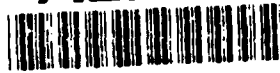


AD-A272 129



*NORTH CAROLINA'S RESPONSE TO THE  
DIRECTORATE OF HEALTH CARE STUDIES AND  
CLINICAL INVESTIGATION'S FINAL REPORT*

*ASSESSING POWER ANALYSIS APPROACHES FOR  
THE FORT BRAGG EVALUATION PROJECT  
August 31, 1993*

Personally Identifiable  
Information Redacted

93-25667



0478

28 10 22 07 8

**North Carolina's Response to the  
Directorate of Health Care Studies and  
Clinical Investigation's Final Report**

**Assessing Power Analysis Approaches for the  
Fort Bragg Evaluation Project**

**August 31, 1993**

Accession For	
NTIS CRA&I	↓
DTIC TAB	
Unannounced	
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

DTIC QUALITY INSPECTED 2



North Carolina Department of Human Resources  
Division of Mental Health, Developmental Disabilities  
and Substance Abuse Services

325 North Salisbury Street • Raleigh, North Carolina 27603 • Courier # 56-20-24

James B. Hunt, Jr., Governor  
C. Robin Britt, Sr., Secretary

September 1, 1993

Michael S. Pedneau, Director  
(919) 733-7011

Mr. Leo Sleight  
US Army Health Services Command  
Attn: HSAA-C, Bldg. 2015  
Central Contracting Office  
Ft. Sam Houston, TX 78234-6000

RE: DAD<sup>10</sup>10-89-C-0013; Fort Bragg Child/Adolescent Mental Health  
Demonstration Project; Response to the Directorate of Health  
Care Studies and Clinical Investigation's Report "Assessing  
Power Analysis Approaches for the Fort Bragg Evaluation  
Project".

Dear Leo:

We have completed our review of the Army's report prepared by the Directorate of Health Care Studies and Clinical Investigation and entitled "Assessing Power Analysis Approaches for the Fort Bragg Evaluation Project". You will find that the review was completed in two stages. First, Dr. Leonard Bickman of Vanderbilt University, our subcontractor for the evaluation, completed the technical review of the document; and second, I engaged three independent consultants to review both the Army's study and Vanderbilt's response. Given the level of concern expressed in the Army's report about the appropriateness of Vanderbilt's statistical analyses, I believe it to be important that the work of our subcontractor be scrutinized carefully. And given that the evaluation by Vanderbilt University is of the clinical program operated by another of our subcontractors, I think that careful scrutiny is prudent, especially considering the potential use of the findings.

Regarding Vanderbilt University's response, in addition to the technical analysis, they engaged two consultants to review their work. Reports are provided from the following and their curriculum vitae are included:

**Mark Lipsey, Ph.D., Professor of Public Policy, Vanderbilt University; and**

**James Mintz, Ph.D., Professor and Chief of Methodology and Statistical Services Unit, Department of Psychiatry, School of Medicine, University of California at Los Angeles.**

You will note that Dr. Lipsey is on the faculty of Vanderbilt University and he has been providing guidance to the project on the issue of power analysis. He is a recognized expert in the field of power analysis, and he is quoted as the author of a respected book on power analysis by the consultant to the Army, Asha Kapadia, who perhaps did not realize his role with the project. Dr. Bickman believed therefore that Dr. Lipsey would be a credible consultant to comment on the report.

On behalf of the State of North Carolina, I chose to engage three independent consultants who could be considered experts in three different aspects of this issue. Reports are provided from the following:

**Edward Brandt, Jr., M.D., Ph.D., Professor and Co-Director, Center for Health Policy, University of Oklahoma;**

**Kenneth Land, Ph.D., Professor and Chairman, Department of Sociology, Duke University; and Senior Research Fellow, The IC<sup>2</sup> Institute, University of Texas at Austin; and**

**Roger Straw, Ph.D., Acting Director, Office of Evaluation Extramural Policy, and Review, Center for Mental Health Services, Substance Abuse and Mental Health Services Administration.**

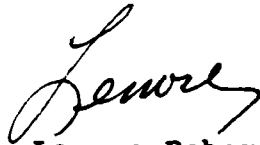
You will note that all three are men of distinction, with substantial background in statistics. Dr. Brandt has served in the U.S. Department of Health and Human Services as the Assistant Secretary of Health and the Acting Surgeon General of the U.S. Public Health Service.

You will find absolute consistency in the Vanderbilt reply and the reports provided by the five consultants. None can find any basis for the position expressed in the Army's report and none of the consultants can find any disagreement with Vanderbilt's power analysis. The consultants' responses include varying degrees of criticism for the untenable approach in the Army's report; the most generous was that the authors did not understand the study that they were reviewing; the least generous was that the authors did not understand statistical methods.

Whatever the problems that the authors of the Army's report had that led to the production of such a questionable document, I very much appreciate your wisdom in not basing your decision regarding continuation of the evaluation study on that document. We are pleased that the comparative study of clinical outcomes of children treated in the demonstration project with those treated by traditional means will continue to completion. I anticipate

that the findings will be a substantial contribution to the field of children's mental health and that both the State of North Carolina and the Department of the Army will be proud of the findings.

Sincerely,



Lenore Behar, Ph.D.  
Head, Child and Family Services Branch

LB/sw

cc: Mr. James Newman

pwranaly.rep(8)

## INDEX OF APPENDICES

Appendix A.  
Letter from Dr. Brandt, Consultant to the State of  
North Carolina

Appendix B.  
Letter from Dr. Land, Consultant to the State of  
North Carolina

Appendix C.  
Letter from Dr. Straw, Consultant to the State of  
North Carolina

Appendix D.  
Curriculum Vitae of Dr. Brandt

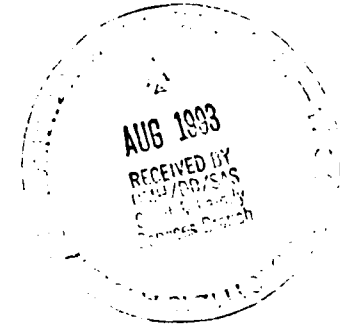
Appendix E.  
Curriculum Vitae of Dr. Land

Appendix F.  
Curriculum Vitae of Dr. Straw

Appendix A.

Letter from Dr. Brandt  
Consultant to the State of North Carolina

**EDWARD N. BRANDT, JR., M.D.**  
805 N.E. 42  
OKLAHOMA CITY, OK 73105



August 25, 1993

Dr. Lenore Behar  
Division of Mental Health Services  
325 N. Salisbury, Room 526  
Raleigh, NC 27603

Dear Doctor Behar:

I have reviewed the material sent to me on the "Fort Bragg Child and Adolescent Mental Health Demonstration Project" including the consultants to the State, to Vanderbilt University, and to the Army in addition to the power analyses conducted both by the Army and by Vanderbilt.

In my view, the power analysis by Vanderbilt is the better and best describes the actual experimental situation. Drs. Lipsey and Mintz, consultants to Vanderbilt University, have described the reasons quite well. However, let me summarize my major reasons for agreeing with them.

First, I agree that basing the power analysis on a "one-tailed t test" is inappropriate for this study since it would fail to detect worse outcomes. To evaluate health services, one must not only look for better outcomes but for those that are worse as well. Selecting only a one-tailed test raises the power for the short term test.

Second, the analysis proposed by Vanderbilt (repeated measures ANOVA) is appropriate for this project since it will utilize all (or at least most) of the data generated in the three "waves", and it is consistent with the project design. Other analyses would not fulfill the latter.

Third, the power analysis performed by Vanderbilt is an accepted and acceptable method for the analysis they propose. Further, I find no flaws in the power analysis performed by the Army. However, the statistical test chosen is not the best, and so the power calculations are not appropriate.

Finally, I find nothing in the letters from Drs. Lipsey and Minsky with which I disagree, and I believe the detail in Dr. Lipsey's letter supports my assertions cited above.



In conclusion, it is my view that the Vanderbilt University statistical method is the most appropriate for the project design and that their power analysis is also appropriate. In my judgement, the project should continue as designed.

Thank you for this opportunity. It is a fascinating project, and should yield important results for providing services to children.

My warm best wishes,



Edward N. Brandt, Jr., M.D., Ph.D.  
Co-Director, Center for Health Policy  
Professor, Department of Health  
Administration and Policy

Appendix B.

Letter from Dr. Land  
Consultant to the State of North Carolina

# Duke University

DURHAM  
NORTH CAROLINA  
27708-0088

DEPARTMENT OF SOCIOLOGY  
BOX 90088

TELEPHONE (919) 660-5614  
FAX (919) 660-5623

August 24, 1993

Lenore Behar, Ph.D.  
Special Assistant for Child & Family Services  
Division of Mental Health, Developmental  
Disabilities and Substance Abuse Services  
North Carolina Department of Human Resources  
325 N. Salisbury Street  
Raleigh, NC 27603

AUG 1993

Dear Dr. Behar:

I now have spent considerable time studying the package of materials you sent to me concerning the power analysis of the evaluation of the Fort Bragg Child and Adolescent Mental Health Demonstration Project. This includes: i) the executive summary of the Demonstration Project, ii) Vanderbilt University's statement of work for the evaluation of the Demonstration Project, iii) Vanderbilt University's power analysis for the evaluation project, iv) the Army critique and alternative analysis (CR93-002), v) Vanderbilt University's response to the Army report, vi) the letter from the Army's consultant (Asha S. Kapadia, Ph.D.) and Vanderbilt University's response to Dr. Kapadia, vii) the letters from consultants to Vanderbilt University (Mark W. Lipsey, Ph.D. and Jim Mintz, Ph.D.), and viii) the letter from the consultant to the State (Roger Straw, Ph.D.).

On the basis of my review and studies of these documents, I have formed a number of conclusions and recommendations:

(1) First, and perhaps most importantly, the Army's power analysis for judging the adequacy of the two research plans is seriously flawed. The 1-tailed t-test on wave 3 data applied in the Army's analysis would be appropriate if participants had been randomly assigned to experimental and control groups. As the Vanderbilt group points out in more than one document, this would provide assurance that participant characteristics on entrance into the Project were randomized with respect to the treatment program. But participants were not randomly assigned. This opens the possibility that the treatment and control group participants differed before assignment, and, indeed, the Vanderbilt group provides evidence that this is the case with respect to a number of measured variables. What the Vanderbilt group does not emphasize is that it also is possible that the two

groups differed with respect to a number of unmeasured or unobserved variables at intake (in the technical literature, this is called "hidden heterogeneity"). The consequence is that the t-test on wave 3 data confounds the effect of treatment with status at intake. In addition to making impossible a clean causal analysis of the Project data, this very simply and clearly invalidates the simple t-test.

(2) Secondly, the repeated measures ANOVA design proposed by the Vanderbilt group is an appropriate approach to the statistical analysis of the Project data. Of course, the power analysis conducted on the basis of this design implies that larger numbers of cases are necessary to complete the evaluation project; i.e., that the long-term data collection plan should be adopted. Alternatively, as Vanderbilt consultant Dr. Jim Mintz notes, a Bonferroni adjustment could be applied to two waves of Project data. This effectively would require use of  $p=.025$  rather than  $.05$  in the Army's 1-tailed t-test analysis, which again would point to the need for data on a larger number of Project participants.

(3) Thirdly, I found most interesting the discussion by Dr. Mark Lipsey of the implications for the analyses of raising the power threshold, i.e., of using a two-tailed alpha of  $.05$  and raising beta to  $.90$ . As he indicates, this is very sensible when important, policy-relevant treatment effects are at issue. It also makes even more inadequate the short-term plan.

(4) Fourth, it seems clear to me that both the statisticians who produced the Army report CR93-002 (Dr. Wojcik, Ms. Stein, and Dr. Optenberg) and the Army's statistical consultant (Dr. Kapadia) either i) did not fully understand that the subjects of the Fort Bragg Project were not randomly assigned to experimental and control groups (as noted in point (1) above), or ii) if they were aware of this, did not understand the implications of it. If these scientists were not fully aware of the nonrandom assignment of Project participants, then this would explain their use of "off the shelf" textbook techniques for calculation of the numbers of subjects required to produce specified levels of statistical power. On the other hand, if these individuals were fully aware and cognizant of the nonrandom assignment, then they failed to appreciate the fact that this would seriously flaw the calculations they produced.

(5) Fifth, I similarly found much confusion on the part of the Army statisticians and statistical consultant over the use, meaning, and implications of the Vanderbilt Monte Carlo simulation analysis to compute sample sizes (N sizes) necessary

Dr. Behar  
August 24, 1993  
Page 3

to reach a certain power level. Note that the objective here is to calculate the required N sizes. Under conditions of random assignment of subjects to experimental and control groups, certain textbook formulas can be taken "off the shelf" (e.g., from books authored by Cohen and Lipsey) and applied to the data. Furthermore, because the mathematics in this simple case is relatively tractable, these formulas are what are called "closed-form" or "analytic" equations; i.e., one can simply plug the requisite experimental parameters in and compute out an exact number for the required N sizes, as demonstrated in the Army report CR93-002. But a statistician could accomplish the same thing by pretending that the closed-form formulas did not exist and conducting a Monte Carlo simulation analysis to compute the required N sizes. While the N sizes computed in any given simulation analysis of a finite number of ANOVA runs will differ somewhat from the N sizes computed from the textbook formulas, there is an impressive body of probability theory and statistical experience that implies that the simulation results should converge to the "analytic" solution, as the numbers of ANOVA simulation runs increase without bound (i.e., become very large).

Now, what should a statistician do to conduct a power analysis when the experimental situation is such that it is inappropriate to apply the standard closed-form textbook formulas (as in the present case)? Well, in this age of inexpensive and powerful PC or work station computing, one conducts a Monte Carlo simulation analysis that is "appropriate" and "valid" for the situation at hand. This is what the Vanderbilt researchers attempted to do.

In my opinion, the proper Army response should have been to study the extent to which the Vanderbilt simulations reached the goal of being appropriate and valid for the Fort Bragg study. One thing the Army could have asked for, as evidence of validation of the Vanderbilt study, is that the Monte Carlo simulation be capable of reproducing the results obtained from the textbook formulas that are appropriate for a randomized experiment. Interestingly, this replication was provided in the Vanderbilt response to the Army report. While the fact that the Monte Carlo simulation is capable of reproducing the results that can be obtained from application of the textbook formulas does not necessarily imply that the simulation is fully appropriate and valid for the non-textbook situation of the Fort Bragg study, it nevertheless does add some confidence that the simulation is valid and appropriate.

Dr. Behar  
August 24, 1993  
Page 4

In addition to this, I would have thought it appropriate for the Army perhaps to request that the Vanderbilt team modify certain parameters and assumptions used in the simulation study and produce some alternative simulations to further study the robustness of the simulation results. What the Army report does instead, as Dr. Lipsey notes, is cast aspersions on the Vanderbilt analysis by presenting selected quotes from dated textbooks in operations research and econometrics to the effect that poor simulations yield poor results. This point-of-view completely ignores the simulation revolution that has been sweeping statistics over the past decade or so, as computing power has increased and costs have decreased. Simulations, of the type conducted by the Vanderbilt group, are becoming increasingly common and are allowing statisticians to study situations for which closed-form analytic solutions from standard textbooks are not available or are inappropriate.

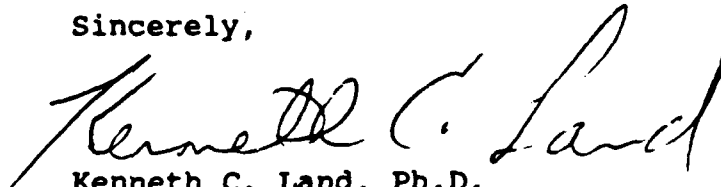
(6) In conclusion, on the basis of the analyses and critiques available to me at this time, it seems clear to me that the long-term plan for completing the evaluation is the most appropriate from the perspective of statistical power.

Let me add that, on the basis of evaluation research I have recently conducted on an intervention that similarly required active counseling, I also would favor a longer-term evaluation of the Fort Bragg Project. The reason is that we found some decline in the enthusiasm and involvement of counselors in the later phases of a three-year evaluation project as compared to the earlier phases -- an outcome that we labeled "counselor burnout" and related to the "Hawthorne effect" of classic industrial relations experiments from the 1930s. The consequence for this study was a decline in the treatment effect over time (see the enclosed reprint, "Intensive Supervision of Status Offenders..."). I do not know whether or not there are similar circumstances or opportunities for a decline in enthusiasm or involvement of providers in the Fort Bragg Project, but my preference would be to let the project run sufficiently long so that any such effects would eventuate.

Dr. Behar  
August 24, 1993  
Page 5

I appreciate the opportunity to comment on this very interesting evaluation project and the exchanges it has generated. If you have any additional questions, please contact me at (919) 660-5615.

Sincerely,

A handwritten signature in cursive script that reads "Kenneth C. Land". The signature is written in dark ink and is positioned above the typed name and title.

Kenneth C. Land, Ph.D.  
John Franklin Crowell Professor  
and Chairman of Sociology  
Fellow, American Statistical  
Association

Appendix C.

Letter from Dr. Straw  
Consultant to the State of North Carolina





Substance Abuse and Mental  
Health Services Administration  
Rockville MD 20857

July 27, 1993

JHC

Lenore Behar, Ph.D.  
Head, Child and Family Services  
Division of Mental Health, Developmental  
Disabilities, and Substance Abuse Services  
325 North Salisbury Street  
Raleigh, North Carolina 27603

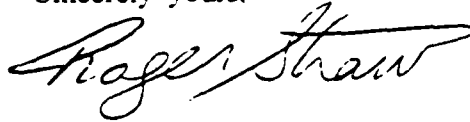
Dear Dr. Behar:

As you requested, I have reviewed the Vanderbilt power analysis, the Army critique and alternate analysis, and the two reviews (Drs. Kapadia and Lipsey) completed prior to the time I was sent the materials. On the narrow question of which group has presented the better case for their preferred data collection strategy, I agree completely with Dr. Lipsey's conclusion that the Army's power analysis is seriously flawed for purposes of judging the adequacy of the two plans and that the Vanderbilt power analysis is more technically appropriate. The critical flaw in the Army's analysis is that their statistical test is inappropriate to the study design; the reasons are clearly explicated in Dr. Lipsey's comments. In addition, the critiques of the Vanderbilt approach by the Army and by Dr. Kapadia are not at all convincing. They do not address the issue of why their proposed analytic approach is more appropriate as a basis for power analysis than is the Vanderbilt approach, nor do they offer an alternative to the Monte Carlo procedure used by Vanderbilt.

On a broader level, the question of whether the primary analysis strategy proposed by the Vanderbilt group maximizes both appropriateness with respect to the presumed structure of the study and potential power is a question for which there is no simple answer. As several of the reports indicate, there are analysis strategies for improving internal validity as well as for improving statistical power that depend on factors such as the reasons for non-equivalency (i.e., selection biases), measurement error, and the regression of pretest scores on post-test scores. Sensitive analysis of the data would be necessary to address these issues. However, the gain, or loss, in statistical power is not likely to be enormous relative to the repeated measures approach proposed by the Vanderbilt group. In addition, these analytic strategies can still be used with the data at the appropriate time and their usefulness tested empirically.

In summary, the long-term plan for completing the evaluation is clearly more appropriate from the perspective of power. The additional data collection is, in my opinion, essential to ensure that the evaluation can detect the hypothesized effect of the "integration" activity, if it exists. If you have any additional questions, please do not hesitate to contact me at (301-443-7883).

Sincerely yours,

A handwritten signature in cursive script that reads "Roger Straw". The signature is fluid and written in black ink.

Roger Straw, Ph.D.

Acting Director

Office of Evaluation, Extramural Policy, and Review

Appendix D.

