

**Annual Report**  
**July 1, 1994 - June 30, 1995**  
**Department of Epidemiology**

**I. Department Organization and Administration**

Support Staff  
(as of June 30, 1995)

Administrative Staff

Gail King	Administrative Manager
Joyce Allen	Registrar
Nancy Colvin	Assistant Registrar
Carolyn Cooke	Fiscal Manager
Stephanie Miller	Accounting Technician
Amy Webb	Accounting Technician
Susan King	Accounting Clerk
Terry Hudgins	Director, Computer Services
Lesa McPherson	Human Resources Manager
Betsy Seagroves	Administrative Secretary

Secretarial Staff

Esa Bloedon	Office Assistant
Anne Crumpler	Office Assistant
Jane Foust	Office Assistant
Edna Lennon	Office Assistant
Carol Morton	Office Assistant
Virginia Reid	Office Assistant
Carmen Woody	Office Assistant

Research Staff

Phyllis Johnson	Administrative Assistant
Lorraine Alexander	Research Associate
Susanne Wolf	Research Associate
Darraha Degnan	Social Research Associate
Catherine Paton	Social Research Associate
Marilyn Knowles	Social Research Assistant
Tammie Carlton	Social Research Assistant
Jadis Robinson	Social Research Assistant
Girard Salak	Social Research Assistant
Minna Wiley	Social Research Assistant
Jonathan Frye	Research Technician
Deanne Rhodes	Research Technician
Boyd Yount	Research Technician
Natalie Young	Research Technician
Catherine VanDoren	Staff Clinic Nurse

Research Staff (Continued)

Debra Weiner	Statistician
Gerri Roberts	Statistician

Computer Programming Staff

Robert Kleckner	Applications Analyst Programmer
Vic Rhodes	Applications Analyst Programmer
Joy Wood	Applications Analyst Programmer
Eileen Gregory	Applications Analyst Programmer
Richard Howard	Applications Analyst Programmer
Joanna Smith	Applications Analyst Programmer
Jessica Tse	Applications Analyst Programmer
Ans Janssens	Applications Programmer
Veda Manley	Data Processing Coordinator

Employee Terminations

Crystal Burnette	Accounting Technician
Mimi Haebig	Office Assistant
Helen Sun	Research Technician
Kathy Sutton	Clerk/Typist

**II. Faculty and Students****A. List of Faculty [\* indicates primary of multiple academic appointments]****1. Full-Time Faculty**

Ralph S. Baric, \*Associate Professor, Epidemiology  
 Associate Professor, Microbiology & Immunology  
 Kathleen Conway, Research Assistant Professor  
 Hilton Goulson, Emeritus Professor  
 J. Ed Hall, \*Associate Professor, Epidemiology  
 Associate Professor, Pathology  
 Gerardo Heiss, Professor  
 Irva Hertz-Picciotto, Assistant Professor  
 Barbara S. Hulka, \*Kenan Professor  
 Clinical Professor, Family Medicine  
 Adjunct Professor of Community and Family  
 Medicine, Duke University Medical Center

Michel A. Ibrahim, Dean, School of Public Health  
\*Professor, Epidemiology  
Professor, Social and Administrative Medicine  
Berton H. Kaplan, Professor  
Lenore Kohlmeier, Professor, Epidemiology  
\*Professor, Nutrition  
Edison Liu, Associate Professor, Epidemiology  
\*Associate Professor, Medicine  
Dana Loomis, Assistant Professor  
Robert Millikan, Assistant Professor  
Patricia Moorman, Research Assistant Professor  
Beth Newman, Assistant Professor  
Andrew Olshan, Assistant Professor  
Wendie Robbins, Assistant Professor, Epidemiology  
\*Clinical Assistant Professor, Curriculum in Public Health Nursing  
Wayne Rosamond, Assistant Professor  
Rachel Royce, Assistant Professor  
David A. Savitz, Professor  
Victor J. Schoenbach, Associate Professor  
J. Richard Seed, Professor  
Cecil G. Sheps (Emeritus), Professor, Epidemiology  
\*Professor, Social and Administrative Medicine  
Carl M. Shy, \*Professor & Chair, Epidemiology  
Professor, Environmental Sciences and Engineering  
Clinical Professor, Family Medicine  
Lola Stamm, Associate Professor  
June Stevens, Associate Professor, Epidemiology  
\*Associate Professor, Nutrition  
James Thomas, Assistant Professor  
Herman A. Tyroler, Emeritus, Alumni Distinguished Professor  
Marilyn Vine, Assistant Professor  
David Weber, Associate Professor, Epidemiology  
\*Associate Professor, Medicine  
Kristen Weigle, \*Assistant Professor, Epidemiology  
Assistant Professor, Pediatrics  
Steven B. Wing, Assistant Professor

