, Human Reproductive Effects of Polyhalogenated Biphenyls, 1993-1996, \$394,160. (National Institute of Environmental Health Sciences)

Co-Investigator, Work Related Injuries in Texas Adolescents, 1996, \$31,620. (University of Texas-Houston, Seed and Collaborative Grant)

Co-Investigator, ECOPETROL Project, Health Status and Exposure Assessment of Refinery Workers in Barrancabermeja, Colombia, 1996, \$414,889. (Pan American Health Organization)

Co-Investigator, Migrant Farmworker Questionnaire Pretest, 1995-1996, \$3,713. (National Cancer Institute)

Co-Investigator, Tracing Migrant Farmworkers in Starr County, Texas, 1995-1996, \$24,982. (National Cancer Institute)

Co-Investigator, A Critical Review of Cancer in Texas with Emphasis on Environmental and Occupational Exposures, 1993-1994, \$82,000. (Texas Institute for Advancement of Chemical Technology, Inc.)

FUNDED RESEARCH (continued):

Principal Investigator, Subcontract with U.T.M.B., Galveston, Dr. Abida Haque, Transplacental Transfer of Asbestos in Humans, 1992-1994, \$30,673. (National Institute of Health)

Co-Investigator, Occupational Injury and Illness Study in the State of Texas, 1992-1993, \$290,000. (State of Texas Legislature)

Information System Support, Southwest Center for Occupational and Environmental Health, 1990-1995, \$2,567,644. (National Institute for Occupational Safety and Health)

Co-Investigator, A Study to Assess the Prevalence of Keratoses in an Industrial Population, 1990-1992, \$483,845. (ICI Americas, Inc)

Co-Investigator, A Feasibility Study of the Prevalence of Keratoses in an Industrial Population, 1990, \$120,674. (ICI Americas, Inc)

Co-Investigator, Feasibility Study of Epidemiologic Studies at the Phillips 66 Houston Chemical Complex, 1990-1991, \$592,351 (Phillips Petroleum, Inc)

Co-Investigator, A Meta-analysis of: VDT Exposure and Reproductive Outcomes, 1989-1990, \$62,340, (IBM, Inc)

Co-Investigator, Uterine Activity Patterns: Definition with Home Monitor, 1988-1991, \$284,168. (Maternal and Child Health Grant, March of Dimes)

Co-Investigator, Occupational and Environmental Exposures in the Etiology of Adult Leukemia, 1984-1987, \$518,00. (Epidemiology and Disease Control Section, National Institutes of Health)

Co-Investigator, Central Nervous System Tumors and Occupational Exposures, 1982-1985, \$580,000. (Epidemiology and Disease Control Section, National Institutes of Health)

PUBLICATIONS:

** Indicates Student Involvement

REFEREED JOURNALS:

Delclos GL, Gimeno D, Arif AA, **BURAU KD**, Carson A, Lusk CM, Stock T, Symanski E, Whitehead LW, Zock JP, Benavides FG, Anto JM, 2006. Occupational risk factors and asthma among healthcare professionals. Am J Respir Crit Care Med (In Press)

Cech I, **BURAU KD**, Walston J, 2006. Spatial distribution of orofacial cleft defect births in harris county, texas, 1989-1994, and historical evidence for the presence of low-level radioactivity in tap water. South Med J (In Press)

Shipp EM, Cooper SP, del Junco, DJ, Delclos GL, **BURAU KD**, Tortolero SR, 2006. Severe back pain among farmworker high school students from starr county texas: Baseline results. Ann Epidemiol (In Press)

Shah AP**, Smolensky MH, **BURAU KD**, Cech IM, Lai D, 2006. Seasonal patterns in selected reportable infectious diseases in the United States. Chronobiol Int 23:1065-82.

Lusk CM, Delclos G, **BURAU KD**, Drawhorn D, Aday LA, 2006. Mail versus internet-based surveys. Determinants of method of response preferences among health professionals. Eval Health Prof (In Press)

Begley CE, Vojvodic RW**, Seo M**, **BURAU K**, 2006. Emergency room use and access to primary care: Evidence from Houston, Texas. J of Health Care for the Poor and Underserved 17:610-24.