Curriculum Vitae of Dr. Brandt

# CURRICULUM VITAE

**EDWARD N. BRANDT, JR., M.D., PH.D.**

Social Security Number: [REDACTED]

Professor and Co-Director  
Center for Health Policy  
University of Oklahoma Health Sciences Center  
P.O. Box 26901  
Oklahoma City, Oklahoma 73190  
405/271-3230

## BIOGRAPHICAL

Date and Place of Birth [REDACTED]

Marital Status [REDACTED]

Children [REDACTED]

Home Address [REDACTED]

## EDUCATION AND DEGREES

1954	B.S. (Mathematics)	The University of Oklahoma Norman, Oklahoma
1955	M.S. (Mathematics)	Oklahoma State University Stillwater, Oklahoma
1960	M.D.	The University of Oklahoma Medical Center Oklahoma City, Oklahoma
1960-61	Internship	Veterans Administration Hospital Oklahoma City, Oklahoma
1961-62	Residency (5 Months)	The University of Oklahoma Medical Center Oklahoma City, Oklahoma
1963	Ph.D.(Biostatistics)	The University of Oklahoma Medical Center Oklahoma City, Oklahoma
1984	Doctor Of Humane Letters (LHD) Honorary	Medical University of South Carolina Charleston, South Carolina

## **EDUCATION & DEGREES (cont'd)**

1984	Doctor of Science (DSC) Honorary	New York Institute of Technology Old Westbury, New York
1985	Doctor of Humane Letters (LHD) Honorary	Rush University of Health Sciences Chicago, Illinois

## **PROFESSIONAL EXPERIENCE**

### **A. Academic Appointments**

#### **1. University of Oklahoma, Norman, Oklahoma**

1955-56 Special Teaching Assistant, Department of Mathematics

1961-69 Research Associate, Department of Mathematics

1964-69 Assistant Professor, Department of Civil Engineering

#### **2. University of Oklahoma Medical Center, Oklahoma City, Oklahoma**

1961-67 Instructor to Associate Professor, Department of Preventive Medicine, School of Medicine

Instructor to Assistant Professor, Department of Medicine, School of Medicine

1967-68 Professor and Chairman, Department of Biostatistics and Epidemiology, School of Health

1967-70 Professor, Department of Preventive Medicine, School of Medicine

Associate Professor, Department of Medicine, School of Medicine

Professor, Department of Biostatistics and Epidemiology, School of Health

#### **3. University of Texas Medical Branch at Galveston, Galveston, Texas**

1970-84 Professor, Department of Preventive Medicine and Community Health, School of Medicine

1973-84 Professor, Department of Family Medicine, School of Medicine

1970-84 Member, Graduate School of Biomedical Sciences

## **PROFESSIONAL EXPERIENCE - Academic Appointments (cont'd)**

### **4. University of Maryland at Baltimore**

1985-89 Professor, Department of Epidemiology and Preventive Medicine

1985-89 Professor, Department of Family Medicine

### **5. University of Oklahoma Health Sciences Center**

1989- Professor, Department of Internal Medicine, College of Medicine

1989- Adjunct Professor, Department of Family Medicine, College of Medicine

1989-92 Adjunct Professor, Department of Health Administration, College of Public Health

1989- Adjunct Professor, Department of Biostatistics and Epidemiology, College of Public Health

1992- Co-Director Center for Health Policy and Professor, Department of Health Administration and Policy

## **B. Administrative Appointments**

### **1. University of Oklahoma Medical Center, Oklahoma City, Oklahoma**

1962-65 Director, Medical Research Computer Center

1962-67 Director, Biostatistical Unit

1965-68 Director, Computer Operations

1967-68 Assistant to the Vice President for Medical Affairs

1968-70 Associate Director of the Medical Center and Associate Dean, School of Medicine

### **2. University of Texas Medical Branch at Galveston, Galveston, Texas**

1970-74 Dean, Graduate School

1972-73 Associate Dean for Clinical Affairs, School of Medicine

1973-74 Acting Dean of Medicine

1974-76 Dean of Medicine

1974-77 Chairman, Academic Council

1976-77 Executive Dean

## **PROFESSIONAL EXPERIENCE - Administrative Appointments (cont'd)**

3. **University of Texas System Administration, Austin, Texas**  
1977-81      **Vice Chancellor for Health Affairs**
  
4. **U.S. Department of Health and Human Services, Washington, D.C.**  
1981-84      **Assistant Secretary for Health**  
  
11/4-16,      **Acting Secretary**  
1983  
  
3/1-11/1,      **Acting Surgeon General, U.S. Public Health Service**  
1981
  
5. **University of Maryland at Baltimore**  
  
1985-88      **Chancellor**  
  
1988-89      **President (Title Changed)**
  
6. **University of Oklahoma College of Medicine**  
  
1989-92      **Executive Dean**

## **COMMITTEE AND OTHER RESPONSIBILITIES**

### **A. International**

- 1982-84      **Member (representing United States), Executive Board, World Health Organization (Presidential Appointment)**  
  
Served on Program, Drug Policy, and Non-Governmental Organizations Committees
- 1981-84      **U.S. Delegate to Pan American Health Organization**

### **B. National**

- 1962-67      **Consultant, Civil Aeromedical Research Institute Aviation Agency, Oklahoma City, Oklahoma**
- 1963-67      **Consultant, Medical Research Division, The Upjohn Company, Kalamazoo, Michigan**
- 1968-71      **Member, Scientific Awards Committee, American Society of Clinical Pharmacology and Therapeutics**

## **COMMITTEE & OTHER RESPONSIBILITIES - National (cont'd)**

- 1968-71      Chairman, Advisory Committee Traineeship Program in Biometry, Veterans Administration
- 1968-73      Member, Board of Regents, American Society of Clinical Pharmacology and Therapeutics
- 1969-70      Site Visit Consultant, Division of Physician Manpower, National Institutes of Health
- 1970-77      Faculty Advisor, National Student Research Forum
- 1971-72      Chairman, Committee to Effect the Optimization of Medical Statistical Interaction, American Statistical Association
- 1972-73      Member, Special Review Committee, Federal-State-Local Cooperative Health Data System, Health Services and Mental Administration
- 1973-74      Associate Editor, CONTINUING EDUCATION FOR THE FAMILY PHYSICIAN
- 1974-77      Editor, CONTINUING EDUCATION FOR THE FAMILY PHYSICIAN
- 1974-81      Faculty Advisor, National Council on Student Scientific Forums
- 1975-79      Member, Primate Research Centers Advisory Committee, Division of Research Resources, National Institutes of Health; Chairman, 1978-79
- 1976-77      Chairman, Southern Region Council of Deans, Association of American Medical Colleges
- 1976-79      Member, Warner/Chilcott Residency Award Committee, American Academy of Family Physicians
- 1977-81      Member, Advisory Committee on Continuing Medical Education, American Medical Association
- 1977-79      Vice Chairman, Section on Medical Schools, American Medical Association
- 1977-79      Member, Review Committee, Liaison Committee on Continuing Medical Education
- 1977-79      Member, Ad Hoc Committee on Foreign Medical Graduates, American Medical Association
- 1978-79      Member, Panel: Computer Technology and Physician Competence, Office of Technology Assessment, Congress of the United States
- 1979-81      Chairman, Section on Medical Schools, American Medical Association



## **COMMITTEE & OTHER RESPONSIBILITIES - National (cont'd)**

- 1979-80      Chairman, Committee on Accreditation of Continuing Medical Education, American Medical Association
- 1980-81      Consultant, Commission to Evaluate Foreign Medical Schools, Federation of State Medical Boards
- 3/81-11/81    Member, Board of Governors, Uniformed Services University of the Health Sciences
- 3/81-11/81    Member, Board of Regents, National Library of Medicine
- 1981-84      Member, Board of Governors, American Red Cross (Presidential Appointment)
- 1981-84      Member, National Arthritis Board, Department of Health and Human Services
- 1981-84      Member, National Diabetes Board, Department of Health and Human Services
- 1981-84      Member, National Digestive Disease Board, Department of Health and Human Services
- 1981-84      Chairman, Principal Working Group on Health, U.S. Emergency Preparedness Mobilization Board
- 1981-84      Member, Federal Coordinating Council on Science, Engineering and Technology, U.S. Government
- 1981-84      Member, Working Group on Food Safety, U.S. Cabinet Council on Human Resources
- 1981-82      Chairman, Interagency Radiation Research Committee, U.S. Government
- 1982-84      Chairman, Interagency Committee on Human Experimentation, U.S. Government
- 1982-84      Chairman, Executive Committee on Health Promotion, Department of Health and Human Services
- 1982-84      Chairman, Orphan Products Board, Department of Health and Human Services
- 1982-84      Chairman, Health Data Advisory Board, Department of Health and Human Services
- 1983-84      Chairman Pro-Tem, Agent Orange Working Group, U.S. Cabinet Council on Human Resources
- 1983-84      Member, Interagency Risk Management Council, U.S. Government
- 1984-84      Member, Working Group on Bio-Technology, U.S. Cabinet Council on Natural Resources

## **COMMITTEE & OTHER RESPONSIBILITIES - National (cont'd)**

- 1985-91 Member, Science Advisory Committee, General Motors Corporation
- 1985-92 Member Advisory Council on Health Promotion, American Council on Life Insurance and Health Insurance Association of America
- 1985-93 Member-at-Large, National Board of Medical Examiners
- 1985-86 Chairman, Ad Hoc Committee on Science Policy, Association of American Medical Colleges
- 1985-89 Member, Board of Regents, National Library of Medicine, Chairman, 1987-89
- 1985-86 Member, Task Force on Physician Manpower American Medical Association
- 1986-91 Member, Governing Council, Institute of Medicine/National Academy of Sciences (Executive Committee 1986-87) (Vice Chairman 1987-91)
- 1986-86 Member, Nominating and Program Committees, Association of Academic Health Centers
- 1986-89 Chairman, Advisory Committee on Graduate Medical Education, U.S. Department of Defense
- 1986-88 Member, Board of Directors, National AIDS Network (Vice-Chairman 1987-88)
- 1986- Principal, The Center for Excellence in Government
- 1986-89 Member, Executive Council, Association of American Medical Colleges
- 1987-88 Member, Association of American Medical Colleges - Association Academic Health Centers Forum
- 1987-90 Member, Joint Committee on Health Policy, AAU, NASULGC and ACE
- 1987-91 Member, Board of Directors, National Leadership Coalition on AIDS, Chairman, 1987-89
- 1987-91 Member, Advisory Council on Hazardous Substances Research and Training, National Institute of Environmental Health Sciences
- 1987-89 Member, Research Advisory Council, National Organization for Rare Disorders
- 1987- Member, Special Medical Advisory Group, U.S. Veteran's Administration
- 1988-90 Chairman, Committee on Implementation of Dietary Guidelines, National Research Council/National Academy of Sciences

## **COMMITTEE & OTHER RESPONSIBILITIES - National (cont'd)**

- 1988- Member and Vice-Chairman, Secretary's Council on Health Promotion, Department of Health and Human Services
- 1988- Member, Board of Trustees, University of Oklahoma College of Medicine Alumni Association (Treasurer, 1993-94)
- 1988-91 Editor, AIDS & Public Policy Journal
- 1988- Member, Board of Directors, Foundation for Biomedical Research
- 1989-93 Chairman, National Advisory Council on Injury Prevention and Control, Centers for Disease Control
- 1989- Chairman, Robert Wood Johnson Health Policy Fellowship Board, Institute of Medicine/National Academy of Science
- 1990-90 Chairman, Committee on AMA-AHA-AAMC Medical Education Conference
- 1990- President and Chairman, Board of Directors, Institute for Science in Society
- 1991-93 Chairman Elect and Chairman, Medical Sciences Section, American Association for the Advancement of Science
- 1991- Member, Kaiser Foundation Commission on the Future of Medicaid
- 1991- Member, Board of Directors, Partnership for Prevention
- 1992- Chair, Food Advisory Council, Food and Drug Administration
- 1992- Chairman, Health Statistics Forum, Institute of Medicine/National Academy of Sciences

### **C. State**

- 1966-68 Member, Vocational Rehabilitation Advisory Committee, State of Oklahoma
- 1972-75 Member, Scientific Program Committee, Texas Academy of Family Physicians
- 1974-81 Consultant, Council on Medical Education and Hospitals, Texas Medical Association
- 1974-81 Chairman, Task Force on Graduate Medical Education and Teaching Hospitals, Texas Medical Association
- 1975-81 Member, Education Committee and Subcommittee on Core Curriculum, Texas Academy of Family Physicians
- 1976-81 Chairman, Task Force on Access to Health Care, Texas Medical Association

## **COMMITTEE & OTHER RESPONSIBILITIES - State (cont'd)**

- 1979-81      **Chairman, Task Force on Physician Manpower, Texas Medical Association**
- 1980-81      **Chairman, Medical Education Management Effectiveness Council, Governor, State of Texas**
- 1980-81      **Member, Committee to Enhance Leadership and Organizational Effectiveness, Texas Academy of Family Physicians**
- 1980-81      **Member, Future Planning Committee, Texas Academy of Family Physicians**
- 1985-86      **Chairman, Task Force on AIDS, Governor, State of Maryland**
- 1986-86      **Chairman, Task Force on Geriatrics, Governor, State of Maryland**
- 1986-88      **Vice Chairman, Task Force on Black and Minority Health, Governor, State of Maryland**
- 1986-89      **Member, Committee on Public Health, Medical and Chirurgical Faculty of Maryland**
- 1987-89      **Chairman, AIDS Advisory Council, Governor, State of Maryland**
- 1987-89      **Member, Board of Directors, Central Maryland Chapter, American Red Cross**
- 1987-89      **Member, Committee on Geriatrics and Long-Term Care, Medical and Chirurgical Faculty of Maryland**
- 1989-        **Member, Oklahoma State Medical Association Council on Medical Education and Accreditation**
- 1989-        **Member, Oklahoma State Medical Association Council on State Legislation and Regulation**
- 1989-90     **Member, Interim Legislative Task Force on State Employee Insurance Program, appointed by President Pro Tempore, Oklahoma Senate**
- 1989-90     **Chairman, Oklahoma Health Organization Study Commission  
- Gubernatorial Appointment**
- 1990-90     **Member, Ad Hoc Committee on Governance of the Oklahoma Medical Center  
- Gubernatorial Appointment**
- 1990-        **Member, OSMA-OUHSC Liaison Committee (Co-Chair, 1990-92)**
- 1990-        **Member, Alzheimer's Disease Research Council (Chair, 1990-92)  
- Gubernatorial Appointment**
- 1992-        **Member, Council on Federal Government Relations Oklahoma State Medical Association**

## **COMMITTEE & OTHER RESPONSIBILITIES - State (cont'd)**

- 1993- Chair, Committee on Domestic Violence, Oklahoma State Medical Association
- 1993- Member, Board of Directors, Oklahoma Medical Political Action Committee
- 1993- Elected Member, House of Delegates, Oklahoma State Medical Association
- 1993- Chair, Committee on Domestic Violence, Oklahoma State Medical Association
- 1993- Vice-Chair, Committee on Violence and Public Health, State of Oklahoma
- 1993- Member, Advisory Council, Oklahoma Health Information System, State of Oklahoma
- 1993- Member, Advisory Committee on Preventive Services, Oklahoma Department of Health

### **D. Local**

- 1965-70 Consultant, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma
- 1971-77 Member, Medical Advisory Board, Galveston County Coordinated Community Clinics
- 1972-76 Member, Career Opportunities Scholarship Committee, The Moody Foundation, Galveston, Texas
- 1973-74 Secretary, Galveston Chapter, Society of the sigma Xi
- 1974-75 President, Texas Alpha Chapter, Alpha Omega Alpha
- 1974-75 Member, Program Committee, Galveston County Medical Society
- 1975-77 Member, Board of Directors, Houston-Galveston Psychoanalytic Foundation
- 1975-77 Member, Board of Trustees, William Temple Foundation, Texas
- 1975-77 Member, Scientific Advisory Committee, Houston Gulf Coast Chapter, National Foundation for Ileitis and Colitis
- 1976-77 Chairman, Program Committee and Member, Executive Committee Galveston County Medical Society
- 1979-81 Member, Committee on Government Relations, Travis County Medical Society
- 1985-86 Member, Advisory Committee on Venture Capital, Mayor, City of Baltimore

## **COMMITTEE & OTHER RESPONSIBILITIES - Local (cont'd)**

- 1985-89 Member, Economic Development Committee, Greater Baltimore Committee
- 1985-86 Co-Chairman, Panel on Education, Regional Planning Council
- 1986-88 Member, Board of Trustees, Education Center, Shepard and Pratt Hospital
- 1990-92 Member, Ex-officio, Board of Trustees, Oklahoma County Medical Society

## **MEMBERSHIP IN SOCIETIES**

### **A. Professional**

American Association for the Advancement of Science  
Oklahoma State and American Medical Association  
Oklahoma and American Academy of Family Physicians

### **B. Honorary**

Phi Eta Sigma

Alpha Epsilon Delta

Phi Kappa Phi

Phi Sigma

Pi Mu Upsilon

Alpha Omega Alpha

Sigma Xi

## **HONORS**

- 1961 Award for Outstanding Paper by an Intern, Oklahoma House Staff Association
- 1961 Superior Performance Award, Veterans Administration Hospital, Oklahoma City, Oklahoma
- 1962 Award for Outstanding Paper in Internal Medicine (co-recipient), Oklahoma House Staff Association
- 1966 Nineteenth Annual Stoneburner Lecturer, Medical College of Virginia
- 1967 Second Prize, Scientific Exhibits, American Society of Anesthesiologist (co-recipient)

## HONORS (cont'd)

- 1968 Certificate of Merit, Scientific Exhibits, American Medical Association (co-recipient)
- 1972 An Outstanding Educator of America for 1972
- 1974 Lloyd M. Southwick Memorial Award for best contribution to GP PRESS, Texas Academy of Family Physicians
- 1974 Texas Academy of Family Physicians' Special Award, "In Recognition of Significant Contributions to the Teaching of Family Medicine"
- 1975 The Nicholas and Katherine Leone Award for Administrative Excellence, The University of Texas Medical Branch at Galveston
- 1975 Lloyd M. Southwick Memorial Award for best contribution to GP PRESS, Texas Academy of Family Physicians
- 1975 Award for Meritorious Service, Texas Academy of Family Physicians
- 1975 Selected by Mu Delta Honorary Service Fraternity for dedication of the 1975 SYNDROME (Yearbook of the University of Texas Medical Branch at Galveston)
- 1976 Elected to Membership, Philosophical Society of Texas
- 1977 Outstanding Alumni Service Award "for outstanding contribution in academic medicine", Alumni Association University of Oklahoma College of Medicine (First such award)
- 1977 Distinguished Service Award "for outstanding contribution and dedicated service", The University of Texas Medical Branch at Galveston
- 1978 Award for Meritorious Service, Texas Academy of Family Physicians
- 1979 Elected Distinguished Service Member of the Association of American Medical Colleges
- 1981 Elected to Membership in the Institute of Medicine of the National Academy of Sciences
- 1981 Named "Outstanding Oklahoman" by Oklahoma State Society of Washington D.C.
- 1981 First Annual Lecturer, Thomas N. Lynn, Jr. Lectureship, University of Oklahoma Health Sciences Center
- 1981 Named "Territorial Marshal" by Governor, State of Oklahoma
- 1982 Presented Key to City of Kansas City by Mayor
- 1982 American College of International Physicians Award "in recognition of professional contribution to the promotion of the health of all people and the advancement of medicine"

## **HONORS (cont'd)**

- 1983 Lecturer, R. Arnold Griswold Lectureship, University of Louisville School of Medicine
- 1983 Bronze Medallion Seal Award, Department of Health and Human Services
- 1983 Appointed Admiral, Texas Navy, by Governor, State of Texas
- 1984 Distinguished Health Service Award, New York Medical College
- 1984 Citation in Appreciation of Distinguished Contribution to Public Health, American College of Chest Physicians
- 1984 Director's Award "for outstanding contributions to the field of Health Statistics", National Center for Health Statistics, U.S. Public Health Service
- 1984 Presented Key to City of Dallas by Mayor
- 1984 Harvey Wiley Award, Food and Drug Administration
- 1984 Distinguished Leadership Award, Department of Health and Human Service (Highest Department Award)
- 1984 Commissioner's Special Citation, Food and Drug Administration
- 1984 Resolution of Commendation, American Medical Association House of Delegates
- 1985 Convocation Medalist, American College of Cardiology
- 1985 Honorary Fellow, American College of Cardiology
- 1985 Award of Special Recognition, American Council on Transplantation
- 1985 Annual Recognition Award for "Distinguished Contributions to Health Care", American Association of Physicians for Human Rights
- 1985 Special Recognition Award for "Outstanding Contributions to Medical Research and Education", Association of American Medical Colleges
- 1985 Award for Exceptional Achievement in Orphan Products Development, U.S. Public Health Service
- 1985 Elected Fellow, American College of Medical Informatics
- 1986 Alpha Omega Alpha Visiting Professor, Texas A&M University
- 1986 Keynote Lecturer, National Student Research Forum, Galveston, Texas
- 1986 Award for Outstanding Service, National Disaster Medical System, U.S. Government



## **HONORS (cont'd)**

- 1987 Certificate of Appreciation, Baltimore Federal Executive Board
- 1987 Distinguished Public Service Award, U.S. Department of Defense  
(Highest Department Award)
- 1987 First Annual Lecturer, Robert M. Bird Society, University of Oklahoma College of Medicine
- 1988 Award for "Distinguished Community Service", Health, Education and Resources  
Organization, Baltimore, Maryland
- 1988 President's Award, American Association of Public Health Dentistry
- 1989 Resolution of Appreciation, Board of Regents, University of Maryland System
- 1989 Distinguished Alumni Award, Central High School, Oklahoma City, Oklahoma
- 1989 Establishment of Edward N. Brandt, Jr. Award, National Leadership Coalition on AIDS
- 1990 Central High School, "Outstanding Life Achievement Award"
- 1990 Oklahoma County Historical Society Cardinal Service Award for "Distinguished Career in  
Medicine"
- 1992 Presidential Citation, Oklahoma State Medical Association
- 1992 Public Health Award, American Academy of Family Physicians for "Extraordinary  
Contributions to Public Health".