2. Part-Time Faculty

Christine Moe, Research Assistant Professor

3. Visiting Faculty

None

4. Adjunct and Fixed-Term Joint Appointments

Timothy Aldrich, Adjunct Assistant Professor  
Naomar Almeida-Filho, Adjunct Associate Professor  
Elizabeth Andrews, Adjunct Assistant Professor  
Michael H. Arrighi, Adjunct Assistant Professor  
Donna Baird, Adjunct Assistant Professor  
John Barefoot, Adjunct Associate Professor  
James C. Barrett, Adjunct Professor  
James Beck, Adjunct Professor  
    \*Professor, Dental Ecology  
Richard A. Berzon, Adjunct Assistant Professor  
Dan German Blazer, Adjunct Professor  
Brian A. Boehlecke, Clinical Associate Professor  
    \*Associate Professor, Medicine  
W. Eugene Broadhead, Adjunct Assistant Professor  
Timothy S. Carey, Clinical Associate Professor  
    \*Associate Professor, Medicine  
Dennis A. Clements, III, Adjunct Assistant Professor  
Thomas Cole, Adjunct Assistant Professor  
Joan Cornoni-Huntley, Adjunct Professor  
John R. Crouse, Adjunct Associate Professor  
Gordon H. DeFries, Clinical Professor, Epidemiology  
    \*Professor, Social and Administrative Medicine  
Richard B. Everson, Adjunct Professor  
Jo-David Fine, Clinical Professor, Epidemiology  
    \*Professor, Dermatology  
Suzanne Fletcher, Clinical Professor  
Judith A. Fortney, Adjunct Associate Professor  
Jean French, Adjunct Professor  
Joanne Garrett, Adjunct Assistant Professor  
    \*Research Associate Professor, Sheps Center for Health Services  
    Research  
Peter Garrett, Adjunct Assistant Professor  
Raymond S. Greenberg, Adjunct Associate Professor  
Jack Griffith, Adjunct Professor  
Harry A. Guess, Adjunct Professor  
Curtis G. Hames, Clinical Professor  
Russell P. Harris, Adjunct Assistant Professor  
    \*Assistant Professor, Medicine  
Carl G. Hayes, Adjunct Professor  
Michael Hogan, Adjunct Associate Professor  
Ronald J. Hunt, Clinical Professor  
    \*Professor, Dental Ecology  
Nancy Hunter, Adjunct Assistant Professor

Debra E. Irwin, Adjunct Assistant Professor  
Sherman James, Adjunct Professor  
Ulrich Keil, Adjunct Professor  
Suzanne Landis, Adjunct Assistant Professor  
    \*Clinical Assistant Professor, Medicine  
Eugene J. Lengerich, Adjunct Assistant Professor  
Ruth E. Little, Adjunct Professor  
J. Newton MacCormack, Adjunct Associate Professor  
Peter Margolis, Clinical Assistant Professor  
    \*Assistant Professor, Pediatrics  
Margaret F. McCann, Adjunct Assistant Professor  
William F. McDonnell, Adjunct Associate Professor  
Melinda S. Meade, Adjunct Professor, Epidemiology  
    \*Professor, Geography  
Wilbur Milhous, Adjunct Associate Professor  
Dexter Morris, Adjunct Assistant Professor  
    \*Assistant Professor, Emergency Medicine  
Azmi A. Nabulsi, Adjunct Assistant Professor  
George R. Parkerson, Adjunct Associate Professor  
Miquel Porta, Adjunct Associate Professor  
David F. Ransohoff, Clinical Professor  
    \*Professor, Medicine  
Walter J. Rogan, Adjunct Associate Professor  
Michael J. Rosenberg, Adjunct Associate Professor  
Carol Runyan, Adjunct Associate Professor  
    \*Associate Professor, Health Behavior and Health Education  
Desmond K. Runyan, Clinical Assistant Professor  
    \*Assistant Professor, Social and Administrative Medicine  
Gregory Samsa, Adjunct Assistant Professor  
Dale Sandler, Adjunct Associate Professor  
Robert S. Sandler, Clinical Associate Professor  
    \*Associate Professor, Medicine  
Joellen M. Schildkraut, Adjunct Assistant Professor  
David Sheps, Clinical Professor  
    \*Professor, Cardiology  
Ilene C. Siegler, Adjunct Associate Professor  
Philip Sloane, Clinical Associate Professor  
    \*Professor, Family Medicine  
David C. Sokal, Adjunct Assistant Professor  
C. Gregory Smith, Adjunct Assistant Professor  
John Stamm, Adjunct Professor  
    \*Professor and Dean, Dentistry  
Paul E. Stang, Adjunct Assistant Professor  
David Strogatz, Adjunct Assistant Professor  
Patricia Tennis, Adjunct Assistant Professor

