

CURRICULUM VITAE

June 25, 1979

EVELYN J. BOWERS
(Formerly, Evelyn Bowers Harner)

PERSONAL:

Home Address: 222 Edgemont Avenue
Ardmore, Penna. 19003

Home Phone: 215-649-3400

Date of Birth: April 11, 1937

Dependents: Janet & Nancy
ages 18 & 17

Place of Birth: Providence, Rhode Island

PROFESSION:

Biological Anthropologist

EDUCATION:

Classical High School, Providence, Rhode Island, 1952-1955
English Curriculum

University of Pennsylvania, School of Education 1955-1956

University of Pennsylvania, College for Women 1956-1959, B.A.
Natural Science Curriculum

University of Pennsylvania, Graduate School of Arts and Sciences 1968-1975
Anthropology Curriculum, Masters Degree

Current Status: ABD; Ph.D. Candidate in Anthropology; course
work completed, language requirement satisfied (German),
dissertation proposal accepted, final oral examination passed,
research completed and analysis in progress.

RESEARCH INTERESTS:

Human variation; evolutionary human biology; selective factors in modern
populations; inter-relationships among ecology, physiology, and genetics,
and their alteration with growth, development and aging; the influence of
these factors on and by cultural variation; and their relationships to
demographic parameters; also the history of Anthropology, Biology and
Medicine.

EMPLOYMENT:

- 1976-Present Anthropometrist, Krogman Growth Center for Research in Child Growth and Development, Children's Hospital of Philadelphia.
- Duties: Taking anthropometric measurements and blood pressures for a study of the Antecedents of Adolescent Hypertension, and for clinical evaluations, evaluating x-rays for skeletal age.
- 1974-Present Consultant, Air-Pollution-environmental chemical-chronic disease studies, Department of Statistics, Wharton School, University of Pennsylvania; R.J. Hickey, Director.
- 1974-Present Instructor, Community College of Philadelphia, Taught Physical Anthropology, Cultural Anthropology, Biology.

EMPLOYMENT HISTORY:

- 1/77-10/77 Consultant, Obesity Study, Department of Epidemiology, School of Medicine, University of Pennsylvania, Dr. Robert W. Mack, Chief Investigator.
- Duties: Evaluating x-rays for skeletal age.
- 1974-1976 Visiting Lecturer, Community College of Philadelphia. Teaching Biology 101 and 102, first and second semesters of Introductory Biology; Biology 235, Concepts in Natural Science; Anthropology 111, Physical Anthropology; and Anthropology 112, Cultural Anthropology.
- 1974 Reader, Department of Anthropology, University of Pennsylvania; assisted with Anthropology 14, Survey of World Archeology.
- 1973-1975 British Museum (Natural History) Orkney Islands Population Survey, D.R. Brothwell, Director, Surveyed the anthropometry, genetic variation, and demography of the past and present populations of the Orkney Islands of Scotland.
- 1973-1974 Bibliographer, Museum of the University of Pennsylvania, Alaskan Population Studies Project, S.H. Katz, Director. Verified and correlated computer printouts of Alaskan population data.
- 1973 Instructor, College of General Studies, University of Pennsylvania. Taught Anthropology 3C, General Anthropology III, Introduction to Physical Anthropology.

EMPLOYMENT HISTORY (continued)

