

2000 Notable American Women, 2004

PROFESSIONAL ASSOCIATION MEMBERSHIPS:

The Biometric Society, 1974-present (member, Program Committee for ENAR 2001; Regional Advisory Board 2001-2003)
 American Statistical Association, 1974-present
 Society for Epidemiologic Research, 1979-present
 Society for Industrial and Applied Mathematics, 1980-present
 Graduate Women in Science, 1979-1997; VP, 1983-84, Pres., 1984-85, Omicron Chapter;
 National Meeting Registrar, 1989; National Chair, Honorary Awards Committee, 1994-95
 Sigma Xi Honorary Scientific Society, 1998-present

COMMUNITY ACTIVITIES: Science Fair Judge, 1983,1985-1993, Fairfax Co., Va., Montgomery Co., Md.
 Participant, "Science by Women Career Day", Thomas Jefferson HS for Science & Technology

PROFESSIONAL SERVICE: Publications Officer, Statistical Graphics Section of the American Statistical Association, 2005-6
 Section Representative, Statistical Graphics Section of the American Statistical Association, 2007-9
 Advisory Board member for George Mason University Biostatistics Department, 2006-present

EMPLOYMENT HISTORY

StatNet Consulting LLC, Gaithersburg, MD

Owner and Chief Statistician, specializing in spatial statistical analysis.

National Cancer Institute, Bethesda, MD

Senior Mathematical Statistician, Surveillance Research and Applications Branch, Surveillance Research Program, Division of Cancer Control and Population Studies (6/7/99 – 3/11/07)

* Coordinator of geographic research for the Division: this included spatial analysis, automated mapping, data mining and statistical modeling of concomitant demographic and biomedical data, assessment of the appropriateness of available methodology, development of new methodology as necessary, particularly in the areas of geographic/spatial applications and ecologic surveillance. Served as a Division resource and team leader for the application of geographic information systems and other special methods to combine and analyze health, social, and environmental data. Organized and chaired the NCI GIS Special Interest Group, which included staff from several NCI Divisions. (see <http://gis.cancer.gov/nci/research.html>)

* Project leader, statistical modeling of small area cancer rates: Projects included hierarchical modeling, models of spatial and temporal autocorrelation, cluster detection, and small area estimation. Responsible for modeling that predicted cancer occurrence in every U.S. county annually, based on data reported to the NCI SEER cancer registries (see <http://srab.cancer.gov/incidence>). Spatial methods extended to project cancer risks into the future by county, based on data from 40 states through the North American Association of Central Cancer Registries. This model method is now being used by the American Cancer Society to provide the estimated number of cancer cases in the coming year in *Cancer Facts & Figures*, the most cited cancer publication.

* Research leader in the area of cognitive aspects of data visualization and research advisor in the more general area of risk communication to clinical, research and lay audiences. Invited to participate in workshop to advise the National Academy of Sciences on the direction of research in statistical data visualization.

* Statistical consultant for the Division. Projects included: an examination of whether state mammogram screening policies and payment coverage impacts patterns of screening at the county level beyond the effects of characteristics of the individual women and their communities (hierarchical logistic model) and a study of disparities in prostate cancer occurrence between black and white men in Virginia (spatial random effects model).

National Center for Health Statistics, CDC, Hyattsville, MD

Mathematical Statistician (Biomedical), Statistical Technology Staff, Office of Research and Methodology (1991 - 1999)

* Project director, NCHS *Atlas of United States Mortality*

Responsible for the planning, design, data analysis and production of the first atlas of mortality maps at NCHS and a companion CD. Developed a hierarchical linear mixed effects model for analyzing mortality data that permits mapping of age-specific rates; manuscript describing method is in press in *Statistics in Medicine*. This was the first U.S. mortality atlas to map all leading causes of death, to map data for blacks separately, and to map age-specific rates.

Since the Atlas was released in April, 1997, it has received the following awards:

1. CDC Honor Award for Statistical Research and Services, 1997, to the authors "for outstanding contributions in spatial data analysis and in the field of public health, and for furthering CDC's mission by producing the first U.S. Mortality Atlas."
2. 1996 CDC Health Communications Award for Overall Presentation and Effectiveness in Print Communications
3. 1997 International Blue Pencil Award for Best Illustrated Book of 1997, given by the National Association of Government Communicators

* Co-Project leader of Cognitive Aspects of Maps working group

Planned experiments, directed contractors or in-house personnel in conducting experiments to determine how statistical map readers extract data from a map. Published articles and technical reports summarized in "Cognitive Aspects of Statistical Mapping", NCHS Working Paper Series Report No. 18. Results of research used to design new mortality atlas which has received numerous awards (see above). On Coordinating Committee for the First International Health Geographics Conference (10/98); organized session on cognitive aspects of mapping.