## **LISTINGS**

American Men and Women of Science

Who's Who in America

Who's Who in the Southwest

Who's Who in the East

Who's Who in the Frontiers of Science and Technology

## **MILITARY SERVICE**

1981-84 U.S.P.H.S., Assistant Surgeon General, RADM-08

## **PUBLICATIONS**

### **A. Journal Articles**

1. Mock, D.C., A.A. Kyriakopoulos, M.L. Clark, J.A. Hagans, E.N. Brandt, Jr., and S.G. Wolf. 1959. "Variability of Diuretic Response as Influenced by the State of the Organism: A Note on the Law of Initial Values." *Am. J. Med. Sci.* 238:193.
2. Brandt, E.N., Jr. 1960. "Medical Statistics: It's Concept and Uses". *J. Okla. State Med. Assoc.* 53:147.
3. Brandt, E.N., Jr. 1962. "Gastric Secretion and the Law of Initial Value". *Ann. N.Y. Acad. Sci.* 98:1291.
4. Brandt, E.N., Jr., J.A. Hagans, and W.W. Schottstaedt. 1962. "The Computer as a Diagnostic Aid in Medicine". *J. Okla. State Med. Assoc.* 55:213.
5. Brandt, E.N., Jr., and P.O. Stephenson. 1962. "Tuberculosis of the Liver". *J. Okla. State Med. Assoc.* 55:92.
6. Brandt, E.N., Jr., and J.D. Welsh. 1962. "The ABO Blood Groups and Muscular Dystrophy". *Arch. Neurol.* 6:387.
7. Mannerberg, F.D., E.N. Brandt, Jr., and M.B. Shook. 1962. "Cholesterol Pleural Effusion". *J. Okla. State Med. Assoc.* 55:378.
8. Welsh, J.D., E.N. Brandt, Jr., and P.T. Condit. 1962. "Effect of Amethopterin on the Visceral Concentration of Co B12 in the Mouse". *Proc. Soc. Exp. Biol. Med.* 109:734.
9. Brandt, E.N., Jr. 1963. "Foundations of Biostatistics". *Okla. J. Pub. Health.* 7:7.
10. Brandt, E.N., Jr. and M.F. Shackelford. 1963. "Electronic Computers in Public Health". *Okla. J. Pub. Health.* 1:25.
11. Hughes, W.L., J.M. Kalbfleisch, E.N. Brandt, Jr. and J.P. Costiloe. 1963. "Myocardial Infarction Prognosis by Discriminant Analysis". *Arch. Int. Med.* 111:338.
12. Ridings, G.R. and E.N. Brandt, Jr. 1963. "Some Aspects of Cancer Registry Procedures at the University of Oklahoma Hospital". *J. Okla. State Med. Assoc.* 56:431.
13. Mannerberg, F.D., J.B. Delashaw and E.N. Brandt, Jr. 1964. "Amebiasis". *J. Okla. State Med. Assoc.* 57:25.
14. Payne, R.W., E.J. Sorenson, T.K. Smalley and E.N. Brandt, Jr. 1964. "Diazepam, Meprobamate, and Placebo in Musculoskeletal Disorders". *JAMA.* 188:229.

## **PUBLICATIONS - Journal Articles (cont'd)**

15. Stout, L.C., J. Morrow, S.G. Wolf and E.N. Brandt, Jr. 1964. "Unusually Low Death Rate from Myocardial Infarctions in Italian-Americans in Pennsylvania". *JAMA*. 188:845.
16. Brandt, E.N., Jr. 1966. "Electrocardiographic Interpretation by Digital Computers". *J. Okla. State Med. Assoc.* 59:242.
17. Brandt, E.N., Jr. 1966. "The Future Effect of the Computer and the Research Scientist on Medical Practice". *Med. Coll. Virginia Quart.* 2:234.
18. Brandt, E.N., Jr. 1966. "Applications of Computers to Medicine". *Med. Coll. Virginia Quart.* 2:238.
19. Bruhn, J.G., E.N. Brandt, Jr. and M.F. Shackelford. 1966. "Incidence of Treated Mental Illness in Three Pennsylvania Communities". *Am. J. Pub. Health.* 56:871.
20. Hampton, J.W., J. Mantooth, E.N. Brandt, Jr. and S.G. Wolf. 1966. "Plasma Fibrinogen Patterns in Patients with Coronary Atherosclerosis". *Circulation.* 34:1098.
21. Levitt, S.H., C.R. Bogardus, Jr. and E.N. Brandt, Jr. 1966. "Complications and Late Changes Following Radiation Therapy for Carcinoma of the Eyelid and Canthi". *Radiology.* 87:340.
22. Brandt, E.N., Jr. 1967. "What is a Biomedical Computer Center?" *Clin. Pharmacol. Ther.* 8:158.
23. Lynn, T.N., R.C. Duncan, J.P. Naughton, E.N. Brandt, Jr., J. Wulff and S.G. Wolf. 1967. "Prevalence of Prior Myocardial Infarction, Hypertension, Diabetes and Obesity in Three Neighboring Communities in Pennsylvania". *Am. J. Med. Sci.* 254:385.
24. Rogers, C.C., S.H. Levitt, W.C. Crosby and E.N. Brandt, Jr. 1967. "Effect of Hypertension and Arteriosclerosis on Response to Radiation Therapy of Carcinoma of the Cervix". *Radiology.* 89:733.
25. Daniel, W.W., E.N. Brandt, Jr. and J.P. Costiloe. 1968. "The Use of Demographic Characteristics in Predicting Length of Stay in a State Mental Hospital". *Am. J. Pub. Health.* 58:938.
26. Harless, W.G., N.C. Lucas, J.A. Cutter, R.C. Duncan, J.M. White and E.N. Brandt, Jr. 1969. "Computer-Assisted Instruction in Continuing Medical Education". *J. Med. Educ.* 44:667.
27. Reeder, D.D., E.N. Brandt, Jr., L.C. Watson, U. Hjelmquist and J.C. Thompson. 1972. "Pre- and Posthepatic Measurements of the Mass of Endogenous Gastrin". *Surgery.* 72:34.
28. Reeder, D.D., B.M. Jackson, E.N. Brandt, Jr. and J.C. Thompson. 1972. "Rate and Pattern of Disappearance of Exogenous Gastrin in Dogs". *Am. J. Physiol.* 222:1571.

## **PUBLICATIONS - Journal Articles (cont'd)**

29. Hjelmquist, U.B.E., D.D. Reeder, E.N. Brandt, Jr. and J.C. Thompson. 1972. "Effect of the Kidney on Endogenous Gastrin". *Surg. Forum.* 23:318.
30. Thompson, J.C., D.D. Reeder, H.H. Bunchman, H.D. Becker and E.N. Brandt, Jr. 1972. "Effect of Secretin on Circulating Gastrin". *Ann Surg.* 176:384.
31. Clendinning, B.G., D.D. Reeder, E.N. Brandt, Jr. and J.C. Thompson. 1973. "Effect of Nephrectomy on the Rate and Pattern of the Disappearance of Exogenous Gastrin in Dogs". *GUT.* 14:462.
32. Booth, R.A.D., D.D. Reeder, U.B. Hjelmquist, E.N. Brandt, Jr. and J.C. Thompson. 1973. "Renal Inactivation of Endogenous Gastrin in Dogs". *Arch. surg.* 107:851.
33. Brandt, E.N., Jr. 1974. "The Role of the Computer in Continuing Medical Education". *Texas Med.* 70:43.
34. Brandt, E.N., Jr. 1974. "A Proposal for an Individual Continuing Education Program". *Cont. Ed. Fam. Phys.* 2(May):56.
35. Brandt, E.N., Jr. 1974. "An Experiment in Continuing Education for the Annual Meeting of a Professional Society". *J. Med. Ed.* 49:1189.
36. Feinstein, A.R. and E.N. Brandt, Jr. 1974. "New Concepts in Diagnostic Decision-Making". *Cont. Ed. Fam. Phys.* 2(Nov):45.
37. Brandt, E.N., Jr. 1974. "Assessment of Diagnostic Procedures". *Cont. Ed. Fam. Phys.* 2(Nov):57.
38. Brandt, E.N., Jr. 1975. "Preferences of Family Physicians for Subject Matter in Continuing Education Programs". *J. Med. Educ.* 50:395.
39. Brandt, E.N., Jr., C. King, M.A. Cohen, J.M. Worthington and A.D. Dotson. 1975. "SAMA-UTMB National Student Research Forum". *Texas Med.* 71(4):95.
40. Bruhn, J.G. and E.N. Brandt, Jr. 1975. "A Profile of Licensed Medical Graduates in Texas". *Texas Med.* 71(11):91.
41. Brandt, E.N., Jr., E.R. Franks and W.F. Powell. 1975. "Continuing Medical Education: The Annual Meeting of the Texas Academy of Family Physicians". *Texas Med.* 71(11):100.
42. Brandt, E.N., Jr. 1976. "Principles of Epidemiology". *Cont. Ed. Fam. Phys.* 4(May):66.
43. Brandt, E.N., Jr. 1976. "Principles of Education". *Cont. Ed. Fam. Phys.* 5(Sept):85.
44. Brandt, E.N., Jr. 1977. "Physician Supply in Texas--An Analysis". *Texas Med.* 73(July):68.

## **PUBLICATIONS - Journal Articles (cont'd)**

45. Brandt, E.N., Jr. and M.A. Thompson. 1978. "Continuing Education and the Written Word". *Cont. Ed. Fam. Phys.* 9(Oct):88.
46. Schottstaedt, W.W., J.G. Bruhn and E.N. Brandt, Jr. 1978. "Improving the Delivery of Health Services in South Texas". *Texas Med.* 74(Oct):52.
47. Brandt, E.N., Jr., F. Holmstrom and W.B. Padgett. 1979. "Admissions to UT Medical Schools, An Analysis: Characteristics of Accepted Applicants". *Texas Med.* 75(January):87.
48. Brandt, E.N., Jr. 1979. "Numbers and Medicine". *Cont. Ed. Fam. Phys.* 10(January):98.
49. Brandt, E.N., Jr., F. Holmstrom and E.L. Fitzsimmons. 1979. "A Study of UTMB Graduates: 1967-76". *Texas Med.* 75(June):54.
50. Stefamu, C., M.L. Pate, M.R. Zetzman, W.W. Goldman, Jr. and E.N. Brandt, Jr. 1980. "Impact of a Family Practice Residency Program on Physician Location in Small Communities". *South Med. J.* 73:1372.
51. Brandt, E.N., Jr. 1981. "The Availability of Residency Positions in Texas". *Texas Med.* 77(2):63.
52. Brandt, E.N., Jr. 1981. "Continuing Medical Education: The New Look". *Texas Med.* 77(June):6.
53. Brandt, E.N., Jr. 1981. "Banquet Address, Association for Surgical Education". *J. Okla. State Med. Assoc.* 74:399.
54. Brandt, E.N., Jr. 1981. "Washington Report: The New Approach to Health Programs". *J. American Dental Assoc.* 108:663.
55. Brandt, E.N., Jr. 1981. "Block Grants and The Resurgence of Federalism". *Public Health Reports.* 96:495.
56. Brandt, E.N., Jr. 1981. "Redefining the Federal/State Partnership:." *Forum.* (June):2.
57. Brandt, E.N., Jr. 1981. "Medical Care in the 80's-A New Role for Government and Health". *J. Tenn. Med. Assoc.* 74:645.
58. Brandt, E.N., Jr. 1982. "Cutting the Strings". *Emergency.* 14:20.
59. Brandt, E.N., Jr. 1982. "Strength in Diversity: Multisector Support for America's Biomedical Research Programs". *Clinical Research.* 30:123.
60. Brandt, E.N., Jr. 1982. "Medical Professionals and the Government-New Roles for a New Age". *Pathologist.* 39:359.

## **PUBLICATIONS - Journal Articles (cont'd)**

61. Brandt, E.N., Jr. 1982. "Health Planning and the Reagan Administration". *Conn. Med.* 46:94.
62. Brandt, E.N., Jr. 1982. "Prevention Policy and Practice in the 1980s". *American Psychologist.* 37:1038.
63. Brandt, E.N., Jr. 1982. "A Great Potential...An Awesome Burden". *Ala. J. Med. Sci.* 19:206.
64. Brandt, E.N., Jr. 1982. "Prevention as Policy". *Public Health Reports.* 97:399.
65. Brandt, E.N., Jr. 1983. "PHS Perspectives on Misconduct in Science". *Public Health Reports.* 98:136.
66. Brandt, E.N., Jr. 1984. "Technology Issues for the New Physician". *Bull. NY Acad. Med.* 60:240.
67. Brandt, E.N., Jr. 1984 "Infant Mortality-A Progress Report". *Public Health Reports.* 99:284.
68. Brandt, E.N., Jr. 1984. "The Relationship Between the Federal Government and State Licensing Boards". *Fed. Bull.* Nov:323:
69. Brandt, E.N., Jr. and J.M. McGinnis. 1984. "Nutrition Monitoring and Research in the Department of Health and Human Services". *Public Health Reports.* 99:544.
70. Brandt, E.N., Jr. 1984. "Compassionate Pain Relief: Is Heroin the Answer". *N. Engl. J. Med.* 311:530.
71. Brandt, E.N., Jr. 1985. "The Evolving Concept of Health". *The New York Medical Quarterly.* 5:18.
72. Brandt, E.N., Jr. 1985. "Banquet Address (Some Thoughts About Clinical Trials)". *Contr. Clin. Trials.* 6:1.
73. Brandt, E.N., Jr. 1985. "Convocation Address-Science and Society". *J. Am. Coll. Card.* 5:1503.
74. Brandt, E.N., Jr. 1985. "The Future of Graduate Medical Education". *J. Okla. St. Med. Assoc.* 78:340.
75. Brandt, E.N., Jr. 1985. "Health Policy Implications of AIDS:.". *Ann. Int. Med.* 103:771.
76. Brandt, E.N., Jr. 1985. "Smoking: The Number One Health Problem". *Maryland Med. J.* 34:897.

## **PUBLICATIONS - Journal Articles (cont'd)**

77. Brandt, E.N., Jr. 1986. "The Establishment of Health Care Policy in the U.S.". *J. Okla. St. Med. Assoc.* 79:241.
78. Brandt, E.N., Jr., W.N. Mayer, J.D. Mason, D.E. Brown, Jr., and L.E. Mahoney. 1985. "Designing a National Disaster Medical System". *Public Health Reports.* 100:455.
79. Brandt, E.N., Jr. 1985. "A Public Health Service Perspective". *Am. J. Clin. Nut.* 42:892.
80. Brandt, E.N., Jr. 1986. "The Physician's Role in Alternative Health Care System". *So. Med. J.* 79:466.
81. Brandt, E.N., Jr. 1986. "Some Thoughts About Government Service". *Ga. Acad. Fam. Phys. J.* April:4.
82. Brandt, E.N., Jr. 1986. "Peer Review: The Attacks From Without". *Clin. Res.* 34:473.
83. Brandt, E.N., Jr. 1986. "Biomedical Science Policy in the United States". *Clin. Res.* 34:10.
84. Brandt, E.N., Jr. 1986. "AIDS: A Modern Epidemic". *J. Nat. Assoc. Retail Druggists.* 108:7.
85. Brandt, E.N., Jr. 1987. "The Governor's Task Force on AIDS". *Maryland Med. J.* 36:47.
86. Brandt, E.N., Jr. 1987. "Indigent Health Care: A Continuing Dilemma". *Texas Med.* 83:27-31.
87. Brandt, E.N., Jr. 1987. "Research Administration in a Time of Change". *J. Soc. Res. Admin.* 19:5.
88. Brandt, E.N., Jr. 1988. "Hard Choices in Public Health". *Public Health Reports* 103:339.
89. Brandt, E.N., Jr. 1989. "Policy Implications of Modeling of the AIDS Epidemic". *Statistics In Medicine.* 8:137.
90. Brandt, E.N., Jr. 1989. "Health Care Workers and AIDS". *Maryland Law Review.* 48:1
91. Brandt, E.N., Jr. 1989. "Medical School Survival Versus Social Responsibility: Finances as a Driving Force". *Pharos.* 52:7.
92. Brandt, E.N., Jr. 1990. "The Evolving Role of the Health Sciences Library in Continuing Education". *Bull. Med. Libr. Assoc.* 78:157.
93. McGinnis, J.M., Richmond, J.B., Brandt, E.N., Jr., et al. 1992. "Health Progress in the United States: Results of the 1990 Objectives for the Nation". *J.A.M.A.* 268:2545.

## B. Editorials

1. Brandt, E.N., Jr. 1973. "Leadership in Medicine". GP Press. 24:8.
2. Brandt, E.N., Jr. 1973. "What Can Be Done: A Proposal". (Essay in symposium on religion and medicine). University Medical, The University of Texas Medical Branch at Galveston.
3. Brandt, E.N., Jr. 1974. "Leadership in Continuing Education". GP Press. 25(2):5.
4. Brandt, E.N., Jr. 1974. "Enthusiasm: A Characteristic of Leadership". GP Press. 25(3):5.
5. Brandt, E.N., Jr. 1974. "Commentary: The Relationship of Medical Education to Patient Mix". South. Med. J. 67(4):387.
6. Brandt, E.N., Jr. 1974. "Teaching Medical Students to be Subjective". GP Press. 25(4):12.
7. Brandt, E.N., Jr. 1974. "The Frustration of Leadership". GP Press. 25(6):7.
8. Brandt, E.N., Jr. 1975. "Academy for Continuing Medical Education". Texas Family Phys. 26(6):5.
9. Brandt, E.N., Jr. 1977. "Expanded Roles for Medical Schools". Texas Med. 73(5):153.
10. Brandt, E.N., Jr. 1977. "The Ethics of Leadership". Texas Family Phys. 28(5):9.
11. Brandt, E.N., Jr. 1977. "The Concept of Disease". Cont. Ed. Fam. Phys. 7(5):19.
12. Brandt, E.N., Jr. 1978. "What Can We Do?" Texas Med. 74:142.
13. Brandt, E.N., Jr. 1978. "Excellence: Can We Tolerate Less?" Cont. Ed. Fam. Phys. 8(6):18.
14. Brandt, E.N., Jr. 1979. "Complex Issues Face Medicine Today". Texas Med. 75(May):110.
15. Brandt, E.N., Jr. 1980. "Some Thoughts About Research". Texas Family Phys. 30(1):7.
16. Brandt, E.N., Jr. 1980. "Medical Education: The Past Eighty Years". Texas Med. 76:4.
17. Brandt, E.N., Jr. 1980. "Leadership: Rights and Responsibilities". Texas Family Phys. 31:7.
18. Brandt, E.N., Jr. 1981. "Necessary Steps". Public Health Reports. 96(4):inside cover.
19. Brandt, E.N., Jr. 1981. "Necessary Steps". Public Health Reports. 97(5):inside cover.