Hugh H. Tilson, Adjunct Professor  
James F. Toole, Adjunct Professor  
Edward H. Wagner, Clinical Professor  
Jane Weintraub, Adjunct Associate Professor  
    \*Professor, Dental Ecology  
Alice White, Adjunct Assistant Professor  
Timothy Wilcosky, Adjunct Assistant Professor  
Allen J. Wilcox, Adjunct Professor  
Mark E. Williams, Clinical Associate Professor, Epidemiology  
    \*Associate Professor, Medicine  
Redford Williams, Adjunct Professor  
Bonnie C. Yankaskas, Adjunct Assistant Professor  
    \* Assistant Professor, Radiology

B. Changes During the Year

1. Additions:

Wendie Robbins, Assistant Professor, Epidemiology  
    \*Clinical Assistant Professor, Curriculum of Public Health Nursing

2. Promotions:

Kristen A. Weigle promoted to Associate Professor

3. Changes in Rank:

None

4. Leaves:

Dana Loomis - Off Campus Assignment

5. Losses: Resignations

Lester Lee, Research Assistant Professor  
Jennifer Ratcliffe, Research Associate Professor

Losses: Retirement

Herman A. Tyroler, Alumni Distinguished Professor

C. Honors

*Faculty Honors*

Dr. Barbara S. Hulka presented the National Institute of Environmental Health Sciences Hans L. Falk Memorial Lecture, Breast Cancer: Cause and Prevention on December 12, 1994.

Dr. Berton Kaplan served on the UNC-Chapel Hill Reaccreditation Self-Study Task Force on Faculty.

*Student Honors*

Antonio Cunha received the Sidney Kark Award for Distinguished Teaching Assistance.

**III. Instructional Programs**

- A. There have been no major curriculum changes during the 1994-95 academic year.
- B. There have been no program additions or deletions during the 1994-95 academic year.
- C. Learning objectives for the MPH, MSPH and PhD programs have not changed during the past year. Requirements for the new DrPH program under Public Health Leadership have been defined as described below:

DrPH: The Doctor of Public Health (DrPH) is offered in conjunction with the schoolwide Public Health Leadership program. A student entering the leadership program to major in epidemiology must have an MPH in epidemiology or equivalent coursework.

DrPH students spend twelve months in residency on campus, during which they complete forty-one credit hours, including a sequence of courses and seminars prescribed by the leadership program and twelve hours of coursework specified by the department of epidemiology.

After the twelve-month residency, students return to their places of employment, where they complete their dissertations, which are of an applied nature. Students are also required to take written and oral preliminary examinations.



- D. There were no special courses or programs offered during the past academic year.
- E. Field training experience in Epidemiology is not handled through the method of placement with an agency or institution. Students enter the program with satisfactory research experience or work individually with faculty in ongoing research projects.