BURAU KD, Shipp EM**, Cooper SP, Frankowski R, McKinnon S**, Walker K**, 2006. Response accuracy of hazard identification in migrant farmworkers. J Agromedicine 11:17-26.

Cech I, Smolensky MH, Afshar M, Broyles G**, Barczyk**, **BURAU K**, Emery R, 2006. Lead and copper in the drinking water fountains – information for physicians. South Med J 99:137-42.

Cooper SP, **BURAU KE**, Frankowski R, Shipp EM**, Del Junco DJ, Whitworth RE, Sweeney AM, MacNaughton N, Weller NF**, Hanis C, 2006. A cohort study of injuries in migrant farmworker families in south texas. Ann Epidemiol 16:313-20.

Du XL, Chan W, Giordano S, Geraci JM, Delclos GL, **BURAU K**, Fang S, 2005 Variation in modes of chemotherapy for breast cancer and association with hospitalization for chemotherapy-related toxicity. Cancer 104:913-24.

Gimeno D, Felknor SA, **BURAU KD**, Delclos GL, 2005. Organizational and occupational risk factors associated with work related injuries among public hospital employees in Costa Rica. Occup Environ Med 62:337-343.

Shipp EM**, Cooper SP, **BURAU KD**, Bolin JN, 2005 Pesticide safety training and field sanitation in migrant farmworker mothers from Starr County. TX. J Agric Saf Health 11:51-60.

PUBLICATIONS (continued):

Felknor SA, Sequeira LF, Weinger M, **BURAU K**, de Mezerville L, Delclos GL, 2004. Worker safety training in public hospitals in Costa Rica. Int J Occup Environ Health 10:445-450.

Chandwani KD**, Smolensky MH, Cech I, **BURAU KD**, Hermida RC., 2004 Annual pattern of human conceptions in the state of Texas. Chronobiol Int 21:73-93.

Felknor SA, Delclos GL, Lerner SP, **BURAU KD**, Wood SM, Lusk CM, Jalayer AD, 2003. Bladder cancer screening program for a petrochemical cohort with potential exposure to beta-naphthylamine. J Occup Environ Med 45:289-294.

Okcu MF, Goodman KJ, Carozza SE, Weiss NS, **BURAU KD**, Bleyer WA, Cooper SP, 2002. Birth weight, ethnicity and occurrence of cancer in children: a population-based, incident case-control study in the state of Texas, USA. Cancer Causes Control 13:595-602.

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Sweeney AM, Symanski E , **BURAU KD**, Kim Y, Humphrey HEB**, Smith MA, 2001. Changes in serum PBB and PCB levels over time among women of varying ages at exposure. Environ Res 86:128-139.

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Parks DK, Yetman RJ, McNeese MC, **BURAU KD**, Smolensky MH, 2000. Day-night pattern in accidental exposures to bloodborne pathogens among medical students and residents. Chronobiol Int 17:16-70.

Cooper SP, **BURAU KD**, Robinson TB, Richardson S, Schnitzer PG, Fraser JJ, 1999. Adolescent Occupational Injuries: Texas, 1990-1996. Am J Ind Med 35:43-50.

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Cooper SP, Downs TD, **BURAU KD**, Buffler PA, Tucker S, Whitehead L, Wood S, Delclos G, Huang B, Davidson T, Key M, 1994. A survey of keratoses among paraquat workers and a nonexposed friend reference group". Am J Ind Med 25:335-347.

Lee RK, **BURAU K**, Clanton S, 1991. Firearm mortality in Texas, 1976-1985: How far is Fort Smith. Tex Med 87:78-83.

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Brown LM, Mason TJ, Pickle LW, Stewart PA, Buffler PA, **BURAU KD**, Ziegler RG and Fraumeni JF Jr, 1988. Occupational risk factors for laryngeal cancer on the Texas Gulf Coast. Cancer Res 48:1960-1964.

BURAU KD, Wood SM, Buffler PA, 1985. Microcomputer-assisted data management in a case-comparison study. Comput Biomed Res 18:369-376.