## **PUBLICATIONS - Editorials (cont'd)**

20. Brandt, E.N., Jr. 1982. "Physicians and Sexually Transmitted Diseases: A Call to Action". JAMA 248:2082.
21. Brandt, E.N., Jr. 1982. "Preventing Misconduct in Science". Clinical Research. 30:433.
22. Brandt, E.N., Jr. 1982. "The Human Factor in Injury Prevention". Texas Med. 79:6.
23. Brandt, E.N., Jr. 1983. "The Public Health Service's Number One Priority". Public Health Reports. 98:306.
24. Brandt, E.N., Jr. 1983. "Dialog on the Issues of Prevention Research: A Response to Dr. Krause". Public Health Reports. 98:529.
25. Brandt, E.N., Jr. 1984. "The Concentric Effects of the Acquired Immune Deficiency Syndrome". Public Health Reports. 98:529.
26. Brandt, E.N., Jr. 1984. "Technology Assessment, A Private-Public Partnership". Public Health Reports. 99:329.
27. Brandt, E.N., Jr. 1984. "AIDS Research: Charting New Directions". Public Health Reports. 99:433.
28. Brandt, E.N., Jr. 1984. "The CDC Study of Vietnam Veteran's Risk of Fathering Infants with Birth Defects". Public Health Reports. 99:529.
29. Brandt, E.N., Jr. and J.M. McGinnes. 1985. "National Children and Youth Fitness Study: Its Contribution to our National Objectives". Public Health Reports. 100:1.
30. Brandt, E.N., Jr. 1985. "Why the Carter Center?" JAMA 254:1360.
31. Brandt, E.N., Jr. 1986. "Some Thoughts About Excellence". Scalpel. 55:39.
32. Brandt, E.N., Jr. 1986. "Federal Policy for Biomedical and Behavioral Research". J. Med. Educ. 61:990.
33. Brandt, E.N., Jr. 1987. "Commentary: Cancer Control Objectives". Oncology. 1:41.
34. Brandt, E.N., Jr. and P.R. Thomas. "Serving Up Nutrition Instead of Guilt", 1992. Rhode Island Medicine 75:493.

### **C. Book Chapters and Monographs**

1. Brandt, E.N., Jr., L.C. Stout, J.W. Hampton, T.N. Lynn and S.G. Wolf. 1966. "Coronary Artery Disease in Roseto, Pennsylvania and Among Italians and Non-Italians in Nearby Communities". Chapter 27 in W. Raab, ed., Prevention of Ischemic Heart Disease. Charles C. Thomas, Springfield, Illinois.

## **PUBLICATIONS - Book Chapters & Monographs (cont'd)**

2. Brandt, E.N., Jr. 1966. "Electronic Computers in Medical Education of the Future". Chapter 13 in J.M. White, ed., Medical Education and Anesthesia. F.A. Davis Co., Philadelphia.
3. Harless, W.G., E.N. Brandt, Jr., T.N. Lynn, J.M. White and N.C. Lucas. 1970. "Preclinical Education: CAI at the University of Oklahoma Medical Center". Chapter 3 in L.M. Stolurow, et al., ed., Computer Assisted Instruction in the Health Professions. Entelik, Inc., Newburyport, Massachusetts.
4. Thompson, J.C., H.D. Becker, J.C.W. Evans, U.B.E. Hjelmquist, E.N. Brandt, Jr. and D.D. Reeder. 1974. "Studies on the Catabolism of Gastrin". Chapter in W.Y. Chey and F.P. Brooks, eds., Endocrinology of the Gut. Charles B. Slack, Inc. Thorfare, New Jersey.
5. Brandt, E.N., Jr. 1983. "Who Should Do What?" Chapter II in G.J. Brewer, ed., Orphan Drugs and Orphan Diseases. A.E. Liss, New York, New York.
6. Brandt, E.N., Jr. 1986. "Government Involvement and the Development of Public Policy in AIDS Research and Reporting". Chapter 3 in Michael D. Witt, ed., AIDS and Patient Management: Legal, Ethical and Social Issues. National Health Publ., Owings Mills, Maryland.
7. Brandt, E.N., Jr. 1987. "Smoking and Reproductive Health", Chapter 1 in Smoking and Reproductive Health, PSG Publishing Co., Littleton, Massachusetts.
8. Brandt, E.N., Jr. 1987. "AIDS: Social Scientific and Health Policy Perspectives". Chapter 1 in Current Topics in AIDS: Vol. 1. M. Gottlieb, et al., Ed. 1987, John Wiley and Sons, Ltd., London.
9. Brandt, E.N., Jr. 1988. "Risk Assessment and Public Policy". Chapter 26 in Epidemiology and Health Risk Assessment. L. Gordis, Ed., Oxford Univ. Press, New York.
10. Brandt, E.N., Jr. 1988. "Reflections on a National Effort to Control AIDS:." Chapter 28 in AIDS. Vol 2, V.T. DeVita, Jr., S. Hellman & S. Rosenberg, Eds. J.B. Lippincott Co., Philadelphia.
11. Brandt, E.N., Jr. "Federal and State Roles and Policies in Human Resources Development", Human Resources for Health and Defining the Future, Association of Academic Health Centers, 1992.

**D. Editor**

1. Brandt, E.N., Jr., ed. 1967. "Symposium on Computers in Biomedical Research". *Clin. Pharmacol. Ther. (Suppl.)* 8:151.
2. Brandt, E.N., Jr., ed. 1968. *Proceedings of Conference. The Use of Computers in Medical Education. The University of Oklahoma Medical Center, Oklahoma City, Oklahoma.*

**E. Contributor**

1. Brandt, E.N., Jr., W.G. Harless and T.N. Lynn. 1967. "Some Experiences with Computer-Aided Instruction in a Medical Center Environment". *Proceedings Eighth IBM Medical Symposium. IBM Corp., White Plains, New York.*
2. Harless, W.G., E.N. Brandt, Jr., and N.C. Lucas. 1968. "A Discussion of the Attributes of the Computer in Programmed Instruction". *Proceedings Rochester Conference on Programmed Instruction in Medical Education. Rochester, New York. 121.*
3. Brandt, E.N., Jr. 1970. "Medical Education--Today's Challenge". *Proceedings Tenth IBM Medical Symposium, IBM Corp., White Plains, New York. 155.*
4. Brandt, E.N., Jr. 1982. "Government's Role in Shaping Health Policy". *Proceedings of Anglo-American Conference, University of North Carolina. 5.*
5. Brandt, E.N., Jr. 1983. "Importance of U.S. Collaboration with the World Health Organization on International Public Health Issues". *Proceedings NIAAA-WHO Alcohol Research Seminar, Washington, D.C., 24.*
6. Brandt, E.N., Jr. 1984. "Foreword". *Clinical Laboratory Safety (Rose, Susan L.). J.B. Lippincott Co., Philadelphia.*
7. Brandt, E.N., Jr. 1984. "Dedication Address, R.A. Block International Cancer Information Center Information Center". *Cancer Treatment Reports. 68:5.*
8. Brandt, E.N., Jr. 1985. "Foreword". *AIDS: Etiology Diagnosis, Treatment and Promotion, edited by V.T. DeVita, S. Hellman and S.A. Rosenberg, J.B. Lippincott Co., Philadelphia.*
9. Brandt, E.N., Jr. 1985. "Health Promotion and Disease Prevention". *Proceedings Conference on Health Problems of the U.S.-Mexico Border: Gaps in Service and How to Fill Them, University of Texas Medical Branch, El Paso, Texas. 9.*
10. Brandt, E.N., Jr. (with Dr. Robert Graham). 1985. "The Numbers Game: Madness or Method". *Proc. 1985 Ann Meeting, Assoc. Acad. Health Centers: 71.*
11. Brandt, E.N., Jr. 1987. "Foreword". *Closing the Gap, The Burden of Unnecessary Illness, edited by R.W. Amler and H.B. Dull, Oxford University Press, New York.*

**PUBLICATIONS - Contributor (cont'd)**

12. Brandt, E.N., Jr. 1989. "Foreword". Guide to Clinical Preventive Services, Williams & Wilkins, 1989.

**F. Reviewer**

1. Brandt, E.N., Jr. 1966. Book Review. Computers and the Life Sciences (Sterling, Theodore D. and Seymour V. Pollack). JAMA 197:64.
2. Brandt, E.N., Jr. 1992. Book Review. The Medical School's Mission and the Population's Health (Kerr L. White and Julia E. Connelly). Academic Medicine 67:828.

As of 8/6/93

Appendix E.

Curriculum Vitae of Dr. Land

March 1993

## CURRICULUM VITA

KENNETH C. LAND

### CURRENT POSITIONS (Duke University)

John Franklin Crowell Professor                      and  
and Chairman  
Department of Sociology  
268I Sociology-Psychology Building  
Duke University  
Durham, North Carolina 27708-0088  
(919) 660-5615

Senior Research Fellow  
Center for Demographic Studies  
2117 Campus Drive  
Duke University  
Durham, North Carolina 27706  
(919) 684-6126

and

Senior Fellow  
Center for the Study of Aging  
and Human Development  
Box 3003  
Duke University Medical Center  
Durham, North Carolina 27710  
(919) 684-6118

### CURRENT POSITIONS (University of Texas)

Senior Research Fellow  
The IC<sup>2</sup> Institute  
2815 San Gabriel  
The University of Texas at Austin  
Austin, Texas 78705-3596  
(512) 478-4081

### DATE AND PLACE OF BIRTH

[REDACTED]

### PROFESSIONAL HONORS

Fellow, American Statistical Association, 1978-present (Elected August, 1978)

Fellow, American Association for the Advancement of Science, 1992-present (Elected February, 1992)

Member, Sociological Research Association, 1981-present (Elected July, 1981) [Membership in the Sociological Research Association is restricted to 150 pre-age 60 members plus approximately 100 members who are age 60 or over.]

Listed in American Men and Women of Science and Who's Who in America

## EDUCATION

- B.A., Sociology (major) and History (major), Texas Lutheran College, Seguin, Texas, May, 1964  
M.A., Sociology (major) and Mathematics (minor), The University of Texas at Austin, May, 1966  
Ph.D., Sociology (major) and Mathematics (minor), The University of Texas at Austin, August, 1969  
Postdoctoral Study, Mathematical Statistics, Columbia University, New York, New York, 1969-1970

## SELECTED SCHOLARLY HONORS

- NIMH Predoctoral Fellow, The University of Texas at Austin, 1965-1966  
NDEA Title IV Predoctoral Fellow, The University of Texas at Austin, 1966-1969  
Social Science Research Council Postdoctoral Fellow, Columbia University, New York, New York, 1969-1970  
Qualified for and became a member of MENSA, April, 1987 [MENSA is an international society in which the sole requirement for qualification for membership is a score at or above the 98th percentile on a standard IQ test.]

## PROFESSIONAL EXPERIENCE

- Teaching Assistant, Department of Sociology, The University of Texas at Austin, 1964-1965  
Research Associate, Russell Sage Foundation, New York, New York, 1969-1970  
Mathematical Sociologist, Russell Sage Foundation, New York, New York, 1970-1973  
Lecturer, Department of Sociology, University of Wisconsin at Madison, Summer Session, 1971  
Lecturer, Department of Sociology, Columbia University, New York, New York, 1970-1973  
Associate Professor, Department of Sociology, University of Illinois at Urbana-Champaign, 1973-1976  
Director, Social Science Quantitative Laboratory, University of Illinois at Urbana-Champaign, 1974-1981  
Professor, Department of Sociology, University of Illinois at Urbana-Champaign, 1976-1981  
Professor, Graduate College Statistics Program, University of Illinois at Urbana-Champaign, 1980-1981  
Visiting Professor, Department of Sociology, Institute for Advanced Studies, Vienna, Austria, June, 1982  
Professor, Department of Sociology, The University of Texas at Austin, 1981-1985  
Associate Director, Center for Statistical Sciences, The University of Texas at Austin, 1983-1985

Director, Social Science Computing Laboratory, The University of Texas at Austin, 1983-1985  
Bonita Granville Wrather Centennial Fellow, The IC<sup>2</sup> Institute, The University of Texas at Austin, 1983-1985  
Research Associate, Population Research Center, The University of Texas at Austin, 1981-1987  
Senior Research Fellow, The IC<sup>2</sup> Institute, The University of Texas at Austin, 1986-present  
Professor and Chairman, Department of Sociology, Duke University, Durham, North Carolina, 1986-present  
John Franklin Crowell Professor of Sociology, Duke University, Durham, North Carolina, 1990-present  
Senior Research Fellow, Center for Demographic Studies, Duke University, Durham, North Carolina, 1986-present  
Senior Fellow, Center for the Study of Aging and Human Development, Duke University, Durham, North Carolina, 1987-present

## RESEARCH INTERESTS

Mathematical Sociology/Demography (population mathematics, stochastic models of social processes, models of macro social change); Social Statistics (linear models, path analysis, structural equation systems, time series analysis, sample selection bias methods, methods of evaluation research, techniques of social impact assessment); Demography (demographic accounting, applications of multistate life tables to schooling, labor force participation, and voting, political demography, trends in nuptiality, fertility, mortality, morbidity); Criminology (criminal opportunity theory, explanations of crime rate trends and distributions, micro-models of criminal careers); Organizations and Markets (environmental variability and technical efficiency, organizational effectiveness, organizational ecology, consumer satisfaction); Social Trends and Social Forecasts (social indicators, forecasting models, limits to forecasting accuracy)

## PROFESSIONAL AFFILIATIONS

American Sociological Association  
Population Association of America  
American Society for Criminology

American Statistical Association  
Econometric Society



International Institute of Forecasters  
World Future Society

American Public Health Association  
Society for the Study of Social Biology  
American Association for the Advancement of Science

Southern Sociological Society  
Southern Demographic Association  
North Carolina Sociological Association  
Triangle Area Population Society

## PROFESSIONAL ACTIVITIES

### Offices Held

- (1) Elected Member, Council of the Methodology Section, American Sociological Association, 1973-1976
- (2) Elected Chairman, Methodology Section, American Sociological Association, 1976-1977
- (3) Elected Publications Officer, Social Statistics Section, American Statistical Association, 1987-1989
- (4) Editor, Newsletter of the Crime, Law and Deviance Section, American Sociological Association, 1989-1992
- (5) Elected Vice-President, Triangle Area Population Society, 1991-1993
- (6) Elected Member, Council of the Methodology Section, American Sociological Association, 1993-1995
- (7) Elected President, Triangle Area Populatin Society, 1993-1995

### Committee Service

- (1) Chairman, Methodology Section Nominating Committee, American Sociological Association, 1973-1975
- (2) Member, Samuel Stouffer Award in Methodology Committee, American Sociological Association, 1973-1975

- (3) **Sociology Member, Mathematical Social Science Board, 1973-1977. The Board was funded by a grant from the National Science Foundation to organize research conferences, workshops and seminars on applications of mathematics in each of the social sciences. It was administered by the Center for Advanced Study in the Behavioral Sciences, Palo Alto, California through 1977. In January, 1978, it was reconstituted as a Research Planning Committee (the Committee on Mathematics and Social Sciences) of the Social Science Research Council, New York, New York.**
- (4) **Member, Social Science Research Council Committee on Mathematics and the Social Sciences, 1978-1979**
- (5) **Member, Social Science Research Council Advisory and Planning Committee on Social Indicators, 1976-1982**
- (6) **Member, Subcommittee on Public Use Samples, Committee on Population Statistics, Population Association of America, 1978-1980**
- (7) **Sociology Member, Board of Judges, Best Interdisciplinary Article-Length Manuscript on Consumer Behavior based on a Doctoral Dissertation submitted to the Journal of Consumer Research, Association for Consumer Research, 1980-1981**
- (8) **Chairman, Social Science Research Council Committee on Social Indicators, 1982-1985**
- (9) **Member, Advisory Panel, Measurement Methods and Data Improvement Program, Division of Social and Economic Science, National Science Foundation, 1987-1990**
- (10) **Member, 1991 Annual Meeting Program Committee, Population Association of America, 1990-1991**
- (11) **Member, 1991 Annual Meeting Program Committee, American Society of Criminology, 1990-1991**
- (12) **Member, Task Group on Graduate Education (TAGGE), American Sociological Association, 1990-1991**
- (13) **Chairman, Publications Committee, Crime, Law and Deviance Section, American Sociological Association, 1989-92**
- (14) **Member, Publications Committee, Crime, Law and Deviance Section, American Sociological Association, 1992-present**

- (15) Member, 1994 Annual Meeting Program Committee, Population Association of America, 1993-1994
- (16) Member, Committee on the Status of the Profession, Southern Sociological Society, 1993-present

**Sessions Organized (at Meetings of Professional Associations)**

- (1) "Social Forecasting and Social Policy," American Sociological Association Annual Meeting, Denver, Colorado, August 20-September 2, 1971
- (2) "Social Indicator Models," American Sociological Association Annual Meeting, San Francisco, California, August 25-29, 1975
- (3) "Methodology Section Day Program," American Sociological Association Annual Meeting, Chicago, Illinois, September 5-9, 1977
- (4) "Multidimensional Mathematical Demography," Population Association of America Annual Meeting, Washington, D.C., March 26-28, 1981
- (5) "Demographic Forecasting Models and Methods," Population Association of American Annual Meeting, Boston, Massachusetts, March 28-30, 1985
- (6) "Social Models and Forecasts," Southern Sociological Society Annual Meeting, Atlanta, Georgia, April 9-12, 1987
- (7) "The Social Causes and Consequences of AIDS," Southern Sociological Society Annual Meeting, Nashville, Tennessee, March 17-20, 1988
- (8) "Applications of Survival Models to Demographic Data," American Statistical Association Annual Meeting, New Orleans, Louisiana, August 22-26, 1988
- (9) "Structure, Crime, and Control," American Society of Criminology Annual Meeting, Reno, Nevada, November 8-12, 1989
- (10) "What Have We Learned from Empirical Applications of Sample Selection-Bias Models?" American Statistical Association Annual Meeting, Atlanta, Georgia, August 18-22, 1991
- (11) "Routine Activities, Socioeconomic Status, and Crime," American Society of Criminology Annual Meeting, Phoenix, Arizona, October 27-30, 1993
- (12) "Advances in Micro-Models of Criminal Careers," American Society of Criminology Annual Meeting, Phoenix, Arizona, October 27-30, 1993

**EDITORIAL ACTIVITIES**

- Guest Editor (with Dennis A. Ahlburg), Special Issue on "Population Forecasts," International Journal of Forecasting, Volume 8, Number 3, December, 1992
- Guest Editor (with Craig J. Calhoun), Symposium on "Smelser's 'Handbook': An Assessment," Contemporary Sociology: A International Journal of Reviews, Volume 18, Number 4, July, 1989, pp. 475-513
- Guest Editor (with Stephen H. Schneider), Special Issue on "Forecasting in the Social and Natural Sciences," Climatic Change: An International Journal Devoted to the Description, Causes and Implications of Climatic Change, Volume 11, Numbers 1/2, August/October, 1987
- Advisory Editor, Social Science Quarterly, 1969-present
- Associate Editor, Social Science Research, 1971-present
- Editorial Board, Social Indicators Research, 1978-present
- Editorial Board, Journal of Mathematical Sociology, 1978-present
- Editorial Consultant, Series on Quantitative Applications in the Social Sciences, Sage University Papers, Sage Publications, Inc., 1981-present
- Series Editor, The Plenum Series on Demographic Methods and Population Analysis, Plenum Publishing Corporation, 1986-present
- Associate Editor, Criminology, 1988-present
- Associate Editorial Consultant, Journal of Criminal Law and Criminology, 1991-present
- Editorial Board, Journal of Quantitative Criminology, 1989-present
- Associate Editor, Journal of the American Statistical Association-Applications, 1989-present
- Consulting Editor, The Journal of Applied Behavioral Science, 1991-present
- Associate Editor, Contemporary Sociology: A Journal of Reviews, 1986-1991
- Editorial Review Board, Journal of Marketing Research, 1986-1991
- Associate Editor, Mathematical Population Studies, 1986-1990
- Editorial Advisory Board, Demography, 1984
- Editorial Consultant, Sociological Methodology, 1970-1973, 1977-1982
- Advisory Editor, Sociological Methodology, 1974-1976
- Associate Editor, Sociological Methods and Research, 1971-1975
- Editorial Board, Public Opinion Quarterly, 1973-1982
- Editorial Consultant, Sociometry, 1973-1976
- Consulting Editor, American Journal of Sociology, 1976-1978