#### **IV. Research Programs**

##### Grant Awards

Assessments of North Carolina Children, 1995-1996, PI: **Kristen Weigle**, North Carolina Department of Environment, Health and Natural Resources. \$113,025

Carotenoids PUFA's myocardial infarction, PI: **Lenore Kohlmeier**, Institute of Nutrition. \$4938.00 [Submitted through the Department of Nutrition, School of Public Health]

Development of Molecular Screening Strategies for Antimalarial Drugs, PI: **Ralph S. Baric**, World Health Organization. \$75,000

Diarrheal Illness Surveillance in Child Day Care, PI: **Kristen Weigle**, MCHB, HRSA, USPHS. \$475,851

Dietary Factors Related to Adverse Birth Outcomes, PI: **David A. Savitz**, Agency for Health Care and Policy Research. \$20,700 [Submitted through the Carolina Population Center]

Ecological Analysis of Sexually Transmitted Diseases, PI: **James Thomas**, Association of Schools of Public Health. \$95,000

Environment and Breast Cancer, PI: **David A. Savitz**, National Cancer Institute. \$201,794 [Submitted through the Carolina Population Center]

Epidemiological Studies of the Accident at Three Mile Island, PI: **Steven B. Wing**, Center for Environmental Studies, John Snow Institute. \$112,384

Epidemiology of Preterm Premature Rupture of Membranes, PI: **David A. Savitz**, National Institutes of Health. \$1,123,427

Immunization Surveys of North Carolina Parents, PI: **Kristen Weigle**, North Carolina Department of Environment, Health and Natural Resources. \$43,930

Minority Cancer Control Research Program, PI: **Victor Schoenbach**, National Cancer Institute. \$509,134 [Submitted through the Lineberger Cancer Research Center]

Molecular Markers of Carotenoid, and Polyunsaturated Fatty Acid Intake and Breast Cancer Risk in a Heterogeneous Population, PI: **Lenore Kohlmeier**, Department of the Army, US Medical Research & Development. \$597,031

Occupational Injury Surveillance in North Carolina, PI: **Dana Loomis**, Centers for Disease Control. \$750,000 [Submitted through the UNC Injury Center]

Pesticides and Breast Cancer in North Carolina, PI: **David A. Savitz**, National Institutes of Health. \$1,024,458 [Submitted through the Lineberger Cancer Research Center]

Vitamin D and Breast Cancer, PI: Esther Janowsky, Co-PI: **Barbara Hulka**, Department of Defense. \$140,321

What Can Epidemiology Tell Us About Strategies for Combining Risk Assessments for the Individual Constituents of Carcinogenic Complex Mixture? An Example Using Cigarette Smoke, PI: **Irva Hertz-Picciotto**, U.S. Environmental Protection Agency. \$315,954

Women's Health Initiative: Clinical Trials and Observational Study (WHI), Co-PI: **Barbara Hulka**, National Institutes of Health. \$729,138 [Submitted through Health Promotion Disease Prevention]

## Publications

- Aldrich TE, Vann D, **Moorman PG**, **Newman B**: Rapid reporting of cancer incidence in a population-based study of breast cancer: one constructive use of a central cancer registry. *Breast Cancer Research and Treatment* 1995; 35:61-4.
- Andjelkovich DA, **Shy CM**, **Brown MH**, **Janszen DB**, et.al.: Mortality of iron foundry workers III. Lung Cancer Case-Control Study. *JOM* 1994; 36:1301-1309.
- Aro A, **Kardinaal AFM**, **Salminen I**, **Kark JD**, **Riemersma RA**, **Delgado-Rodriguez J**, **Gomez-Aracena J**, **Huttunen JK**, **Kohlmeier L**, **Martin BC**, **Martin-Moreno JM**, **Mazaev VP**, **Ringstad J**, **Thamm M**, **van 't Veer P**, **Kok FJ**: Adipose tissue isomeric trans fatty acids and the risk of myocardial infarction in different countries: the EURAMIC Study: *The Lancet* 1995; 345:273-78.
- Arrighi HM**, **Hertz-Picciotto I**: Evaluation of methods to control the healthy worker survivor effect: an example using arsenic exposure and respiratory cancer. In: *Proceedings of the 9th International Symposium on Epidemiology in Occupational Health*. U.S. DHHS, Public Health Service, DHHS (NIOSH) Publication No. 94-112; 1994, pp 274-275.
- Barnett E**, **Savitz DA**, **Hertz-Picciotto I**: Maternal obesity and excess risk of perinatal mortality: evidence from a large biracial cohort. *State Center for Health and Environmental Statistics No. 81*, March 1994, Raleigh, NC, North Carolina Department of Environment, Health and Natural Resources.
- Bell NH**, **Gordon L**, **Stevens J**, **Shary JR**: Demonstration that bone mineral density of the lumbar spine, trochanter, and femoral neck is higher in black than in white young men. *Calcified Tissue International* 1995; 56:11-13.
- Brodin EC**, **Shahar E**, **Rosamond WD**, **McGovern P**, **Sprafka JM**, **Doliszny K**, **Luepker RV**: Unconfirmed acute myocardial infarction in the coronary care unit: patient's characteristics, medical care and one-year outcome. *Coronary Artery Disease* 1994; 5:737-743.
- Carozza SE**, **Olshan AF**, **Faustman EM**, **Gula MJ**, **Kolonel LN**, **Austin DF**, **West D**, **Weiss NS**, **Swanson M**, **Lyon JL**, **Hedley-White T**, **Gilles FH**, **Aschenbrener C**, **Leviton A**: Maternal exposure to N-nitrosatable drugs as a risk factor for childhood brain tumors. *International Journal of Epidemiology* 1995; 24:308-312.
- Casper ML**, **Wing S**, **Anda RF**, **Knowles M**, **Pollard RA**: The shifting stroke belt: Changes in the geographic pattern of stroke mortality in the United States, 1962-1988. *Stroke* 1995; 26:755-760.
- Conway K**, **Edmiston S**, **Fried DB**, **Hulka BS**, **Garrett PA**, **Liu ET**: Ha-ras rare alleles in breast cancer susceptibility. *Breast Cancer Research and Treatment* 1995; 35:97-104.