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Felknor SA, **BURAU KD**, Drewry J**, Kass-Hout T, Kennedy V. Public health workforce needs assessment in the Lower Rio Grande Valley (LRVG) with comparisons to the state of Texas.

BOOK CHAPTERS, PROCEEDINGS, AND MONOGRAPHS:

Delclos GL, **BURAU KD**, Carson AI, Felknor SA, Morandi MT, Guevara E, Murry K, 1999. "Estudio de las condiciones generales de salud de los trabajadores en plantas del Complejo Industrial de Barrancabermeja", In: Mendes R (ed) La Búsqueda de la Salud Ocupacional en el Industrial Petróleo Colombia: Informe Técnico-Científico del Proyecto SOIP. Sociedad Colombiana de Medicina del Trabajo. [*"Study of the general health conditions of workers in the barrancabermeja industrial complex"* In: Mendes R (ed) *The search for occupational health in the Colombian petroleum industry: scientific-technical report of the occupational health in the petroleum industry project (SOP).*]

Odita JC, Ross PJ, Barron BJ, Lamki LM, Cross CA, **BURAU K**. 1997. Determination of the effect of teenage pregnancy on bone mineral content. Proceedings of the 42nd Annual Meeting of the Southwestern Chapter Society of Nuclear Medicine & Cardiac Nuclear Medicine Symposium, New Orleans, LA, April 11-13. Clin Nucl Med 22:200.

Buffler PA, Contant CF Jr, Pickle LW, **BURAU KD**, Cooper SP, Mason TJ, 1986. Environmental associations with lung cancer in Texas coastal counties. In Lung Cancer: Current Status and Prospects for the Future: C.F. Mountain, D.T. Carr (eds). Austin: University of Texas Press, p27-34.

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Shipp EM, Cooper SP, del Junco, DJ, Delclos GL, **BURAU KD**, Tortolero SR, 2006. Sever back pain among farmworker high school students from Starr County, Texas. Presented at Society for Epidemiology Research, Seattle, WA, June 20-21.

Westheimer-Vojvodic RW, Begley CE, Seo M, **BURAU KD**, 2005. Methods for analyzing emergency department use as an indicator of primary care access problems: Evidence from Houston, Texas. Annual meeting of the American Public Health Association. Philadelphia, PA, Dec 10-14.

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Farenthold E**, Hickey S, **BURAU K**, Nguyen TD, 2003. Factors affecting criminal behavior in patients receiving neuropsychiatric treatment. Kelsey Seybold Health Outcomes Conference, Houston, TX, November 3.

Cooper SP, **BURAU K**, Shipp EM, Frankowski R, Oliphant D, Sweeney AM, Del Junco D, Whitworth R, 2003. Injuries in farmworker families: an elusive concept. Future of Rural Peoples: Rural economy, healthy people, environment, rural communities, Fifth International Symposium. Saskatoon, Saskatchewan, Canada, October 19-23.

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Felknor S, **BURAU K**, Oliphant D, Frankowski R, 2003. A pilot study to assess safety climate, occupational injuries, and safety practices among Hispanic and non-Hispanic construction workers. NORA 2003 Working Partnerships: Applying Research to Practice. Washington DC, June 23 – 24.

Cooper SP, **BURAU K**, Shipp EM, Frankowski R, MacNaughton N, Hanis C, Sweeney AM, Frimanis L, Oliphant D, Weller N. 2003. Injury surveillance in migrant farmworker families. NORA Symposium 2003 Working Partnerships: Applying Research to Practice. Arlington, VA, June 23 – 24.

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Fraser JJ, Cooper SP, **BURAU KD**, Robinson T, 1999. Work-related injuries in Texas adolescents. Texas Pediatric Society, Annual Meeting. Houston, Texas, September 23-26.

Ryan TJ, Whitehead LW, Connor TH, **BURAU KD**, 1999. Indoor bioaerosol blooms associated with exterior climatological moisture events. Indoor Air Conference, Edinburg, Scotland, August.