- 1972-1973 Behavioral Research Analyst, Management and Behavioral Science Center, Wharton School, University of Pennsylvania. Investigated problems in human biochemical ecology utilizing the systems approach to biocultural evolution. Specific studies dealt with air pollution and smoking.
- 1972 Instructor, Summer School, University of Pennsylvania, Taught Anthropology 403S: General Anthropology III, Summer, Physical Anthropology.
- 1972 Teaching Fellow, College of Thematic Studies, University of Pennsylvania; Taught CTS-Sc 008: Ecology, Natural Selection and Contemporary Man. (This was an introductory survey of human bio-ecology and evolution, which I developed for this program.)
- 1971 Teaching Assistant, Anthropology Department, University of Pennsylvania; taught laboratories, lectured and assisted with administration for Anthropology 3, Introduction to Physical Anthropology.
- 1968-1971 Research Bibliographer, Institute for Environmental Studies, and the Fels Institute, University of Pennsylvania; Environmental Pollution Project, R.J. Hickey, Director. This was a long term project investigating interactions in the human ecosystem utilizing multivariate statistical methods. It was concerned with associations between human pathologies--largely chronic diseases of aging, but also neonatal problems--and environmental factors, for example, specific chemical air pollutants and the hardness of drinking water. While associated with the Institute for Environmental Studies, I assisted with the research, writing and editing of Section III, "Relationship between air pollution and health", in Part 3 of Government Organization for an Air Resource Management and Control System in the Wenierdel Region.
- A Research Inquiry in Environmental Control Administration, for the Regional Conference of Elected Officials. I also assisted with research reports to sponsors and wrote a summary of the research for lay audiences. This appears under publications.
- While associated with the Fels Institute, I continued the above duties. I assisted R.J. Hickey with the preparation of a chapter on "Air Pollution" for Environmental, Resources, Pollution and Society, edited by William W. Murdock.

EMPLOYMENT HISTORY (continued)

- 1969 Assisted S.H. Katz with the editing of the "Symposium of Human Adaptation" from the 38th Annual Meeting of the American Association of Physical Anthropologists, which appeared in Vol. 32 of the American Journal of Physical Anthropology.
- 1965-1968 Research Bibliographer, Institute for Cooperative Research, University of Pennsylvania, performed information retrieval in chemical, physical and biological sciences, and indexed acquisitions for a mechanized information retrieval system.
- 1967 Taught field biology to educationally disadvantaged junior high school girls for the Chester Schools Science Camp, operated by the School System of the City of Chester, Pennsylvania.
- 1960 Research Assistant to cardiologist R.C. Penneys, Hospital of the University of Pennsylvania. Assisted with experimental research in periphoro-vascular physiology, and with cardiography.
- 1953-1960 Water Safety Instructor, American Red Cross, taught swimming, boating, life saving and water safety for the American Red Cross, the Girl Scouts, and the School of Nursing of the Hospital of the University of Pennsylvania.
- 1955-1958 (Academic years): Work Scholarship, University of Pennsylvania, did general clerical work in the Office of Scholarships and Student Aid of the University of Pennsylvania.
- 1958 Statistical clerk, Educational Tests, Inc.: Assisted in the preparation and standarization of tests for the educational market.
- NOTE: From June to December 1959 I was at home with my son David who was born in March and died in December of that year. From April 1960 to May 1965, I was also at home caring for Janet, Nancy and Beverly, except for short intervals in clerical positions with temporary help agencies. Beverly died in January, 1966. Both she and David inherited the Werdnig-Hoffman Syndrome, a neuromuscular degenerative disease, and as a result died of pneumonia.

PRESENTATIONS:

"Population Studies in the Orkney Islands. Preliminary Comments," E.J. Bowers, presented in the Symposium on Demography and Biological Anthropology, at the 72nd Annual Meeting of the American Anthropological Association, New Orleans, 1973.

"Atmospheric Sulfur Dioxide, Nitrogen Dioxide and Lead as Mutagenic Hazards to Human Health," R.J. Hickey, R.C. Clelland, D.E. Boyce, and E.J. Bowers, presented at the 1974 Meeting of the American Mutagen Society, Washington, D.C.

"Secular Trend in Philadelphia Black Adolescents," P.B. Eveleth, E.J. Bowers and J.I. Schall, presented at the 47th Annual Meeting of the American Association of Physical Anthropologists, April 1978, Toronto, Canada.

"Effects of Height, Weight and Maturity Status on Blood Pressure During Childhood and Adolescence," S.H. Katz, M.L. Hediger, W.F. Barker, J.R. Cocroft, E.J. Bowers, J.I. Schall, P.B. Eveleth and A.B. Gruskin, presented at the National Conference on High Blood Pressure Control, Washington, D.C., April 1979.

"Relationship Between Pseudoepiphyses and Growth in Philadelphia Adolescents", E.J. Bowers, J.I. Schall, P.B. Eveleth, W.F. Barker and S.H. Katz, presented at the 48th Annual Meeting of the American Association of Physical Anthropologists, April 6, 1979, San Francisco.