**OTHER (OCCASIONAL) REFEREE SERVICES****Research Funding Agencies**

- National Science Foundation, Division of Social and Economic Science, Sociology Program
- National Science Foundation, Division of Social and Economic Science, Measurement Methods and Data Improvement Program
- National Institute of Mental Health

National Institute of Child Health and Human Development, National Institutes of Health  
National Institute on Aging, National Institutes of Health

**Journals**

American Sociological Review

American Journal of Sociology

Sociological Methods and Research

Demography

Social Forces

Social Problems

**SELECTED CONSULTING ACTIVITIES**

North American Rockwell, Inc., Los Angeles, California, 1970

Booz, Allen Public Administration Services, Inc., Washington, D.C., 1972

Children's Television Workshop, New York, New York, 1973

Economic Council of Canada, Ottawa, Canada, 1973

International Labor Organization, Geneva, Switzerland, 1973

Agency for International Development, Washington, D.C., 1974

UNESCO, Paris, France, 1974, 1978

Abt Associates, Cambridge, Massachusetts, 1974

Bureau of Social Science Research, Inc., Washington, D.C., 1974-1975, 1984

Illinois Bar Association, Springfield, Illinois, 1977

Statistical Research Division, U.S. Bureau of the Census, Washington, D.C., 1979

National Institute on Aging, National Institutes of Health, Bethesda, Maryland, 1980

Demographic Analysis Systems Associates, Inc., Austin, Texas, 1983-1984

Human Relations Area Files, Inc., New Haven, Connecticut, 1986-1988

Impact Assessment, Inc., La Jolla, California, 1987-1991

Klein and Shafer, P.C., Okemos, Michigan, 1989-1990

North Carolina Administrative Office of the Courts, Raleigh, North Carolina, 1988-1991

National Center for Educational Statistics, 1992

**FUNDED RESEARCH AND GRANT PARTICIPATION**

Research Assistant, Population Research Center, The University of Texas at Austin,  
1966-1969

Research Associate on Social Indicator Research Projects with Eleanor B. Sheldon, Russell  
Sage Foundation, New York, New York, 1969-1973

Russell Sage Foundation, "Problems in Sociometrics," 1973-1975. Principal Investigator. Total budget: \$36,915.

University of Illinois at Urbana-Champaign, Research Board, "Social Indicator Models," 1974-1975. Co-Principal Investigator with Marcus Felson (Co-Principal Investigator). Total budget: \$6,500.

National Science Foundation, Division of Social Sciences, Special Projects and Social Indicators Program, "Demographic Accounting and Social Indicator Models for the United States," 1975-1977. Principal Investigator with Marcus Felson (Co-Principal Investigator) and Robert Schoen (Faculty Associate). Total budget: \$149,900.

University of Illinois at Urbana-Champaign, Graduate College Program in Law and Society, "A Macro Social Indicator Model of Public Safety and Criminal Justice in the United States: 1947-74," 1975-1976. Co-Principal Investigator with Marcus Felson (Co-Principal Investigator). Total budget: \$3,600.

United States Army Research Institute for the Behavioral and Social Sciences, "Models and Indicators for Predicting Outcomes of Military Manpower Policies," 1976-1979. Co-Principal Investigator with Marcus Felson (Co-Principal Investigator). Total budget: \$68,862.

National Science Foundation, Division of Social Sciences, Sociology Program, "Employer Effects on Occupational Inequality," 1978-1980. Faculty Associate with Ross M. Stolzenberg (Principal Investigator). Total budget: \$132,795.

National Institute of Mental Health, Center for Studies of Crime and Delinquency, "Forecasting Models for Index Rates," 1978-1980. Co-Principal Investigator with Marcus Felson (Principal Investigator) and Lawrence E. Cohen (Co-Principal Investigator). Total budget: \$137,007.

National Science Foundation, Division of Social Sciences, Special Projects and Social Indicators Program, "Demographic Accounting and Macro Social Indicator Models for the United States," 1978-1981. Principal Investigator with Marcus Felson (Co-Principal Investigator), Lawrence E. Cohen (Faculty Associate), Robert Schoen (Faculty Associate), and Ross M. Stolzenberg (Faculty Associate). Total budget: \$149,794.

National Science Foundation, Division of Social Sciences, Sociology Program, "Cohort Marriage, Divorce, and Fertility in Western Nations," 1980-1981. Faculty Associate with Robert Schoen (Principal Investigator). Total budget: \$91,294.

National Institute on Aging, "Social Indicators for the Elderly U.S. Population, 1946-79," 1980. General Coordinator with Lawrence E. Cohen (Co-Principal Investigator), James R. Kluegel (Co-Principal Investigator), and Robert Schoen (Co-Principal Investigator). Total budget: \$20,504.

National Science Foundation, Division of Social and Economic Science, Sociology Program, "Conference on Multidimensional Mathematical Demography," 1980-1981. Principal Investigator. Total budget: \$28,726.

University of Illinois at Urbana-Champaign, Research Board, "Demographic Accounts for the United States, 1940-80," 1981. Principal Investigator. Total budget: \$2,748.

National Science Foundation, Division of Social and Economic Science, Measurement Methods and Data Resources Program, "Basic Demographic Accounts for the United States, 1940-80," 1981-1983. Principal Investigator. Total budget: \$79,277.

National Science Foundation, Division of Social and Economic Science, Measurement Methods and Data Resources Program, "Social-State Nested Demographic Accounts for the United States," 1983-1984. Principal Investigator. Total budget: \$51,220.

National Science Foundation, Division of Social and Economic Science, Sociology Program, "Explaining Crime in the U.S.: Testing the Ability of Competing Criminogenic Theories to Explain and Forecast Post-World War II Crime Rates," 1983-1984. Co-Principal Investigator with Lawrence E. Cohen (Principal Investigator). Total budget: \$54,744.

The University of Texas at Austin, The University Research Institute, "Social- State Nested Demographic Accounts for the U.S.," 1984. Principal Investigator. Total budget: \$2,202.

National Science Foundation, Division of Social and Economic Science, Sociology Program, "Testing the Ability of Competing Criminogenic Theories to Explain Crime Rate Trends and Distributions," 1984-1986. Co-Principal Investigator with Lawrence E. Cohen (Principal Investigator). Total budget: \$66,000.

National Science Foundation, Division of Social and Economic Science, Measurement Methods and Data Improvement Program, "Social-State Nested Demographic Accounts for the United States," 1984-1986. Principal Investigator. Total budget: \$103,822.

- National Science Foundation, Division of Social and Economic Science, Sociology Program, "An Organizational Perspective on Stratification in Higher Education: An Analysis of Change in Graduate Program Effectiveness," 1988. Principal Investigator. Doctoral Dissertation Research Grant for Diane D. Everett. Total budget: \$5,000.
- National Science Foundation, Division of Social and Economic Science, Law and Social Sciences and Sociology Programs, "Structural Covariates of Crime Rates: Studies of Invariance," 1988-1990. Principal Investigator. Total budget: \$75,000.
- National Science Foundation, Division of Social and Economic Science, Sociology Program, "The Historical Transformation of Cultural Institutions," 1989-1991. Co-Principal Investigator with Judith R. Blau (Principal Investigator, University of North Carolina at Chapel Hill). Total budget: \$70,000.
- U.S. Bureau of the Census, Joint Statistical Agreement, "Modeling Cross-Sectional and Longitudinal Age-Wealth Relationships in the SIPP," 1990-1993. Principal Investigator. Total budget: \$46,846.50.
- National Science Foundation, Division of Social and Economic Science, Sociology Program, "Collaborative Research on Organizational Processes in the Production of Culture," 1991-1993. Principal Investigator. Total budget: \$30,050.00.
- National Science Foundation, Division of Social and Economic Science, Law and Social Sciences and Sociology Programs, "Collaborative Research on Micro Models of Criminal Careers," 1992-1995. Principal Investigator. Total budget: \$58,602.00.

## PUBLICATIONS

### Books

- (1) 1975 Kenneth C. Land and Seymour Spilerman (eds.), Social Indicator Models. New York: Russell Sage Foundation.
- (2) 1981 F. Thomas Juster and Kenneth C. Land (eds.), Social Accounting Systems: Essays on the State of the Art. New York: Academic Press, Studies in Population Series.
- (3) 1982 Kenneth C. Land and Andrei Rogers (eds.), Multidimensional Mathematical Demography. New York: Academic Press, Studies in Population Series.
- (4) 1987 Kenneth C. Land and Stephen H. Schneider (eds.), Forecasting in the Social and Natural Sciences. Boston: D. Reidel Publishing Company.



**Articles and Essays in Refereed Journals**

- (5) 1968 Kenneth C. Land, "Principles of Path Analysis," Sociological Methodology, 1969: 1-37.
- (6) 1969 Kenneth C. Land, "Duration of Residence and Prospective Migration: Further Evidence," Demography, 6 (May): 133-140.
- (7) 1970 Kenneth C. Land, "Mathematical Formalization of Durkheim's Theory of Division of Labor," Sociological Methodology, 1970: 257-282.
- (8) 1970 Kenneth C. Land, "On the Estimation of Path Coefficients for Unmeasured Variables from Correlations Among Observed Variables," Social Forces 48 (June): 506-511.
- (9) 1970 Kenneth C. Land, "Path Models of Functional Theories of Social Stratification as Representations of Cultural Beliefs on Stratification," The Sociological Quarterly, 11 (Fall): 474-484.
- (10) 1971 Kenneth C. Land, "Formal Theory," Sociological Methodology, 1971: 175-200.
- (11) 1971 Kenneth C. Land, "Some Exhaustible Poisson Process Models of Divorce by Marriage Cohort," Journal of Mathematical Sociology, 1 (July): 213-232.
- (12) 1971 Kenneth C. Land, "On the Definition of Social Indicators," The American Sociologist, 6 (November): 322-325.
- (13) 1971 Kenneth C. Land, "Significant Others, the Self-Reflexive Act and the Attitude Formation Process: A Reinterpretation," American Sociological Review, 36 (December): 1085-1098.
- (14) 1972 Eleanor B. Sheldon and Kenneth C. Land, "Social Reporting for the 1970's," Policy Sciences, 3 (Summer): 137-151.
- (15) 1975 Kenneth C. Land, "Theories, Models and Indicators of Social Change," International Social Science Journal, 27 (January): 7-37.
- (16) 1975 Kenneth C. Land, "The Role of Quality of Employment Indicators in General Social Reporting Systems," American Behavioral Scientist, 18 (January-February): 304-322.

- (17) 1976 Kenneth C. Land and Marcus Felson, "A General Framework for Building Dynamic Macro Social Indicator Models: Including an Analysis of Changes in Crime Rates and Police Expenditures," American Journal of Sociology, 82 (November): 565-604.
- (18) 1977 Kenneth C. Land and Fred C. Pampel, "Indicators and Models of Changes in the American Occupational System, 1947-73: Some Preliminary Analyses," Social Indicators Research, 4 (March): 1-23.
- (19) 1977 Kenneth C. Land and Marcus Felson, "A Dynamic Macro Social Indicator Model of Changes in Marriage, Family, and Population in the United States: 1947-74," Social Science Research, 6 (December): 328-362.
- (20) 1977 Fred C. Pampel, Kenneth C. Land, and Marcus Felson, "A Social Indicator Model of Changes in the Occupational Structure of the United States: 1947-74," American Sociological Review, 42 (December): 951-964.
- (21) 1978 Kenneth C. Land and Marcus Felson, "Sensitivity Analysis of Arbitrarily Identified Simultaneous-Equation Models," Sociological Methods and Research, 6 (February): 283-301.
- (22) 1978 Marcus Felson and Kenneth C. Land, "Social, Demographic, and Economic Interrelationships with Educational Trends in the United States, 1947-74," Research in Population Economics: An Annual Compilation of Research, 1: 93-125.
- (23) 1979 Kenneth C. Land, "Modeling Macro Social Change," Sociological Methodology, 1980: 219-278.
- (24) 1979 Robert Schoen and Kenneth C. Land, "A General Algorithm for Estimating a Markov-Generated Increment-Decrement Life Table with Applications to Marital Status Patterns," Journal of the American Statistical Association, 74 (December): 761-776.
- (25) 1980 Kenneth C. Land and Marilyn M. McMillen, "A Macrodynamic Analysis of Changes in Mortality Indexes in the United States, 1947-75: Some Preliminary Results," Social Indicators Research, 7 (January): 1-46.
- (26) 1980 Kenneth C. Land and Fred C. Pampel, "Aggregate Male and Female Labor Force Participation Functions: An Analysis of Structural Differences, 1947-77," Social Science Research, 9 (March): 37-54.

- (27) 1980 M. D. Evans, Marcus Felson, and Kenneth C. Land, "Developing Social Indicator Research on the Military in American Society," Social Indicators Research, 8 (March): 81-102.
- (28) 1980 Kenneth C. Land and Marilyn M. McMillen, "Demographic Data and Social Indicators," Sociology and Social Research, 64 (April): 348-377.
- (29) 1980 Lawrence E. Cohen, Marcus Felson, and Kenneth C. Land, "Property Crime Rates in the United States: A Macrodynamic Analysis, 1947-77, with Ex Ante Forecasts for the Mid-1980's," American Journal of Sociology, 85 (July): 90-118.
- (30) 1981 Kenneth C. Land and Marilyn M. McMillen, "Determinants of Morbidity and Disability Trends in the United States, 1958-77," Social Indicators Research, 9 (September): 313-346.
- (31) 1981 Lawrence E. Cohen, James R. Kluegel, and Kenneth C. Land, "Social Inequality and Predatory Criminal Victimization: An Exposition and Test of a Formal Theory," American Sociological Review, 46 (October): 505-524.
- (32) 1981 Kenneth C. Land, "Identification of Socio-Economic Indicators for Use in Integrated Social and Economic Planning," Socio-Economic Studies, 2: 505-524.
- (33) 1981 Kenneth C. Land, "On the Use of 'Hard' and 'Soft' Methodologies in Sociology," The Sociological Quarterly, 23: 452-458.
- (34) 1982 Kenneth C. Land, "Social Indicators: Past Developments and Prospects for the Future," Journal of the Institute for Advanced Studies, Vienna, 6 (4): 193-220.
- (35) 1983 Lawrence E. Cohen, James R. Kluegel, and Kenneth C. Land, "Insinuating Informality: A Reply to Breen and Rottman," American Sociological Review, 48 (February): 143-145.
- (36) 1983 Kenneth C. Land, "Social Indicators," Annual Review of Sociology, 9: 1-26.
- (37) 1983 Kenneth C. Land and David Cantor, "ARIMA Models of Seasonal Variation in U.S. Birth and Death Rates," Demography, 20 (November): 541-568.
- (38) 1984 Lawrence E. Cohen and Kenneth C. Land, "Discrepancies Between Crime Reports and Crime Surveys: Urban and Structural Determinants," Criminology, 22 (November): 499-530.

- (39) 1984 Kenneth C. Land, George C. Hough, Jr., and Marilyn M. McMillen, "New Midyear Age-Sex-Color-Specific Estimates of the U.S. Population for the 1940s and 1950s: Including a Revision of Coverage Estimates for the 1940 and 1950 Censuses," Demography, 21 (November): 623-645.
- (40) 1985 David Cantor and Kenneth C. Land, "Unemployment and Crime Rates in the Post-World War II United States: A Theoretical and Empirical Analysis," American Sociological Review, 50 (June): 317-332.
- (41) 1986 Kenneth C. Land and George C. Hough, Jr., "Improving the Accuracy of Intercensal Estimates and Postcensal Projections of the Civilian Noninstitutional Population: A Parameterization of Institutional Prevalence Rates," Journal of the American Statistical Association, 81 (March): 62-74.
- (42) 1986 Meei-shia Chen and Kenneth C. Land, "Testing the Health Belief Model: LISREL Analyses of Alternative Models of Causal Relationships Between Health Beliefs and Preventive Dental Behavior," Social Psychology Quarterly, 49 (March): 45-60.
- (43) 1986 Kenneth C. Land, George C. Hough, Jr., and Marilyn M. McMillen, "Voting Status Life Tables for the United States, 1968-1980," Demography, 23 (August): 381-402.
- (44) 1986 Kenneth C. Land, "Methods for National Population Forecasts: A Review," Journal of the American Statistical Association, 81 (December): 888-901.
- (45) 1987 Lawrence E. Cohen and Kenneth C. Land, "Age Structure and Crime: Symmetry vs. Asymmetry, and Projections of Crime Rates Through the 1990's," American Sociological Review, 52 (April): 170-183.
- (46) 1987 Kenneth C. Land and Stephen H. Schneider, "Forecasting in the Social and Natural Sciences: An Overview and Analysis of Isomorphisms," Climatic Change, 11 (August/October): 7-31.
- (47) 1989 Kenneth C. Land and George C. Hough, Jr., "New Methods for Tables of School Life, with Applications to U.S. Data from Recent School Years," Journal of the American Statistical Association, 84 (March): 63-75.
- (48) 1990 Kenneth C. Land, Patricia L. McCall, and Lawrence E. Cohen, "Structural Covariates of Homicide Rates: Are There Any Invariances Across Time and Social Space?" American Journal of Sociology, 95 (January): 922-963.