Cooper SP, **BURAU K**, Hanis C, Smith MA, Sweeney A, Vernon S, Wun CC, Henry J, MacNaughton N, Robinson T, Zahm SH, 1998. Tracing migrant farmworkers in Starr County, TX. Special session on feasibility of epidemiologic research on cancer among migrant farmworkers. Annual meeting of the American Public Health Association. Washington D.C. November 18.

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Sweeney A, Wun CC, **BURAU K**, Kim Y, Smith M, Humphrey H, 1998. The relationship of serum PBB/PCB levels and birth weight and gestational length. Accepted for presentation at International Society for Environmental Epidemiology, September

Huang B, **BURAU KD**, Whitehead LW, Delclos G, Downs TD, 1998. Leukemia and occupational exposure to magnetic fields: an incident case-control study. Presented at the Society for Epidemiology Research, Chicago, IL, June 23-26.

Hoque A, Sigurdson AJ, **BURAU KD**, Humphrey HB, Hess KR, Sweeney AM, 1998. Polybrominated Biphenyls (PBBs) and risk of digestive system cancer: A 20 year follow-up study. Accepted for presentation at the 22nd annual meeting of the American Society of Preventive Oncology, Bethesda, MD, March 4-6.

Sweeney A, **BURAU K**, Smith M, Wun C, Kim Y, Humphrey H, 1997. PBBs and reproductive effects. Poster Session at Gulf Coast Chapter, Society of Toxicology, College Station, TX, Nov 13-15.

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Cooper SP, **BURAU KD**, Robinson T, Fraser J, Schnitzer P, Richardson S, 1997. Adolescent Occupational Injuries: Texas 1961-1996. Presented at National Occupational Injury Research Symposium, Morgantown, W. Virginia, October 15-17.

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Wood SM, **BURAU K**, Buffler PA, Kirvanic N, 1997. Cohort study of DuPont employees with potential for exposure to acrylonitrile. Presented at Acrylonitrile Epidemiology Conference, August 26-28, Green College, Oxford, England.

Hoque A, Sigurdson A, **BURAU K**, Humphrey H, Sweeney A, 1997. Cancer in a Michigan cohort exposed to polybrominated biphenyls (PBB). Presented at the Society for Epidemiology Research, Annual Meeting, Edmonton, Alberta, Canada, June 12-14.

Cooper S, **BURAU K**, Hanis C, Smith M, Sweeney A, Vernon S, Wun C, Henry J, MacNaughton, Robinson T, Zahm S, 1997. Tracing migrant farmworkers in Starr County, TX. Presented at the Society for Epidemiology Research, Annual Meeting, Edmonton, Alberta, Canada, June 12-14.

Odita JC, Ross PJ, Barron BJ, Lamki LM, Cross CA, **BURAU K**. 1997. The impact of teenage pregnancy on bone mineral content. Poster Session at 44nd Annual Meeting of the Society of Nuclear Medicine, San Antonio, TX, June 1-5.

Odita JC, Ross PJ, Cross CA, Lamki LM, Barron BJ, **BURAU K**. 1997. Determination of the effect of teenage pregnancy on bone mineral density. Presented at the Society for Pediatric Radiology 40th Annual Meeting, St. Louis, MO, May 13-18.

Bertsch N, Newton E, **BURAU K**, Uribe-Gross S, Smolensky M, Portman R, 1997. The relationship between uterine contraction and physical activity in hospitalized patients. Poster presentation at the Society of Perinatal Obstetricians, Anaheim CA, January 20-25.

Groff JY, Mullen PD, Mongoven M, **BURAU K**, 1996. Prenatal weight gain patterns by maternal smoking status. Presented at the Society of Behavioral Medicine, Washington, DC., March 15.

Haque AK, Vrazel D, **BURAU KD**, Downs TD, Cooper SP, 1995. Asbestos in stillborn infant's organs and placentas: Transplacental transfer or artifact? Poster session at United States and Canadian Academy of Pathology, Toronto, Canada, March 13-16.