PUBLICATIONS:

"Air pollution and chronic diseases," E.B. Harner, Institute for Environmental Studies, Philadelphia, Pennsylvania May 1969.

Ecological statistical studies on environmental pollution and chronic disease, R.J. Hickey, D.E. Boyce, E.B. Harner, and R.C. Clelland, IEEE Transactions on Geoscience Electronics, Vol. GE-8 No. 4, pp. 1ff, October, 1970.

Ecological statistical studies on environmental pollution and chronic disease in metropolitan areas of the United States. R.J. Hickey, D.E. Boyce, E.B. Harner, and R.C. Clelland, RSRI Discussion Paper Series No. 35, October, 1970, Regional Science Research Institute, Philadelphia, Pennsylvania.

Ethological and biochemical interactions and their relationships to smoking, R.J. Hickey and E.B. Harner, Chapter 19, in Smoking Behavior, Motives and Incentives, W.L. Dunn, ed., V.H. Winston & Sons, Inc., Washington, D.C., 1973.

Smoking, pollution and health, R.J. Hickey, E.B. Harner and R.C. Clelland, The Lancet December 23, 1972, pp. 1362-1363.

Smoking, birth weight, development and pollution, R.J. Hickey, R.C. Clelland, and E.B. Harner, The Lancet, January 22, 1973, p. 270.

PUBLICATIONS (continued)

Behavioral regulation of physiological homeostasis: Smoking, pollution and health, R.J. Hickey, E.B. Harner, D.E. Boyce and R.C. Clelland, Die Naturwissenschaften, 1973.

Coffee drinking, smoking, pollution and cardiovascular disease: a problem of self-selection, R.J. Hickey, D.E. Boyce, E.B. Harner, and R.C. Clelland, The Lancet May 5, 1973, p. 1003.

Smoking hazards to the fetus, R.J. Hickey, E.B. Harner, R.C. Clelland, and D.E. Boyce, British Medical Journal 3, p. 501, September 1, 1973. (Typesetter's errors corrected, September 8, p. 552)

Smoking and pregnancy, R.J. Hickey, D.E. Boyce, R.C. Clelland and E.B. Harner, Nature Vol. 246, pp. 177-178, November 16, 1973.

Air pollution, smoking and chronic disease: influence of constitutional factors, R.J. Hickey, D.E. Boyce, R.C. Clelland and E. B. Harner, J. Occup. Med. 16, pp. 4-5, 1974.

Carbon monoxide and smoking, R.J. Hickey, R.C. Clelland, D.E. Boyce, and E.B. Harner, The Lancet March 9, 1974, pp. 409-410.

Coffee, tobacco and cardiovascular disease: the self-selection problem, R.J. Hickey, R.C. Clelland, D.E. Boyce and E.J. Bowers, J. Am. Med. Assoc. 228: 160, 1974.

Atmospheric sulfur dioxide, nitrogen dioxide and lead as mutagenic hazards to human health, abstract; R.J. Hickey, R.C. Clelland, D.E. Boyce, and E.J. Bowers, Mutation Res. 26: 445-446, 1974.

Reproduction of Ecological statistical studies concerning environmental pollution and chronic disease (IEEE Trans. in Geosci. Electronics (GE-8: 186-202, 1970) with editing in Chapter 11, Environmental pollution and human health, pp. 317-340, in B.J.I. Berry and F.E. Horton, eds., Urban environmental management: planning for pollution control, Prentice-Hall, Inc., Englewood Cliffs, N.J., 1974.

Carbon monoxide, smoking and constitution, R.J. Hickey, R.C. Clelland, D.E. Boyce and E.J. Bowers, The Lancet September 28, 1974, pp. 187-188.

Smoking, health and confusion, R.J. Hickey, R.C. Clelland, D.E. Boyce and E.J. Bowers, J. Am. Med. Assoc. 230: 209-210, 1974.

Cigarette smoke as a carcinogen? R.J. Hickey, R.C. Clelland, D.E. Boyce, and E.J. Bowers, Am. Rev. Resp. Dis. 111: 105-106, 1975.

Carboxyhaemoglobin: environmental and constitutional factors, R.J. Hickey, E.J. Bowers, D.E. Boyce and R.C. Clelland, The Lancet January 4, 1975, pp. 40-41.