- Cooper GS, Hulka BS, Baird DD, Savitz DA, Hughes CL, Weinberg CR, Coleman RA, Shields JM: Galactose consumption, metabolism, and gonadotropin levels in women of late reproductive age. *Fertil Steril* 1994; 62:1168-1175.
- Cooper GS, Baird DD, Hulka BS, Weinberg CR, Savitz DA, Hughes CL Jr: Follicle-stimulating hormone concentrations in relation to active and passive smoking. *Obstet Gynecol* 1995; 85:407-11.
- Edwards KL, Austin MA, Newman B, Mayer E, Krauss RM, Selby N: Multivariate analysis of the insulin resistance syndrome in women. *Arteriosclerosis and Thrombosis* 1994; 14:1940-5.
- Herrinton LJ, Weiss NS, Olshan AF: The Epidemiology of Multiple Myeloma. In: *Myeloma*, Editors: Bergsagel D, Kyle RA, Malpas JS, Oxford University Press, 1994.
- Hertz-Picciotto I, Arrighi HM: Arsenic, circulatory disease, and the healthy worker survivor effect. In: *Proceedings of the 9th International Symposium on Epidemiology in Occupational Health*. U.S. DHHS, Public Health Service, DHHS (NIOSH) Publication No. 94-112, 1994, pp 281-288.
- Hertz-Picciotto I, Hu S-W: Contribution of cadmium in cigarettes to lung cancer: An evaluation of risk assessment methodologies. *Arch Env Health* 1994; 49(4):297-302.
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- Hill HA, Schoenbach VJ, Kleinbaum DG, Stretcher VJ, Orleans CT, Gebiski VJ, Kaplan BH: A Longitudinal Analysis of Predictors of Quitting Smoking among Participants in a Self-help Intervention Trial. *Addictive Behavior* 1994; 19:159-173.
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# Department of Epidemiology 1994-1995 Organization Chart

Members (one each)  
 Secretary  
 Student  
 Research Staff  
 Admin. Staff  
 Programmer  
 Post-doc

Internal Advisory Board

Chair, Carl Shy  
 Executive Committee  
 (3 Faculty & Administrative Manager)