PRESENTATIONS AND ABSTRACTS: (continued)

Sweeney A, Zong J, **BURAU K**, Smith MA, 1994. Changes in serum PBB levels over time in women of childbearing age. Poster session at ISEE/ISEA Joint Conference, Research Triangle Park, NC, Sept 18-21.

Alterman TA, Shekelle RB, Vernon SW, **BURAU KD**, 1993. Decision latitude, psychologic demand, job strain, and coronary heart disease in the Western Electric Study. Presented at the Annual Meeting of the A.P.H.A., Epidemiology contributed papers, San Francisco, CA, October 26.

Moore T, Iams J, Creasy R, **BURAU KD**, Davidson A, 1993. Diurnal and gestational patterns of uterine activity in normal human pregnancy. Presented at the Society of Perinatal Obstetricians, San Francisco, CA, February 8-13.

Cooper SP, Downs TD, **BURAU K**, Tucker S, Whitehead L, Delclos G, Key M, Huang B, Davidson T, Buffler PA, 1992. A survey of keratoses among paraquat production workers and their friends. Presented at the Ninth International Symposium on Epidemiology and Occupational Health, Cincinnati, OH, September 23-25.

Lewis RJ, Buffler PA, **BURAU KD**, Downs TD, Whitehead L, 1991. Central nervous system (CNS) tumors and occupational exposure to electric and magnetic fields (EMFs). Presented at Society for Epidemiology Research, Buffalo, NY., June.

Buffler PA, Downs TD, Rosas AL, **BURAU KD**, Prichard HM, 1989. A meta-analysis of VDT epidemiological studies. Presented at the Annual Meeting of the A.P.H.A., Chicago, IL, October.

BURAU KD, Buffler PA, Downs TD, Prichard HM, Rosas AL, Baker WE, 1989. VDT exposure and reproductive outcomes: A meta-analysis. Poster session at The Second International Scientific Conference on Work with Display Units. Montreal, Canada, September 11-14.

Buffler PA, **BURAU KD**, Liu W, Davidson TA, 1989. Epidemiology of carcinoma of the lung. Poster session at The Pathology of Occupational Lung Disease: An Update. Baylor College of Medicine, Houston, TX, May.

Shaw GL, Falk RT, Pickle LW, Mason TJ, **BURAU KD**, Buffler PA, 1988. Is cancer in relatives a risk factor for lung cancer in coastal Texas? Presented at ASCO Annual Meeting, New Orleans, LA, May.

BURAU KD, Johnson RA, Wood SM, Buffler PA, 1985. A microcomputer based data management system for case comparison studies. Presented at 1985 Public Health Conference on Records and Statistics (August) by R.A. Johnson.

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Potter D, Pickle LW, Mason TJ, Buffler PA, **BURAU K**, 1985. Smoking related risk factors for lung cancer by cell type among women in Texas. Presented at the Annual Meeting of the American Epidemiologic Society, Chapel Hill, NC, June.

Buffler PA, Contant CF, Pickle LW, **BURAU K**, Mason TJ, 1984. Environmental associations with lung cancer in Texas coastal counties. Presented at M.D. Anderson Clinical Conference on Cancer, Houston, TX, November.

Buffler PA, Contant CF Jr, Pickle LW, Easling I, **BURAU K**, Mason TJ, 1984. Occupational and industrial associations with lung cancer in Texas coastal counties. Presented at the Annual Meeting of the American Epidemiologic Society, Philadelphia, PA, March 23.

FINAL REPORTS TO GRANTING AGENCIES:

Cech I, **BURAU KD**, Englund J, Al Hashimi R, Roberts BW, 2005. The Role of Chemical and Biological Factors in the Etiology of Neural Tube Defect Births Along the U.S.-Mexico Border. Final Report, to the CDC/ATSDR, Grant #H75/ATH682909, Atlanta Georgia, December 12.

Begley C, Westheimer-Vojvodic R, Seo M, **BURAU K**, Shacks L, 2005. Memorial Hermann Healthcare System Emergency Department Use Study, January 1, 2003 through December 31, 2003. Final Report, Memorial Hermann Healthcare System Hospitals. Houston, Texas. February 10.