- (49) 1990 Meei-shia Chen and Kenneth C. Land, "Socioeconomic Status, Health Beliefs and Preventive Dental Behavior," Journal of Social Behavior and Personality, 5: 263-284.
- (50) 1990 Kenneth C. Land, Patricia L. McCall, and Jay R. Williams, "Something That Works in Juvenile Justice: An Evaluation of the North Carolina Court Counselors' Intensive Protective Supervision Randomized Experimental Project, 1987-89," Evaluation Review, 14 (December): 574-606.
- (51) 1991 Kenneth C. Land, Glenn Deane, and Judith R. Blau, "Religious Pluralism and Church Membership: A Spatial Diffusion Model," American Sociological Review, 56 (April): 237-249.
- (52) 1991 Daniel Linz, Edward Donnerstein, Kenneth C. Land, Patricia L. McCall, Joseph Scott, Bradley J. Shafer, Lee J. Klein, and Larry Lance, "Estimating Community Standards: The Use of Social Science Evidence in an Obscenity Prosecution," Public Opinion Quarterly, 55 (Spring): 80-112.
- (53) 1991 Kenneth C. Land, Patricia L. McCall, and Lawrence E. Cohen, "Characteristics of U.S. Cities with Extreme (High or Low) Crime Rates: Results of Discriminant Analyses of 1960, 1970, and 1980 Data," Social Indicators Research, 24 (May): 209-231.
- (54) 1991 David Cantor and Kenneth C. Land, "Exploring Possible Temporal Relationships of Unemployment and Crime: Comment on Hale and Sabbagh," Journal of Research in Crime and Delinquency, 28 (November): 418-425.
- (55) 1992 Kenneth C. Land, "Models of Criminal Careers: Some Suggestions for Moving Beyond the Current Debate," Criminology, 30 (February): 149-155.
- (56) 1992 Kenneth C. Land and Glenn Deane, "On the Large-Sample Estimation of Regression Models with Spatial or Network Effects Terms: A Two-Stage Least Squares Approach," Sociological Methodology, 22: 221-248.
- (57) 1992 Patricia L. McCall, Kenneth C. Land, and Lawrence E. Cohen, "Violent Crime Rates: Is There a General and Continuing Influence of the South?" Social Science Research, 21 (September): 286-310.
- (58) 1992 Kenneth C. Land, C. A. Knox Lovell, and Sten Thore, "Productive Efficiency Under Capitalism and State Socialism: The Chance-Constrained Programming Approach," Public Finance -- Special Issue on Public Finance in a Changing World, 47 (November):

- (59) 1992 Dennis A. Ahlburg and Kenneth C. Land, "Population Forecasting: Guest Editors' Introduction," International Journal of Forecasting, 8 (November): 289-299.
- (60) 1992 Judith R. Blau, Kenneth C. Land, and Kent Redding, "The Expansion of Religious Affiliation: An Explanation of the Growth of Church Participation in the United States, 1850-1930," Social Science Research, 21 (December): 329-352.
- (61) 1993 Kenneth C. Land and Patricia L. McCall, "Estimating the Effect of Nonignorable Nonresponse in Sample Surveys: An Application of Rubin's Bayesian Method to the Estimation of Community Standards for Obscenity," Sociological Methods and Research, 21 (February): 291-316.
- (62) 1993 Dilip C. Nath, Kaushalendra K. Singh, Kenneth C. Land, and Pijush K. Talukdar, "Breast-Feeding and Post-Partum Amenorrhea in a Traditional Society: A Hazards Model Analysis," Social Biology, 40: forthcoming.
- (63) 1993 Dilip C. Nath, Kaushalendra K. Singh, Kenneth C. Land, and Pijush K. Talukdar, "Age of Marriage and Length of the First Birth Interval in a Traditional Society: A Life Table and Hazards Model Analysis," Human Biology, forthcoming.
- (64) 1993 Kenneth C. Land, C.A. Knox Lovell, and Sten Thore, "Chance-Constrained Data Envelopment Analysis," Managerial and Decision Economics, forthcoming.
- (65) 1993 Judith R. Blau, Kent Redding, and Kenneth C. Land, "Ethnocultural Cleavages and Religious Traditions in the United States, 1860-1930," Sociological Forum, forthcoming.
- (66) 1993 Dilip C. Nath, Kenneth C. Land, and Kaushalendra K. Singh, "The Role of Breast-Feeding Beyond Post-Partum Amenorrhoea on the Return of Fertility in India: A Life Table and Hazards Model Analysis," Journal of Biosocial Science, forthcoming.
- (67) 1993 Daniel Linz, Edward Donnerstein, Bradley J. Shafer, Lee J. Klein, Kenneth C. Land, Patricia L. McCall, Joseph Scott, and Arthur Graesser, "Defining the Limits of Public Tolerance for Sexually Explicit and Sexually Violent Materials: A Field Experiment," submitted for journal review.

- (68) 1993 Jack M. Guralnik, Kenneth C. Land, Dan G. Blazer, and Gerda G. Fillenbaum, "The Impact of Educational Status on Life Expectancy and Active Life Expectancy in Older Blacks and Whites," submitted for journal review.
- (69) 1993 Kenneth C. Land and Jack M. Guralnik, "On the Estimation of Increment Decrement Life Tables with Multiple Covariates from Panel Data: The Case of Active Life Expectancy," submitted for journal review.
- (70) 1993 Kenneth C. Land, Walter R. Davis, and Judith R. Blau, "Organizing the Boys of Summer: Density Dependence, Population Dynamics, and Structured Mutualism in the Evolution of U.S. Minor League Baseball Teams, 1883-1990," submitted for journal review.
- (71) 1993 Kenneth C. Land, C. A. Knox Lovell, and Sten Thore, "Productive Efficiency Under Capitalism and State Socialism: An Empirical Inquiry Using Chance-Constrained Data Envelopment Analysis," submitted for journal review.
- (72) 1993 Daniel S. Nagin and Kenneth C. Land, "Age, Criminal Careers, and Population Heterogeneity: Specification and Estimation of a Nonparametric Mixed Poisson Model," submitted for journal review.
- (73) 1993 Patricia L. McCall and Kenneth C. Land, "Trends in White Male Adolescent, Young-Adult, and Elderly Suicide: Are There Common Underlying Structural Factors?" submitted for journal review.
- (74) 1993 Kenneth C. Land, Patricia L. McCall, and Karen F. Parker, "Logistic Versus Hazards Regression Analyses in Evaluation Research: An Exposition and Application to the North Carolina Court Counselors' Intensive Protective Supervision Experiment," submitted for journal review.
- (75) 1993 Kenneth C. Land and Stephen T. Russell, "Who's Wealthy? Who's Not? Stability and Change in Sociodemographic Covariate Structures of Positive, Zero, and Negative Net Worth Data in the Survey of Income and Program Participation.
- (76) 1993 Pamela Wilcox Rountree, Kenneth C. Land, and Terance D. Miethe, "Macro-Micro Integration in the Study of Victimization: A Hierarchical Linear Models Analysis Across Seattle Neighborhoods."

## Invited Chapters and Other Contributions to Books

- (77) 1973 Kenneth C. Land, "Identification, Parameter Estimation, and Hypothesis Testing in Recursive Sociological Models." Pp. 19-49 in A.S. Goldberger and O.D. Duncan (eds.), Structural Equation Models in the Social Sciences. New York: Seminar Press.
- (78) 1975 Kenneth C. Land, "Social Indicator Models: An Overview." Pp. 5-35 in K.C. Land and S. Spilerman (eds.), Social Indicator Models. New York: Russell Sage Foundation.
- (79) 1975 Kenneth C. Land and Seymour Spilerman, "Introduction." Pp. 1-3 in K.C. Land and S. Spilerman (eds.), Social Indicator Models. New York: Russell Sage Foundation.
- (80) 1975 Kenneth C. Land, "Comparative Statics in Sociology: Including a Mathematical Theory of Differentiation in Organizations." Pp. 475- 510 in H.M. Blalock, Jr. (U.S.A.), A. Aganbegian (U.S.S.R.), R.M. Borodkin (U.S.S.R.), R. Boudon (France), and V. Capecchi (Italy) [eds.], Quantitative Sociology: International Perspectives in Mathematical and Statistical Modelling. New York: Seminar Press.
- (81) 1980 Kenneth C. Land, "Forward." Pp. 13-14 in Richard McCleary and Richard A. Hay, Jr., Applied Time Series Analysis for the Social Sciences. Beverly Hills, CA: Sage.
- (82) 1980 Marcus Felson and Kenneth C. Land, "Linking Education to the Larger Society with Social Indicator Models." Pp. 65-92 in Charles E. Bidwell and Douglas M. Windham (eds.), The Analysis of Educational Productivity. Volume II: Issues in Macroanalysis. Cambridge, MA: Ballinger.
- (83) 1981 Kenneth C. Land and F. Thomas Juster, "Social Accounting Systems and Social Indicators: An Overview." Pp. 1-21 in F.T. Juster and K.C. Land (eds.), Social Accounting Systems: Essays on the State of the Art. New York: Academic Press.
- (84) 1981 Kenneth C. Land and Marilyn M. McMillen, "Demographic Accounts and the Study of Social Change, with Applications to the Post-World War II United States." Pp. 241-306 in F.T. Juster and K.C. Land (eds.), Social Accounting Systems: Essays on the State of the Art. New York: Academic Press.



- (85) 1982 Kenneth C. Land and Andrei Rogers, "Multidimensional Mathematical Demography: An Overview." Pp. 1-41 in K.C. Land and A. Rogers (eds.), Multidimensional Mathematical Demography. New York: Academic Press.
- (86) 1982 Kenneth C. Land and Robert Schoen, "Statistical Methods for Markov-Generated Increment-Decrement Life Tables with Polynomial Gross Flow Functions." Pp. 265-346 in K.C. Land and A. Rogers (eds.), Multidimensional Mathematical Demography. New York: Academic Press.
- (87) 1983 Ross M. Stolzenberg and Kenneth C. Land, "Causal Modeling and Survey Research." Pp. 613-675 in P.H. Rossi and J. Wright (eds.), Handbook of Survey Research. New York: Academic Press.
- (88) 1983 Kenneth C. Land, "Preface." Pp. v-vi in Martin H. David (ed.), Technical, Conceptual, and Administrative Lessons of the Income Survey Development Program (IDSP). New York: Social Science Research Council.
- (89) 1984 Kenneth C. Land, "Markovian Transition Rates Models of Macro Social Change." Pp. 215-243 in Andreas Diekmann and Peter Mitter (eds.), Stochastic Modelling of Social Processes. New York: Academic Press.
- (90) 1987 Lawrence E. Cohen and Kenneth C. Land, "Sociological Positivism and the Explanation of Criminality." Pp. 43-55 in Michael R. Gottfredson and Travis Hirschi (eds.), Positive Criminology. Beverly Hills, CA: Sage.
- (91) 1987 Kenneth C. Land and Stephen H. Schneider, "Forward." Pp. 1-3 in K.C. Land and S.H. Schneider (eds.), Forecasting in the Social and Natural Sciences. Boston: D. Reidel Publishing Company.
- (92) 1987 Kenneth C. Land and Stephen H. Schneider, "Forecasting in the Social and Natural Sciences: Some Isomorphisms." Pp 7-31 in K.C. Land and S.H. Schneider (eds.), Forecasting in the Social and Natural Sciences. Boston: D. Reidel Publishing Company.
- (93) 1992 Kenneth C. Land, "Social Indicators." Pp. 1844-1850 in Edgar F. Borgatta and Marie L. Borgatta (eds.), Encyclopedia of Sociology. New York: Macmillan Publishing Company.
- (94) 1992 Kenneth C. Land, Patricia L. McCall, and Jay R. Williams, "Intensive Supervision of Status Offenders: Evidence on Continuity of Treatment Effects for Juveniles and a 'Hawthorne Effect' for Counselors." Pp. 330-349 in Joan McCord and Richard E. Tremblay (eds.), Preventing Antisocial Behavior: Interventions from Birth through Adolescence. New York: Guilford Press.

- (95) 1993 Kenneth C. Land, David Cantor, and Stephen T. Russell, "Unemployment and Crime Rate Fluctuations in the Post-World War II United States: Statistical Time Series Properties and Alternative Models." Forthcoming in John L. Hagan and Ruth D. Peterson (eds.), Crime and Inequality. Stanford: Stanford University Press.

**Technical Reports, Articles in Proceedings and Nonrefereed Journals**

- (96) 1966 Kenneth C. Land, John H. Lane, Jr., and Richard C. Rockwell, The Social Backgrounds of Head Start Participants: Austin, Texas, Summer, 1965. Austin: Extension Teaching and Field Service Bureau, Division of Extension, The University of Texas, 27 pp.
- (97) 1971 Kenneth C. Land, "Some Problems of Statistical Inference in Dynamic Sociological Models." Pp. 21-25 in 1970 Proceedings of the Social Statistics Section, American Statistical Association. Washington, D.C.: American Statistical Association.
- (98) 1975 Kenneth C. Land, "Two Preliminary Models for the Analysis of Changes in a Social Indicator of Job Satisfaction." Pp. 1-7 in 1974 Proceedings of the Social Statistics Section, American Statistical Association. Washington, D.C.: American Statistical Association.
- (99) 1979 Martin L. Levin, Kenneth C. Land, Dudley L. Poston, Jr., and Haliman H. Winsborough, "Public Use Samples and Microdata: Problems and Recommendations." Pp. 9-15 in Current Issues in Population Statistics: Reports Prepared by the Subcommittees of the Committee on Population Statistics. Washington, D.C.: Population Association of America.
- (100) 1980 Marilyn M. McMillen and Kenneth C. Land, "Methodological Considerations in the Demographic Approach to Social Accounting." Pp. 200-205 in 1979 Proceedings of the Social Statistics Section, American Statistical Association. Washington, D.C.: American Statistical Association.
- (101) 1980 Kenneth C. Land, "Notes on Social Indicators and Public Policy: Future Perspectives." Pp. 1401-1418 in Proceedings of the International Conference on the Future of Public Administration, Volume IV: Planning and Forecasting in Public Organizations. Quebec: Ecole National d'Administration Publique.
- (102) 1985 Kenneth C. Land, "Methods for National Population Forecasts: A Critical Review." Pp. 251-270 in Proceedings of the First Annual Research Conference. Washington, D.C.: Bureau of the Census, U.S. Department of Commerce.

- (103) 1989 Kenneth C. Land, "Measurement Issues in Social Statistics." Pp. 201-213 in Proceedings of the American Statistical Association: Sesquicentennial Invited Papers Session. Alexandria, VA: American Statistical Association.
- (104) 1989 Kenneth C. Land, Patricia L. McCall, and Jay R. Williams, The North Carolina Court Counselor's Intensive Protective Supervision Project, 1987-89: Final Evaluation Report. Raleigh: Juvenile Services Division, Administrative Office of the Courts. 74 pp. plus appendices.
- (105) 1990 Kenneth C. Land, Patricia L. McCall, and Jay R. Williams, The North Carolina Court Counselor's Intensive Supervision Experiment, Phase II: Final Evaluation Report. Raleigh: Juvenile Services Division, Administrative Office of the Courts. 110 pp. plus appendices.
- (106) 1991 Kenneth C. Land and Patricia L. McCall, The North Carolina Court Counselor's Intensive Supervision Experiment, Phase III: Final Evaluation Report. Raleigh: Juvenile Services Division, Administrative Office of the Courts. 32 pp.
- (107) 1991 Kenneth C. Land, Comments in "On the Abolition of Sociology Departments: A Panel for Chairpersons," The Southern Sociologist, 23 (Fall): 9-13.
- (108) 1992 Kenneth C. Land, "Evaluation of the North Carolina Court Counselors' Intensive Protective Supervision Project." Pp. 68-72 in Second Annual Evaluating Drug Control Initiatives: Conference Proceedings. Washington, D.C.: Bureau of Justice Assistance, National Institute of Justice.

#### Articles Reprinted

- (109) 1970 Kenneth C. Land, "Duration of Residence and Prospective Migration: Further Evidence." The Bobbs-Merrill Reprint Series in Sociology, Prod. No. 68735.
- (110) 1971 Kenneth C. Land, "On the Definition of Social Indicators." Translated and reprinted as "Comment Définir les Indicateurs Sociaux," Revue Française de Sociologie, 12 (Octobre-Décembre): 569-578.
- (111) 1972 Kenneth C. Land, "Duration of Residence and Prospective Migration: Further Evidence." Translated and reprinted as "Duracion de la Residencia y Probabilidad de Migrar," in Jorge Balin, Harlye L. Browning, Elizabeth Jelin y Colaboradores, Estudios Sobre Migracion. Estructure Occupational y Movibilidad en Mexico. Coyoacan 20, D.F., Mexico: Ciudad Universitaria Press.

- (112) 1976 Kenneth C. Land, "The Role of Quality of Employment Indicators in General Social Reporting Systems." Reprinted as Chapter 1 of Albert D. Biderman and Thomas F. Drury (eds.), Measuring Work Quality for Social Reporting. New York: Wiley.
- (113) 1981 Kenneth C. Land and Marcus Felson, "Sensitivity Analysis of Arbitrarily Identified Simultaneous-Equation Models." Reprinted as Chapter 8 of Peter V. Marsden (ed.), Linear Models in Social Research. Beverly Hills, CA: Sage.
- (114) 1985 Kenneth C. Land and Marcus Felson, "Sensitivity Analysis of Arbitrarily Identified Simultaneous-Equation Models," Pp. 201-222 in Hubert M. Blalock, Jr., Causal Models in the Social Sciences. Second Edition. Chicago: Aldine-Atherton.

#### Book Reviews and Review Essays

- (115) 1968 Kenneth C. Land, review of "Migration and Metropolitan Growth: Two Analytical Models," by Ira S. Lowry, International Migration Review, 2 (Summer): 69-71.
- (116) 1972 Kenneth C. Land, review essay on "Model Building in Sociology," by Peter Abell and "Mathematics and the Study of Social Relations," by Patrick Doreian, Sociological Methods and Research, 1 (August): 137- 138.
- (117) 1972 Kenneth C. Land, review of "Causal Models in the Social Sciences," edited by Hubert M. Blalock, Jr., Sociological Methods and Research, 1 (August): 139-141.
- (118) 1975 Kenneth C. Land, review of "Inferences from Sociological Survey Data," by J.K. Lindsay, Journal of the American Statistical Association, 70 (March): 256-257.
- (119) 1976 Kenneth C. Land, review of "Measurement in the Social Sciences: Theories and Strategies," edited by Hubert M. Blalock, Jr., American Journal of Sociology, 81 (March): 1258-1262.
- (120) 1976 Kenneth C. Land, review of "The Use of Models in the Social Sciences," edited by Lyndhurst Collins, Contemporary Sociology: A Journal of Reviews, 6 (November): 778-780.
- (121) 1977 Kenneth C. Land, review of "Economic Means for Human Needs: Social Indicators of Well-Being and Discontent," edited by Burkhard Strumpel, Monthly Labor Review, 100 (Number 2): 91-92.

- (122) 1977 Kenneth C. Land, review of "The Quality of American Life," by Angus Campbell, Philip E. Converse, and Willard L. Rogers, American Scientist, 65 (May-June): 374.
- (123) 1977 Kenneth C. Land, review of "Modeling Social Processes," by Patrick Doreian and Normal P. Humon, Sociology and Social Research 62 (Number 1): 140-142.
- (124) 1978 Kenneth C. Land, review of "The Analysis of Survey Data, Volume 1: Exploring Data Structures, and Volume 2: Model Fitting," edited by Colm A. O'Muircheartaigh and Clive Payne, Contemporary Sociology: A Journal of Reviews, 7 (May): 329- 330.
- (125) 1978 Kenneth C. Land, symposium review of "Social Indicators of Well-Being: Americans' Perceptions of Life Quality," by Frank M. Andrews and Stephen B. Whitley, Contemporary Sociology: A Journal of Reviews, 9 (July): 389-391.
- (126) 1980 Kenneth C. Land, review of "Sociological Methodology, 1979," edited by Karl F. Schuessler, Contemporary Sociology: A Journal of Reviews, 9 (March): 277-278.
- (127) 1980 Kenneth C. Land, review of "Toward a Metric of Science: The Advent of Science Indicators," edited by Yehuda Elkana, Joshua Lederberg, Robert K. Merton, Arnold Thackray, and Harriet Zuckerman, Sociology and Social Research, 64 (Number 2): 282-283.
- (128) 1983 Kenneth C. Land, feature article, "Ex Ante and Ex Post Assessment of the Social Consequences of Public Projects and Policies," reviewing "Understanding Social Impacts: Assessing the Effects of Public Projects," by Kurt Finsterbausch, and "The Analysis of Policy Impact," edited by John G. Grumm and Stephen L. Wasby, Contemporary Sociology: A Journal of Reviews, 11 (September): 512-514.
- (129) 1983 Kenneth C. Land, review of "Indicator System for Political, Economic, and Social Analysis," edited by Charles Lewis Taylor, American Journal of Sociology, 88 (March ): 1078-1080.
- (130) 1983 Kenneth C. Land, review of "Conceptualization and Measurement in the Social Sciences," by Hubert M. Blalock, Jr., Sociology and Social Research, 67 (Number 2): 224-225.
- (131) 1984 Kenneth C. Land, review of "Sociological Methodology, 1983-84," edited by Samuel Leinhardt, Contemporary Sociology: A Journal of Reviews, 13 (July): 484-485.