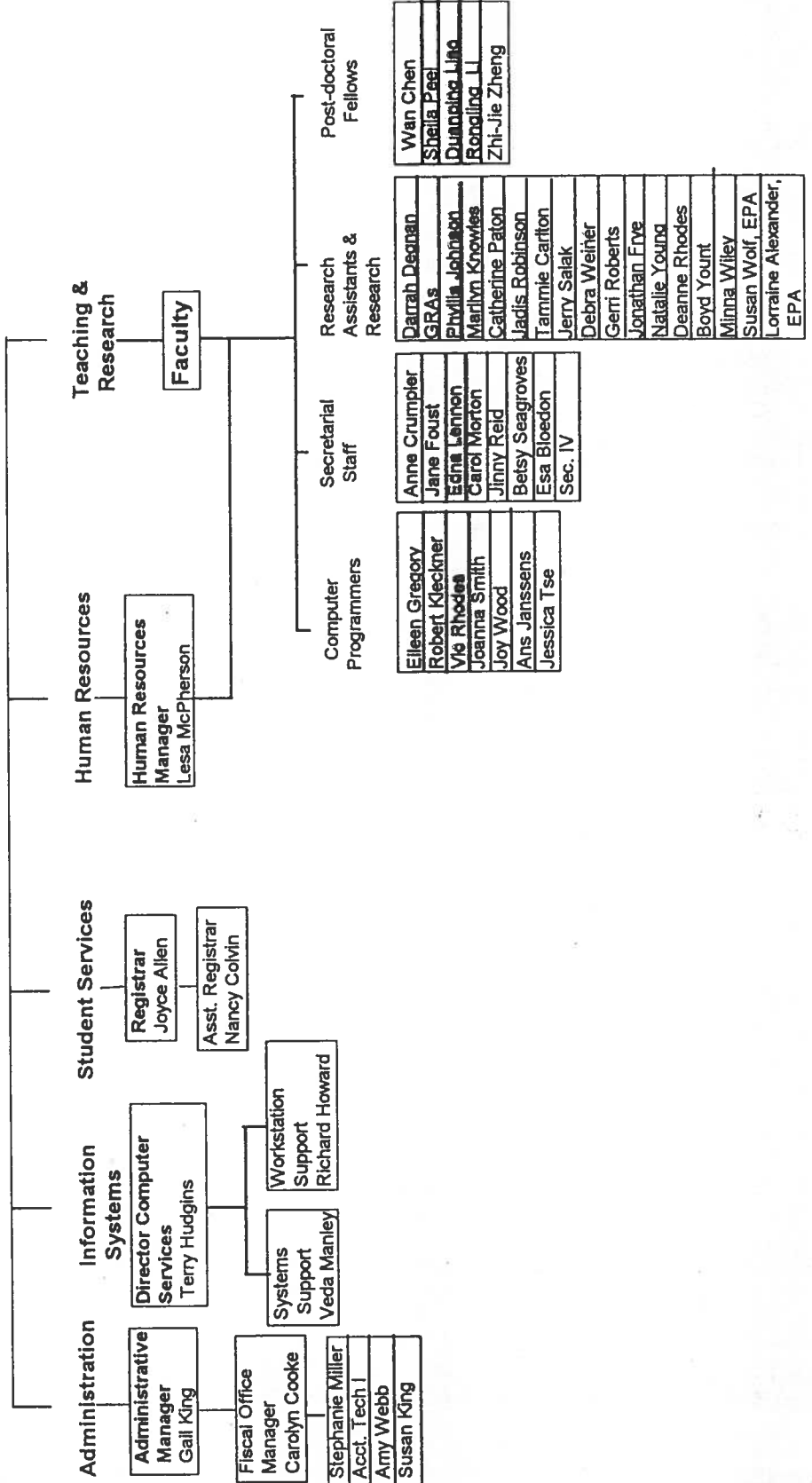




TABLE 10  
 PUBLICATIONS OF FACULTY BY DEPARTMENT  
 1993-94

Department/Curriculum	No. Faculty	No. Publishing	No. Publications
Health Policy and Administration	23	13	62
Biostatistics	24	21	79
Environmental Sciences and Engineering	36	31	166
Epidemiology	31	26	121
Health Behavior and Health Education	13	12	48
Maternal and Child Health	14	14	55
Public Health Nursing	9	5	22
Nutrition	24	18	82
<b>TOTAL</b>	<b>174</b>	<b>139</b>	<b>636</b>

TABLE 8  
 FACULTY CHANGES BY DEPARTMENT\*  
 1993-94

Department/Curriculum	Additions	Promotions	Leaves	Resignations	Retirements	Deaths
Health Policy and Administration	14	0	2	2	1	0
Biostatistics	0	0	1	0	0	0
Environmental Sciences and Engineering	3	4	2	1	0	0
Epidemiology	4-1	1	2-1	0-2	0-1	0
Health Behavior and Health Education	0	2	0	0	0	0
Maternal and Child Health	0	0	0	0	0	0
Public Health Nursing	1	0	1	0	1	0
Nutrition	8	3	0	3	1	0
<b>TOTAL</b>	<b>30</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>0</b>

\*Full-time faculty only. See individual departments for rank and specialization.