Begley C, Seo M, **BURAU K**, Westheimer-Vojvodic R, Shacks L, 2005. Houston Safety Net Hospitals Emergency Department Use Study, January 1, 2003 through December 31, 2003. Final Report, Gateway to Care. Houston, Texas. January 24.

Begley C, Seo M, **BURAU K**, Shacks L, Westheimer-Vojvodic R, 2004. Houston Safety Net Hospitals Emergency Department Use Study, January 1, 2003 through December 31, 2003. Report to Administrative Committee of the Community Access Collaborative. Houston, Texas. November 15.

Delclos GL, Morandi MT, Stock T, Lai D, Abramson SL, Stockrider MT, Hanania N, Lusk C, **BURAU K**, Afshar M, Maberti S, Tee, GP, 2004. Oxygenated Urban Air Toxics and Asthma Variability in Middle School Children. A Panel Study. Final Report, Mickey Leland National Urban Air Toxic Research Center, May 10.

Cooper S, **BURAU K**, Frankowski R, Hanis C, Sweeney A, Shipp E, Weller N, 2004. Injury and Illness Surveillance in Migrant FarmWorkers. Final Performance Report, Centers for Disease Control and Prevention, Atlanta Georgia, February 27.

Begley C, Westheimer-Vojvodic R, Seo M, **BURAU K**, Reynolds T, 2003. Memorial Hermann Healthcare System emergency department use study, January 1, 2002 through December 31, 2002. Final Report, Memorial Hermann Healthcare System Hospitals. Houston, Texas. October 15.

Begley C, Westheimer-Vojvodic R, Seo M, **BURAU K**, Reynolds T, 2003. Houston Safety Net Hospitals Emergency Department Use Study, January 1, 2002 through December 31, 2002. Final Report, Gateway to Care. Houston, Texas. September 30.

Felknor SA, **BURAU K**, Drewry J, Kass-Hout T, Disnard G, 2002. Public Health Workforce Needs Assessment in the Lower Rio Grande Valley, Final Report, State of Texas, Public Health Division, Lower Rio Grande Valley Regional Academic Health Center. May 2.

Felknor SA, **BURAU K**, Frankowski R, 2001. Pilot Study to Develop a Survey Instrument to Assess Safety Climate and Occupational Injuries Among Construction Workers. Final Report, CDC/DHHS, October 3.

Cooper S, **BURAU K**, Hanis C, Henry J, McNaughton N, Robinson T, Smith M, Sweeney A, Vernon S, Wun C, Zahm S, 1998. Tracing migrant farmworkers in Starr County, TX. Final Report, Nation

Cancer Institute, March 26.

FINAL REPORTS TO GRANTING AGENCIES: (continued)

Cooper S, **BURAU K**, Fraser J, Robinson T, 1998. Work-related injuries in Texas adolescents. Final Report, The University of Texas Health Science Center-Houston, Office of Research and Academic Affairs; Also Submitted to Texas Workers Compensation Commission and U.S. Department of Labor. March 17.

Cooper S, Vernon S, **BURAU K**, Hanis C, Smith MA, Symanski E, Sweeney A, Robinson T, Guerra H, 1998. Ascertainment of Exposures of Migrant Farmworker Children: A Feasibility Study. Final Report, National Cancer Institute, March 26.

Carson, A, Detry M, Spears B, **BURAU K**, 1997. City of Houston lead poisoning prevention program: case density and impact analysis. Technical Report, June 30.

Cooper S, **BURAU K**, Hanis C, Smith MA, Sweeney A, Vernon S, Wun C, Henry J, MacNaughton N, Robinson T, 1996. NCI Migrant Farmworker Questionnaire Pre-test in Starr County, Texas. Final Report, National Cancer Institute, October 10.

Cooper S, **BURAU K**, Hanis C, Smith MA, Sweeney A, Vernon S, Wun C, Henry J, MacNaughton N, Robinson T, 1996. Tracing Migrant Farmworkers in Starr County, Texas. Final Report, National Cancer Institute, August 14.