- (132) 1985 Kenneth C. Land, review of "Guide to Social Assessment: A Framework for Assessing Social Change," by Kristi Branch, Douglas A. Hooper, James Thompson, and James Creighton, Contemporary Sociology: A Journal of Reviews, 14 (July): 454-455.
- (133) 1986 Kenneth C. Land, review of "Social System Accounts: Linking Social and Economic Indicators through Tangible and Behavior Settings," by Karl A. Fox, Contemporary Sociology: A Journal of Reviews, 15: 664-665.
- (134) 1986 Kenneth C. Land, review of "Policy Indicators: Links Between Social Science and Public Debate," by Duncan MacRae, Jr., Social Forces, 65 (September): 260-262.
- (135) 1987 Kenneth C. Land, review of "Behavioral and Social Science: Fifty Years of Discovery," edited by Neil J. Smelser and Dean R. Gerstein, Journal of the American Statistical Association, 82 (March): 352-353.
- (136) 1987 Kenneth C. Land, review of "Basic Dilemmas in the Social Sciences," by Hubert M. Blalock, Jr., Contemporary Sociology: A Journal of Reviews, 16 (May): 446-447.
- (137) 1987 Kenneth C. Land, review of "Communities and Crime," edited by Albert J. Reiss, Jr., and Michael Tonry, Policy Sciences, 20 (2): 176-178.
- (135) 1988 Kenneth C. Land, review of "Life Table Techniques and Their Applications," by Krishnan Namboodiri and C. M. Suchindran, American Journal of Sociology, 93 (March): 1296-1299.
- (139) 1989 Kenneth C. Land, review of "Predicting Recidivism Using Survival Models," by Peter Schmidt and Ann Dryden Witte, Contemporary Sociology: A Journal of Reviews, 18 (March): 245-246.
- (140) 1989 Craig J. Calhoun and Kenneth C. Land, "Editors' Introduction," to Review Symposium of "Handbook of Sociology," edited by Neil J. Smelser, Contemporary Sociology: A Journal of Reviews, 18 (July): 475-477.
- (141) 1989 Kenneth C. Land, review of "Migration and Politics: The Impact of Population Mobility on American Voting Behavior," by Thad A. Brown, Contemporary Sociology: A Journal of Reviews, 18 (September): 729-731.
- (142) 1989 Craig J. Calhoun and Kenneth C. Land, "Editors' Response," to Exchanges on the "Handbook" Symposium, Contemporary Sociology: A Journal of Reviews, 18 (November): 856-857.

- (143) 1990 Kenneth C. Land, review of "Structural Equation Modeling with LISREL: Essentials and Advances," by Leslie A. Hayduk, Social Forces, 69: 338-339.
- (144) 1991 Kenneth C. Land, review of "The Future of Meta-Analysis," edited by Kenneth W. Wachter and Miron L. Straf, Contemporary Sociology: A Journal of Reviews, 20 (July): 648-650.
- (145) 1992 Kenneth C. Land, review of "Crime and Justice: A Review of Research," edited by Michael Tonry and Norval Morris, Criminal Justice Review, 17 (Spring): 129-131.
- (146) 1993 Kenneth C. Land, "S-Curves Everywhere," review essay for "Predictions: Society's Telltale Signature Reveals the Past and Forecasts the Future," by Theodore Modis, Science, 259 (26 February): 1349-1350.
- (147) 1993 Kenneth C. Land, review of "Demographic Analysis: A Stochastic Approach," by Krishnan Namboodiri, Population Studies: A Journal of Demography, forthcoming.

**PAPERS AND OTHER PARTICIPATIONS AT MEETINGS OF PROFESSIONAL ASSOCIATIONS**

- (1) "Principles of Path Analysis." Paper presented at the Annual meetings of the Southwestern Sociological Association, Dallas, Texas, April, 1968.
- (2) "Duration of Residence and Prospective Migration: Further Evidence." Paper presented at the annual meetings of the Population Association of America, Boston, Massachusetts, May, 1968.
- (3) "Mathematical Formalization of Durkheim's Theory of Division of Labor." Paper presented at the annual meetings of the American Sociological Association, Boston, Massachusetts, August, 1968.
- (4) Panel Member. Session of the Uses of Computers in Sociology. Annual meetings of the Eastern Sociological Society, New York, New York, August, 1970.
- (5) "Some Exhaustible Poisson Process Models of Divorce by Marriage Cohort." Paper presented at the annual meetings of the American Sociological Association, Washington, DC, August, 1970.
- (6) "Some Problems of Statistical Inference in Dynamic Sociological Models." Paper presented at the annual meetings of the American Statistical Association, Detroit, Michigan, December, 1970.
- (7) Discussant. Session on Social Indicators. Annual meetings of the American Statistical Association, Detroit, Michigan, December, 1970.
- (8) "On the Definition of Social Indicators." Paper presented at the annual meetings of the Population Association of America, Washington, DC, April, 1971.
- (9) Chair. Session on Social Forecasting and Social Policy. Annual meetings of the American Sociological Association, Denver, Colorado, August, 1971.
- (10) "Social Indicator Models: An Overview." Paper presented at the annual meetings of the American Association for the Advancement of Science, Washington, DC, December, 1971.
- (11) "Social Indicators and their Analysis." Luncheon Roundtable Presentation at the annual meetings of the American Sociological Association, New Orleans, Louisiana, August, 1972.



- (12) "Stochastic Models for Divorce Probabilities." Paper presented at the annual meetings of the Population Association of America, New Orleans, Louisiana, April, 1973.
- (13) Discussant. Session on Social Indicators. Annual meetings of the American Sociological Association, New York, New York, August, 1973.
- (14) Discussant. Session on Formalization in Sociology, 8th World Congress, International Sociological Association, Toronto, Canada, August, 1974.
- (15) "Two Preliminary Models for the Analysis of Changes in a Social Indicator of Job Satisfaction." Paper presented at the annual meetings of the American Statistical Association, St. Louis, Missouri, August, 1974.
- (16) Discussant. Session on Trends in Divorce. Annual meetings of the Population Association of America, St. Louis, Missouri, April, 1975.
- (17) Chair. Session on Social Indicator Models. Annual meetings of the American Sociological Association, San Francisco, California, August, 1975.
- (18) "Towards a Macro Social Indicator Model of American Society: 1947-1974." (with Marcus Felson). Paper presented at the annual meetings of the American Sociological Association, San Francisco, California, August, 1975.
- (19) "The Use of Social Indicators in the Study of Community Change," (with Andrew Sofrando). Paper presented at the Spring Colloquium of the Illinois Sociological Association, University of Illinois at Urbana-Champaign, April, 1976.
- (20) "A Structural-Equation Macro Social Indicator Model of Changes in Marriage, Family, and Population in the United States: 1947-1974," (with Marcus Felson). Paper presented at the annual meetings of the Population Association of America, Montreal, Canada, April, 1976.
- (21) "Epsilon-Identifiability of Simultaneous-Equation Sociological Models," (with Marcus Felson). Paper presented at the annual meetings of the American Sociological Association, New York, New York, August 1976.
- (22) Discussant. Session on Social Networks. Annual meetings of the American Sociological Association, New York, New York, August, 1976.
- (23) "On the Construction of Dynamic Structural-Equation Models of Reported Crime Rates: Promises and Pitfalls," (with Marcus Felson). Paper presented at the annual meetings of the American Society for Criminology, Tucson, Arizona, November, 1976.

- (24) Discussant. Session on Trends in Marital Dissolution. Annual meetings of the Population Association of America, St. Louis, Missouri, April, 1977.
- (25) Panel Discussant. Session on the Interface Between Statistical Methodology and Statistical Practice. Annual meetings of the American Statistical Association. Chicago, Illinois, August, 1977.
- (26) "A Dynamic Macro Social Indicator Model of Changes in the Occupational Structure of the United States: 1947-1974," (with Fred C. Pampel and Marcus Felson). Paper presented at the annual meetings of the American Sociological Association, Chicago, Illinois, September, 1977.
- (27) "A Dynamic Macro Social Indicator Model of Changes in Educational Enrollments, Attainments, and Organizations in the United States, 1947- 1974," (with Marcus Felson). Paper presented at the annual meetings of the American Sociological Association, Chicago, Illinois, September, 1977.
- (28) "A Macrodynamic Analysis of Changes in Mortality Indexes in the United States, 1946-1975: Some Preliminary Results," (with Marilyn M. McMillen). Paper presented at the annual meetings of the American Public Health Association, Washington, DC, November 1977.
- (29) "The Demographic Approach to Social Indicators," (with Marilyn M. McMillen). Luncheon Roundtable Presentation at the annual meetings of the Population Association of America, Atlanta, Georgia, April, 1978.
- (30) "A General Algorithm for Estimating a Markov-Generated Increment- Decrement Life Table with Applications to Marital Status Patterns," (with Robert Schoen). Paper presented at the annual meetings of the Population Association of America, Atlanta, Georgia, April, 1978.
- (31) "Modeling Macro Social Change." Paper presented at the annual meetings of the American Sociological Association, San Francisco, California, August, 1978.
- (32) "Demographic Data and Social Indicators," (with Marilyn M. McMillen). Paper presented at the annual meetings of the American Sociological Association, San Francisco, August, 1978.
- (33) "Demographic and Socioeconomic Determinants of Morbidity and Disability Trends in the United States, 1958-1977," (with Marilyn M. McMillen). Paper presented at the annual meetings of the Population Association of America, Philadelphia, Pennsylvania, April, 1979.

- (34) "Methodological Considerations in the Demographic Approach to Social Accounting," (with Marilyn M. McMillen). Paper presented at the annual meetings of the American Statistical Association, Washington, DC, August, 1979.
- (35) "Has the Post-World War II Trend in Cancer Mortality Been Up or Down?" (with Marilyn M. McMillen). Roundtable Presentation at the annual meetings of the American Sociological Association, Boston, Massachusetts, August, 1979.
- (36) "On the Use of 'Hard' and 'Soft' Methodologies in Sociology." Paper presented at the annual meetings of the American Sociological Association, Boston, Massachusetts, August, 1979.
- (37) "Property Crime Rates in the United States: A Macrodynamic Analysis, 1947-1977, with Ex Ante Forecasts for the Mid-1980s," (with Lawrence E. Cohen and Marcus Felson). Paper presented at the annual meetings of the American Society of Criminology, Philadelphia, Pennsylvania, November, 1979.
- (38) "Problems in the Development of Demographic Accounts," (with Marilyn M. McMillen). Luncheon Roundtable Presentation at the annual meetings of the Population Association of America, Denver, Colorado, April, 1980.
- (39) "The Demographic Approach to Social Accounting," (with Marilyn M. McMillen). Roundtable Presentation at the annual meetings of the American Sociological Association, New York, New York, August, 1980.
- (40) "Applications of Structural Equation Models in Sociology: What Have We Learned?" (with Joe L. Spaeth). Paper presented at the annual meetings of the American Psychological Association, Montreal, Canada, September, 1980.
- (41) Chair. Session on Multidimensional Mathematical Demography. Annual meetings of the Population Association of America, Washington, DC, March, 1981.
- (42) "On the Use of 'Hard' and 'Soft' Methodologies in Sociology." Paper presented at the annual meetings of the Midwest Sociological Society, Minneapolis, Minnesota, April, 1981.
- (43) Discussant. Session on Time Series Analyses in Criminology. Annual meetings of the American Society of Criminology, Washington, DC, November, 1981.
- (44) "The Demographic Approach to Social Accounting," (with Marilyn M. McMillen). Paper presented at the annual meetings of the Population Association of America, San Diego, California, April, 1982.

- (45) "ARIMA Models of Seasonal Variation in U.S. Birth and Death Rates," (with David Cantor). Paper presented at the annual meetings of the American Sociological Association, San Francisco, California, September, 1982.
- (46) "New Group-Specific Population Estimates for the 1940s and 1950s." Luncheon Roundtable discussion at the annual meetings of the Population Association of America, Pittsburgh, Pennsylvania, April, 1983.
- (47) Discussant. Session on Quantitative Methods. Annual meetings of the Southwestern Sociological Association, Houston, Texas, March, 1983.
- (48) Panel Member. Session on Structural Equation Modeling in Theory Building: LISREL, Retrospective and Prospective. Annual meetings of the International Communication Association, Dallas, Texas, May, 1983.
- (49) Discussant. Session on Surveys of Criminal Victimization: Methodological Contributions. Annual meetings of the American Society of Criminology, Denver, Colorado, November, 1983.
- (50) "Unemployment and Crime Rates in Post-World War II United States: A Theoretical and Empirical Analysis," (with David Cantor). Paper presented at the annual meetings of the American Society of Criminology, Denver, Colorado, November, 1983.
- (51) "Improving the Accuracy of Postcensal Projections of the Civilian Noninstitutional Population: A Parameterization of Institutional Prevalence Rates," (with George C. Hough, Jr.). Paper presented at the annual meetings of the Population Association of America, Minneapolis, Minnesota, May, 1984.
- (52) "Urban Social Structural Determinants of Discrepancies Between Crime Reports and Crime Surveys," (with Lawrence E. Cohen). Paper presented at the annual meetings of the American Sociological Association, San Antonio, Texas, August, 1984.
- (53) "Explaining Discrepancies Between Crime Reports and Crime Surveys: An Urban Structural Analysis," (with Lawrence E. Cohen). Paper presented at the annual meetings of the American Society of Criminology, Cincinnati, Ohio, November, 1984.
- (54) Discussant. Session on Longitudinal Analyses of the Employment-Crime Relationship. Annual meetings of the American Society of Criminology, Cincinnati, Ohio, November, 1984.
- (55) "Voting Status Life Tables for the U.S., 1969-1980," (with George C. Hough, Jr.). Paper presented at the annual meetings of the Population Association of America, Boston, Massachusetts, March, 1985.

- (56) Chair. Session on Demographic Forecasting Models and Methods. Annual meetings of the Population Association of America, Boston, Massachusetts, March, 1985.
- (57) "Forecasting in the Social and Natural Sciences," (with Stephen H. Schneider). Paper presented at the annual meetings of the American Association for the Advancement of Science, Los Angeles, California, May, 1985.
- (58) "Voting Status Life Tables for the U.S., 1968-1980," (with George C. Hough, Jr. and Marilyn M. McMillen). Paper presented at the annual meetings of the American Sociological Association, Washington, DC, August, 1985.
- (59) "Day Effects in Total U.S. Suicides: 1975-80," (with Richard McCleary and James A. Mercy). Paper presented at the annual meetings of the American Society of Criminology, San Diego, California, November, 1985.
- (60) "On the Combination of Prevalence Rate and Increment-Decrement Methods for Tables of School Life, with Applications to the 1969-70, 1974-75, and 1979-1980 School Years," (with George C. Hough, Jr.). Paper presented at the annual meetings of the Population Association of American, San Francisco, California, April, 1986.
- (61) Discussant. Session on Demography of Crime and Justice. Annual meetings of the Population Association of America, San Francisco, California, April, 1986.
- (62) Discussant. Session on The Methodologist in Sociology (presentation by Hubert M. Blalocks, Jr.). Annual meetings of the Southern Sociological Society, New Orleans, Louisiana, April, 1986.
- (63) "Age Structure and Crime: Symmetry vs. Asymmetry, and the Projection of Crime Rates Through the 1990's," (with Lawrence E. Cohen). Paper presented at the annual meetings of the American Sociological Association, New York, New York, September, 1986.
- (64) Chair. Session on Social Models and Forecasts. Annual meetings of the Southern Sociological Society, Atlanta, Georgia, April, 1987.
- (65) "On the Accuracy of Social and Demographic Forecasts: Some Lessons from Recent Methodological and Empirical Research." Paper presented at the annual meetings of the Southern Sociological Society, Atlanta, April, 1987.
- (66) "Day Effects in Total U.S. Suicides: 1972-1981," (with Richard McCleary and James A. Mercy). Paper presented at the annual meetings of the Population Association of America, Chicago, Illinois, April, 1987.

- (67) "Recent Advances in the Methodology of School-Life Table Construction," (with George C. Hough, Jr.). Social Statistics Section Roundtable Presentation at the annual meetings of the American Statistics Association, San Francisco, California, August, 1987.
- (68) "On the Technical Efficiency of Capitalist and State Socialist Firms: A Chance-Constrained Activity Analysis," (with David Stark and Sten Thore). Paper presented at the annual meetings of the American Sociological Association, Chicago, Illinois, August, 1987.
- (69) Chair. Session on The Social Causes and Consequences of AIDS. Annual meetings of the Southern Sociological Society, Nashville, Tennessee, March, 1988.
- (70) "Demographic Projections and Futurist Scenarios for AIDS." Panel presentation at the annual meetings of the Southern Sociological Society, Nashville, Tennessee, March, 1988.
- (71) Discussant. Session on Findings from the SIPP: Issues Concerning Income, Household Structure and Marriage. Annual meetings of the Population Association of America, New Orleans, Louisiana, April, 1988.
- (72) Discussant. Session on Social Statistics on the AIDS Epidemic. Annual meetings of the American Statistical Association, New Orleans, Louisiana, August, 1988.
- (73) Chair. Session on Applications of Survival Models to Demographic Data. Annual meetings of the American Statistical Association, New Orleans, Louisiana, August, 1988.
- (74) Discussant. Session on Crime and Deterrence. Annual meetings of the American Sociological Association, Atlanta, Georgia, August, 1988.
- (75) "The Concept of Criminal Opportunity in Criminological Research." Roundtable session paper presented at the annual meetings of the American Society of Criminology, Chicago, Illinois, November, 1988.
- (76) "Trends in Adolescent, Young-Adult, and Elderly Suicide: Are There Common Underlying Structural Factors?" (with Patricia L. McCall). Paper presented at the annual meetings of the Population Association of America, Baltimore, Maryland, March, 1989.
- (77) "Violent Criminal Behavior: Is There a General and Continuing Influence of the South?" (with Patricia L. McCall and Lawrence E. Cohen). Paper presented at the annual meetings of the Southern Sociological Society, Norfolk, Virginia, April, 1989.

- (78) **Presider.** Session for Address by the President of the American Sociological Association (Joan Huber). Annual meetings of the Southern Sociological Society, Norfolk, Virginia, April, 1989.
- (79) **"Measurement Issues in Social Statistics."** Paper presented at the ASA-150 Session on The State of Social Statistics at the 150th Anniversary Meeting of the American Statistical Association, Washington, D.C., August, 1989.
- (80) **"Demographic Analysis of Voter Turnout."** Social Statistics Section Rountable Presentation at the annual meetings of the American Statistical Association, Washington, D.C., August, 1989.
- (81) **"Age Structure and Crime: Is There a Connection?"** (with Patricia L. McCall and Lawrence E. Cohen). Paper presented in the Plenary Session on Age, Crime, and the Life Course at the annual meetings of the American Sociological Association, San Francisco, California, August, 1989.
- (82) **Anchor for "I just had breakfast with ..."** Breakfast Roundtables Session at the annual meetings of the American Society of Criminology, Reno, Nevada, November, 1989.
- (83) **Chair.** Session on Structure, Crime, and Control. Annual meetings of the American Society of Criminology, Reno, Nevada, November, 1989.
- (84) **Discussant.** Session on Demographic Estimates and Projections. Annual meetings of the American Statistical Association, Anaheim, California, August, 1990.
- (85) **"Monopolies or Markets? An Analysis of the Effects of Diversity on Church Membership,"** (with Glenn Deane and Judith R. Blau). Paper presented at the annual meetings of the American Sociological Association, Washington, D.C., August, 1990.
- (86) **"Estimating the Effect of Nonresponse in Sample Surveys: An Application of Rubin's Bayesian Method to the Estimation of Community Tolerance for Obscenity,"** (with Patricia L. McCall). Paper presented at the annual meetings of the American Sociological Association, Washington, D.C., August, 1990.
- (87) **"Something that Works in Juvenile Justice: An Evaluation of the North Carolina Court Counselor's Intensive Protective Supervision Randomized Experimental Project,"** (with Patricia L. McCall and Jay R. Williams). Paper presented at the annual meetings of the American Society of Criminology, Baltimore, Maryland, November, 1990.
- (88) **"Applications - Clinical Work, Evaluations, Court Testimony."** Paper presented at the annual meetings of the Southern Sociological Society, Atlanta, Georgia, April, 1991.