Cooper SP, Whitehead L, Labarthe D, Downs T, Vernon S, Spitz M, Sigurdson A, New B, **BURAU K**, 1994. A critical review of cancer in Texas with emphasis on environmental and occupational exposures. Prepared for TIACT, Texas A & M University, College Station, Texas. July.

Rothstein MA, Cooper SP, Warneke C, Austin A, Craig SG, Kohlhase JE, Palumbo M, Bollum D, **BURAU KD**, Delclos G, Fletcher D, Garcia K, Parker P, Whitehead L, 1993. Occupational illness and injury in Texas: Report to Texas Legislature, March.

Alterman TA, **BURAU KD**, Wun C, 1992. Healthy coping vs. youth suicide: A model to explore the relationship. Final Report, Hogg Foundation, Houston, Texas. November.

Buffler PA, **BURAU KD**, Downs TD, Prichard HM, Rosas AL, 1990. Exposure to VDTs and reproductive outcomes: Meta-Analysis of epidemiologic studies." Prepared for I.B.M. Corporation, White Plains, New York. July 10.

Buffler PA, **BURAU K**, 1988. Review of incidence and mortality of leukemias among white male residents of Victoria county, Texas. Prepared for B.P. America, Inc, Cleveland, Ohio. July 31.

**TECHNICAL
DEVELOPMENTS:**

Developed a set of standard Stata procedures to analyze one way ANOVA, simple linear regression, autocorrelations, cross correlations, spectral analyses, and cosinor analyses with harmonics.

Developed tracking system for online field matching and identification of study subjects and logging participant procedures with update and audit features and accompanying report generation.

Developed generalized Xbase data entry procedures allowing verification and validation of data at the time of entry. The module supports screen-formatting options to mimic form design.

Developed data management programs for the conversion of data, which was transmitted using modems from at-home uterine monitoring devices to Xbase, file formats suitable for diurnal pattern analyses and statistical analyses.

Developed an occupational history coding system, including a tracking system for cohort enumeration and job history abstracting progress, as well as occupational data entry, verification and editing modules. The system includes features for collapsing similar jobs for exposure coding, and chronological display of location/task worker enumeration.

Developed exposure estimation program using dBase III to estimate lifetime occupational duration x intensity exposures based upon a DOT x SIC exposure estimate for chemical agents under study.

Developed data management system on Apple II computers for the management of case / comparison studies for the Epidemiology Research Unit, NCI, CNS Tumor and Leukemia grants.

Developed Spatial / Temporal Cluster Analysis package on the UOTHERCC Cyber computer. This package was developed in conjunction with Dr. Clayton Eifler from UT San Antonio, specifically for epidemiological analysis of Case/Control time series data.

Developed text editor for the Apple computer facilitating the manipulation of small data files on a microcomputer. This editor eliminates the necessity of custom writing programs to modify text/data files.

PROFESSIONAL ENRICHMENT:

- 2004 Multilevel Modeling Workshop (MLwiN), UTSPH
- 2003 Leadership in Times of Stress and Change, UTSPH
- 2002 Blackboard Web-based course authoring system, UTSPH
- 2002 Excellence in teaching seminar and discussion series, UTSPH
- 2000 MLwiN, Workshop, multilevel analysis package, UTSPH
- 1997 Visual FoxPro Developer Training, Application Developers, Houston, TX
- 1996 Work Shop, Windows 95: Supporting, Optimizing & Troubleshooting, Houston, TX
- 1995 Awareness Training: How to Teach the Deaf, UTSPH
- 1995 Video Instruction, Faculty Training Series, UTSPH
- 1995 Teaching Effectiveness Workshop, UTSPH
- 1995 Microsoft Access, Training Series, UTHSC/H, Human Resources Development
- 1994 Video Instruction, Faculty Training Series, UTSPH
- 1990 Training Series, FoxPro 2.0, Dallas, TX

Texas Medical Center Poster Sessions and Presentations:

Westheimer-Vojvodic R, Begley CE, Seo M, **BURAU K**, Shacks L, 2004. Emergency department use and primary care for the urban poor: evidence from Houston, Texas. The Health Services & Outcomes Research Conference, Houston TX, Nov 9

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