- (89) Panel Member. Session for Chairpersons of Sociology Departments at the annual meetings of the Southern Sociological Society, Atlanta, Georgia, April, 1991.
- (90) Discussant. Session on Handguns and Crime at the annual meetings of the American Statistical Association, Atlanta, Georgia, August, 1991.
- (91) "Estimating the Effect of Nonresponse in Sample Surveys," (with Patricia L. McCall). Paper presented at the annual meetings of the American Statistical Association, Atlanta, Georgia, August, 1991.
- (92) "On the Large-Sample Estimation of Regression Models with Spatial Effects Terms: A Two-Stage Least Squares Approach," (with Glenn Deane). Paper presented at the annual meetings of the American Sociological Association, Cincinnati, Ohio, August, 1991.
- (93) "Religious Participation, 1850-1930: Community, Economy, and Diversity," (with Judith Blau and Kent Redding). Paper presented at the annual meetings of the American Sociological Association, Cincinnati, Ohio, August, 1991.
- (94) "Productive Efficiency Under Capitalism and State Socialism," (with C. A. Knox Lovell and Sten Thore). Paper presented at the 47th Congress of the International Institute of Public Finance, Leningrad, U.S.S.R., August, 1991. The Congress was cancelled because of the Soviet coup d'etat, but the papers that were to be presented still will be published in a proceedings volume.
- (95) "Aging, Disability and Mortality in the Duke Longitudinal Study of the Elderly." Presentation at the Fall meeting of the Triangle Area Population Society, Durham, North Carolina, November, 1991.
- (96) "Unemployment and Crime Rate Fluctuations in the Post-World War II United States: Statistical Time Series Properties and Alternative Models," (with David Cantor and Stephen T. Russell). Paper presented at the annual meetings of the American Society of Criminology, San Francisco, California, November, 1991.
- (97) Chair. Session on Latent Variable and Contextual Analysis Methods in Criminological Research. Annual Meetings of the American Society of Criminology, San Francisco, California, November, 1991.
- (98) Panel Member. Thematic Session: Can Sociology Survive the Exodus of Sub-Areas? - The Case of Criminology at the annual meetings of the Southern Sociological Society, New Orleans, Louisiana, April, 1992.



- (99) "Breast-Feeding and Post-Partum Amenorrhea in a Traditional Society: A Hazards Model Analysis," (with Dilip C. Nath, Kaushalendra Singh, and Pijush K. Talukdar). Paper presented at the annual meetings of the American Statistical Association, Boston, Massachusetts, August, 1992.
- (100) "Ethnocultural Cleavages, Denominations, and the Growth of Church Membership in the United States, 1860-1930," (with Judith R. Blau and Kent Redding). Paper presented at the annual meetings of the American Sociological Association, Pittsburgh, Pennsylvania, August, 1992.
- (101) "Organizing the Boys of Summer: Density Dependence and Population Dynamics in the Evolution of U.S. Minor League Baseball Teams, 1883-1990," (with Walter R. Davis and Judith R. Blau). Paper presented at the annual meetings of the American Sociological Association, Pittsburgh, Pennsylvania, August, 1992.
- (102) "An Evaluation of the North Carolina Court Counselors' Intensive Protective Supervision Experiment for Status Offenders: Results from Logistic and Hazards Regression Analyses," (with Patricia L. McCall and Karen F. Parker). Paper presented at the annual meetings of the American Society of Criminology, New Orleans, Louisiana, November 1992.
- (103) "On the Estimation of Increment-Decrement Life Tables with Multiple Covariates from Panel Data: The Case of Active Life Expectancy," (with Jack M. Guralnik and Dan G. Blazer). Paper presented at the annual meetings of the Population Association of America, Cincinnati, Ohio, April 1993.

**SPECIAL CONFERENCES ORGANIZED AND/OR PARTICIPATED IN**

- (1) "Formal Theory," Paper presented at the Symposium on Methodology in Sociology sponsored by the Methodology Section of the American Sociological Association. Loyola University, Chicago, Illinois, June 10- 11, 1970.
- (2) "Identification. Parameter Estimation, and Hypothesis Testing in Recursive Sociological Models." Paper presented at the SSRC Conference on Structural Equation Models in the Social Sciences directed by Arthur S. Goldberger, University of Wisconsin at Madison, November 12-16, 1970.
- (3) Participant. NSF Conference on Social Indicators, directed by Elliot R. Morss, George Washington University, Washington, DC, November 5-6, 1971.
- (4) "Social Indicator Models: An Overview." Paper presented at the Russell Sage Foundation Conference on Social Indicator Models, co-directed by K.C. Land and S. Spilerman, Russell Sage Foundation, New York, New York, July 12-15, 1972.
- (5) Participant. Conference on Subjective Measures of Quality of Life, directed by Angus Campbell, Institute for Social Research, The University of Michigan, Ann Arbor, Michigan, November 15-16, 1972.
- (6) Participant. SSRC Review Symposium on Social Indicators, 1973, directed by Robert Parke, Dulles Marriott Hotel, Reston, Virginia, February 21-23, 1974.
- (7) "The Role of Quality of Employment Indicators in General Social Reporting Systems." Paper presented at the Conference on Quality of Employment Indicators, co-directed by Albert D. Biderman and Thomas Drury, Silver Spring, Maryland, April 26-28, 1974.
- (8) "Theories, Models and Indicators of Social Change." Paper presented at the Conference on Social Indicators, directed by Serge Fanchette, UNESCO, Paris, France, May 20-22, 1974.
- (9) "Comparative Statics in Sociology: Including Mathematical Theory of Differentiation in Organizations." Paper presented at the Mathematical Social Science Board Conference on Growth and Differentiation of Organizations, co-directed by Peter Blau and K.C. Land, Arden House, Harriman, New York, May 9-12, 1974.
- (10) Participant. SSRC Conference on Socioeconomic Modeling, directed by Robert Parke, SSRC Center for Coordination of Research on Social Indicators, Washington, DC, October 3-5, 1974.

- (11) "Indicators of Changes in the American Occupational System." Paper presented at the Second Conference on Quality of Employment Indicators, directed by Albert D. Biderman, Bureau of Social Science Research, Inc., Washington, DC, June 20-21, 1975.
- (12) "The Land-Felson Macro Social Indicator Model of the United States, 1947- 74," (with Marcus Felson). Paper presented at the at the Meeting of the Seminar on Global Modeling, directed by Bert G. Hickman, National Bureau of Economic Research Committee on Econometrics and Mathematical Economics, Washington, DC, June 21-22, 1976.
- (13) Participant. Meeting on Materials for Social Reporting, directed by Philip E. Converse, SSRC Center for Coordination of Research on Social Indicators, Washington, DC, September 10, 1976.
- (14) Discussant. Session on the Position of the Disciplines on the Social and Economic Components of Environmental Impact Statements. Seminar on Economic and Social Components of Environmental Impact Statements, directed by Rabel J. Burdge and sponsored by the North Central Regional Strategy Committee on Natural Resources and the Environment and the Farm Foundation, Kansas City, Kansas, october 13-17, 1976.
- (15) Participant. Meeting of the Seminar on Global Modeling, directed by Bert G. Hickman, National Bureau of Economic Research Committee on Econometrics and Mathematical Economics, Washington, DC, March 25-26, 1977.
- (16) Session Chairman. SSRC Conference on the National Longitudinal Surveys, directed by Robert M. Hauser, SSRC Center for Coordination of Research on Social Indicators, Washington, DC, October 14-16, 1977.
- (17) Discussant. Session on Markov Random Fields. Advance Research Symposium on Stochastic Models of Social Structure, co-directed by Samuel Leinhardt and Paul W. Holland and sponsored by the Mathematical Social Science Board, Carnegie-Mellon University, Pittsburgh, Pennsylvania, December 1-2, 1977.
- (18) "The Identification of Socio-Economic Indicators for Use in Integrated Social and Economic Planning." Paper presented at the Conference on Indicators of Social and Economic Changes, directed by R. Ramalinga Iyer, UNESCO, Paris, France, April 10-13, 1978.
- (19) "Notes on Social Indicators and Public Policy: Future Perspectives." Paper presented at the International Conference on the Future of Public Administration, sponsored by the Ecole nationale d'administration publique, Universite du Quebec, Quebec City, Quebec, Canada, May 27-31, 1979.

- (20) "Demographic Accounts and the Study of Social Change, with Applications to Post-World War II United States." Paper presented at the Workshop on Social Accounting Systems: Critique and Assessment of Prospects, co-directed by F. Thomas Juster and Kenneth C. Land and sponsored by the SSRC Center for Coordination of Research on Social Indicators, Washington, DC, March 25-26, 1980.
- (21) Moderator. Session on Data Bases and Non-University Job Opportunities for Health-Care Research. Second Conference on the Clinical Application of the Social Sciences to Health, co-organized by Ann Barry Flood and William C. Cockerham and sponsored by the University of Illinois at Urbana-Champaign, Urbana-Champaign, Illinois, October 16-17, 1980.
- (22) "On the Estimation of Markov-Generated Quadratic-Survival Function Increment-Decrement Life Tables: A Development and Comparison of Demographic and Statistical Methods," (with Robert Schoen). Paper presented at the Conference on Multidimensional Mathematical Demography, co-directed by K.C. Land and Andrei Rogers and sponsored by the National Science Foundation, University of Maryland at College Park, March 23-25, 1981.
- (23) Discussant. Conference on Indicators of Organizational Change, co-directed by Gudmund Hernes and Albert J. Reiss, Jr. and sponsored by SSRC Center for Coordination of Research on Social Indicators, Washington, DC, December 3-4, 1981.
- (24) Participant. Survey of Income and Program Participation (SIPP) Workshop on Longitudinal Issues, chaired by Graham Kalton and sponsored by the Population Division, U.S. Bureau of the Census, Alexandria, Virginia, October 27-28, 1983.
- (25) "Forecasting in the Social and Natural Sciences: Some Isomorphisms," (with Stephen H. Schneider). Paper presented at the Conference on Forecasting in the Social and Natural Sciences, co-directed by Kenneth C. Land and Stephen H. Schneider and sponsored by the Social Science Research Council Committee on Social Indicators, National Center for Atmospheric Research, Boulder, Colorado, June 10-13, 1984.
- (26) "Methods for National Population Forecasts: A Critical Review." Paper presented at the First Annual Research Conference, Bureau of the Census, Sheraton International Conference Center, Reston, Virginia, March 20-23, 1985.
- (27) "Schooling, Labor Force Participation, and Employment Transitions Across the Life Course." Paper presented at the Workshop on Uses of the Survey of Income and Program Participation in Research on Youth, Families, and Aging directed by Martin David and sponsored by the Social Science Research Council, Belmont Conference Center, Elkridge, Maryland, December 1-3, 1985.

- (28) Participant. Oral Health Promotion Workshop: Secondary Data Analysis, chaired by Thomas F. Drury and sponsored by the National Institute of Dental Research, Rockville, Maryland, September 15-16, 1988.
- (29) "Chance-Constrained Efficiency Analysis," (with C. A. Knox Lovell and Sten Thore). Paper presented at the Conference on Parametric and Nonparametric Approaches to Frontier Analysis directed by C. A. Knox Lovell and sponsored by the National Science Foundation, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, September 30-October 1, 1988.
- (30) Participant. Conference on New Uses of DEA in Management, co-directed by Abraham Charnes, William W. Cooper, and Arie Y. Lewin and sponsored by the IC<sup>2</sup> Institute, the University of Texas at Austin, Austin, Texas, September 27-29, 1989.
- (31) "Evaluation of the North Carolina Court Counselor's Intensive Protective Supervision Project, 1987-91." Paper presented at the 2nd Annual Conference on Evaluating Drug Control Initiatives coordinated by the Criminal Justice Statistics Association, Washington, D.C., July 8-10, 1991.

**INVITED PRESENTATIONS AT OTHER UNIVERSITIES**

- (1) Colloquium Presentation, Department of Sociology, Cornell University, Ithaca, New York, April, 1971.
- (2) Colloquium Presentation, Department of Sociology, Indiana University, Bloomington, Indiana, April, 1971.
- (3) Workshop Presentation, Department of Sociology and Behavioral Sciences Group, Graduate School of Business, University of Chicago, Chicago, Illinois, April, 1972.
- (4) Colloquium Presentation, Department of Sociology, Indiana University, Bloomington, Indiana, November, 1974.
- (5) Colloquium Presentation, Department of Sociology, The University of Iowa, Iowa City, Iowa, March, 1975.
- (6) Workshop Presentation, School of Public and Urban Policy, University of Pennsylvania, Philadelphia, Pennsylvania, March, 1977.
- (7) Colloquium Presentation, Department of Sociology, The University of Nebraska, Lincoln, Nebraska, March, 1978.
- (8) Colloquium Presentation, Department of Sociology, The University of Texas, Austin, Texas, September, 1979.
- (9) Colloquium Presentation, Department of Sociology, University of Illinois, Chicago Circle, December, 1979.
- (10) Colloquium Presentation, Department of Sociology, Texas A&M University, College Station, Texas, September, 1983.
- (11) Colloquium Presentation, Department of Sociology, University of Minnesota, Minneapolis, Minnesota, November, 1984.
- (12) Colloquium Presentation, Department of Sociology, Duke University, Durham, North Carolina, February, 1985.
- (13) Colloquium Presentation, Institute for Research in the Social Sciences, The University of North Carolina at Chapel Hill, March, 1986.
- (14) Lunch Brownbag Presentation, Carolina Population Center, University of North Carolina at Chapel Hill, February, 1989.

Appendix F.

Curriculum Vitae of Dr. Straw

## CURRICULUM VITAE

Roger Brian Straw, Ph.D.

### PERSONAL INFORMATION:

Address:



Telephone:



Birth date; SSN



### EDUCATION:

Hope College, Holland, MI	B.A., <u>cum laude</u> , 1973
The Pennsylvania State University	M.S., 1976
Northwestern University	Ph.D., 1982

### PROFESSIONAL EXPERIENCE:

1992-present	Acting Director Office of Evaluation, Extramural Policy, and Review Center for Mental Health Services Substance Abuse and Mental Health Services Administration Rockville, MD
1990-1992	Associate Director for Research Office of Programs for the Homeless Mentally Ill National Institute of Mental Health Rockville, MD
1983-1990	Project Manager Program Evaluation and Methodology Division United States General Accounting Office Washington, DC



1982-1983      Regional Health Planner  
 Piedmont Health Systems Agency  
 Greensboro, NC

1980-1982      Research and Evaluation Consultant  
 Winston Salem, NC

1977-1978      Inpatient Aide/Evaluator  
 Quinco Consulting Center  
 Columbus, IN

**PROFESSIONAL ORGANIZATIONS:**

American Evaluation Association  
 American Public Health Association

**SELECTED PUBLICATIONS AND PRESENTATIONS:**

GAO reports and testimony

PEMD-84-6      An Evaluation of the 1981 AFDC Changes: Initial Results (1  
 testimony)

PEMD-85-4      An Evaluation of the 1981 AFDC Changes: Final Report  
 PEMD-86-10      Posthospital Care: Efforts to Evaluate Medicare Prospective  
 Payment Effects Are Insufficient (2 testimonies)

PEMD-87-5BR      Posthospital Care: Discharge Planners Report Increasing  
 Difficulty in Placing Medicare Patients (2 testimonies)

PEMD-88-14      Medical Devices: FDA's 510(k) Operations Could Be Improved  
 PEMD-90-7      Medicare: Improvements Needed in the Identification of  
 Inappropriate Hospital Care

PEMD-90-14      Quality Assurance: A Comprehensive, National Strategy for  
 Health Care is Needed

Publications

Scott, R. R. and Straw, R.E. FDA's 510(k) review procedure for medical devices.  
Medical Device and Diagnostic Industry, 1990, 12(1), 62-65 and 152-162.

Bernstein, J. and Straw, R.B. Letter to the Editor [Invited] on posthospital care for  
 the elderly. The Pride Institute Journal, 1987, 6(3), 30.

Straw, M.K., Straw, R.B., and others. The Master Questionnaire: Preliminary

report on an obesity assessment device. Addictive Behaviors, 1984, 9, 1-10.

Straw, R. B. Deinstitutionalization in Mental Health. In R. Light (Ed.), Evaluation Studies Review Annual, Volume 8. Beverly Hills, CA: Sage Publications, 1983.

Straw, R. B., Fitzgerald, N. M., Cook, T. D., and Thomas, S. J. The Use of Routine Monitoring Data to Identify Effects and Explore Their Causes. In G. A. Forehand (Ed.), Applications of Time-series Analysis to Evaluation. New Directions in Program Evaluation, 1982, No. 16, 83-97.

Straw, R.B. Meta-analytic approaches to literature review: Some basic principles. The Behavior Therapist, 1982, 5(2), 62-64.

Cook, T.D. and Straw, R.B. Quasi-experimentation: An introduction to its priority questions and mechanics. In T.S. Glynn and L.G. Richards (Eds.), Methodological approaches to marijuana policy research. National Institute of Drug Abuse Research Monograph 33. Washington, DC: U.S. Government Printing Office, 1981.

Shadish, W. R., Straw, R. B., and others. Nursing Home Care for Mental Patients: Descriptive data and some propositions. American Journal of Community Psychology. 1981, 9, 617-633.

St. Pierre, R. G., Cook, T. D., and Straw, R. B. An Evaluation of the Nutrition Education and Training Program: Findings from Nebraska. Evaluation and Program Planning, 1981, 4, 335-344.

Straw, R.B., and Cordray, D.S. Tabular comparison of standards for evaluation. In R.F. Boruch and D.S. Cordray (Eds.), An Appraisal of Educational Program Evaluations: Federal, State, and Local Agencies. Evanston, IL: Northwestern University, 1980.

Ravizza, R.J., Straw, R.B., and Long, P.D. Laminar origin of efferent projections from auditory cortex in the Golden Syrian hamster. Brain Research, 1976, 114, 497-500.

## Presentations

- Straw, R.B. Using research to improve programs for the homeless mentally ill. Paper presented at the annual convention of the American Psychological Association, Boston, MA, 1990.
- Straw, R.B. Federal efforts to address the problem of homeless mentally ill persons or individuals with Alcohol or other substance abuse disorders. Invited panel presented at the annual convention of the American Evaluation Association, Washington, DC, 1990.
- Straw, R.B. The evaluation of McKinney Demonstration projects for homeless mentally ill adults. Symposium presented at the annual convention of the American Evaluation Association, Washington, DC, 1990.
- Bernstein, J. and Straw, R. B. Evaluating DRG impacts on long-term care: The federal role. Paper presented at the annual convention of the American Public Health Association, Washington, DC, 1985.
- Shipman, S. and Straw, R. B. An Evaluation of OBRA Effects on the National AFDC Program and on Program Participants in Five Localities. Paper presented at the annual convention of the Evaluation Research Society, San Francisco, 1984.
- Straw, R.B. and Straw, M.K. Further evidence on the reliability and validity of the Revised Master Questionnaire. Paper presented at the annual convention of the Association for the Advancement of Behavior Therapy, Toronto, 1981.
- Straw, R.B. and Straw, M.K. The generalizability of skinfold measures in obesity treatment outcome studies. Paper presented at the annual convention of the Association for the Advancement of Behavior Therapy, New York, 1980.
- Straw, R.B., Straw, M.K., and Craighead, L.W. Psychometric properties of the Master Questionnaire: A cluster analytic study of an obesity assessment device. Paper presented at the annual convention of the Association for the Advancement of Behavior Therapy, San Francisco, 1979.

## AWARDS

### GAO

- Special Commendation Award(5/84) for extraordinary analytic efforts leading to achievement of a superior and complex report on the 1981 AFDC changes
- Special Commendation Award-1985 for exceptional effort in completing the multiple products requested by the Senate Special Committee on Aging
- Special Commendation Award-1987 for exemplary management, meeting all milestones on time, completing the job within planned costs and without problems, leading to a quality report on an important problem
- Outstanding Achievement Award-1987 for sustained overall outstanding performance and contributions to the mission and goals of the Program Evaluation and Methodology Division
- Special Commendation Award-1988 for your outstanding work in the highly detailed medical devices study and your exceptional contributions technically, managerially, and personally
- Pay-for-performance bonus-1989

### NIMH/ADAMHA

- Special Achievement Award (1990, 1991, 1992) for superior job performance
- Administrator's Award for Meritorious Achievement-1991(group award) in recognition of outstanding national leadership in stimulating research on homeless mentally ill persons and working with other federal, state, and local agencies to address their needs