* Project director, Geographic Information Systems (GIS) for examining patterns in mortality data

Supervised Assoc. of Schools of Public Health Fellow in compiling a geographic database of sociodemographic, behavioral, and environmental risk factors for leading causes of death in the U.S. Extended statistical models used in *Atlas* to include these additional predictors of mortality for homicide data as well as changing spatial patterns of mortality over time for breast cancer and homicide.

Invited to present GIS research at the National Center for Geographic Information and Analysis Workshop on Epidemiology (11/14-16/97), ESRI Middle Atlantic Users' Group Meeting (12/10/97), Washington Statistical Society (2/5/98), and EPA (4/22/98).

Invited to present results of analyses of cardiovascular disease at meetings of the NIH NHLBI National High Blood Pressure Education Program Coordinating Committee (11/6/97), the Coronary Valley Conference (4/16-17/98), and the Scientific Meeting of the American Society of Hypertension (5/14/98).

* Specialist in health data modeling

Developed mixed effects model that fits mortality data well and accounts for more variation than previous methods. Extended this model to examine spatio-temporal patterns; application to breast cancer data identified areas where mortality rates are not yet declining.

* Statistical collaborator with other NCHS staff on analyses of epidemiologic and spatially-related data.

* Co-chair of NCHS Editorial Committee, member of NCHS Awards Committee

* Other federal committees: Department of Veterans Affairs Merit Review Committee for Epidemiology (study section), U.S. Geologic Service Steering Committee for the National Atlas Project

* Served as biostatistical reviewer as requested: NSF grant reviews (Probability and Statistics and Geography and Regional Science Programs); CDC Statistical Awards; Howard Hughes Medical Institute Fellowship Program (2/98); Committee for Epidemiology Grant Reviews, Dept. of Veterans Affairs (ongoing since 2/98); and numerous journals, including *Epidemiology*, *Statistics in Medicine*, *American Journal of Public Health*, *Social Science and Medicine*.

Georgetown University, Washington, DC

Research Associate Professor, Department of Community and Family Medicine, Division of Biostatistics and Epidemiology (1988 - 1991)

Adjunct Assistant Professor, same department (1983-1988)

* Director, Biostatistics Unit, Vincent T. Lombardi Cancer Research Center

Responsible for the statistical design and analysis of clinical trials and the development of databases and computer programs useful for clinical and laboratory research at the Center. Set up new Biostatistics Unit, coordinated with Data Manager in

setting up procedures for data collection and quality control. Wrote and presented the Biostatistics Core Facility portion of proposal to NCI for a Cancer Center Support Grant; we were the only new cancer center to win this award during 1990.

- * Statistical consultant and collaborator for laboratory, clinical and epidemiologic studies at the Cancer Center
- * Principal Investigator for American Cancer Society grant to study geographic patterns of cigarette smoking, including a multivariate analysis of various measures of smoking, and the correlation of these patterns with lung cancer mortality.
- * Statistical collaborator on several NIH-funded grants; contributions include geographic correlation analysis of prostate cancer mortality rates and measures of environmental pollutants, and development of improved statistical methods to classify cell lines as radioresistant or radiosensitive.
- * Conducted research into statistical methods for clinical and epidemiologic data. Models developed to identify patients most likely to fail after bone marrow transplantation, and to identify genetically fast or slow metabolizers of certain drugs who may be at increased risk of breast cancer and other disorders. Statistical techniques developed to better estimate attributable risk, sensitivity/specificity, and measures of agreement.
- * Taught "Problems in Health Research" for master's level students in Biostatistics/Epidemiology (1984-91), a hands-on, computer-based course covering the design and analysis of epidemiologic data. Overall instructor rating by students for the last 2 years was 5.0 (outstanding). Rating for "Problems" course, which I developed, was 4.7 and 4.8 for the 2 years the course was rated separately.
- * Summer practicum advisor for master's level students in Biostatistics/Epidemiology since 1983; all 8 students successfully completed project and thesis requirements within 6 months.

National Cancer Institute, National Institutes of Health, Bethesda, MD

Biostatistician (1977-1988), Environmental Epidemiology Branch

- * Project leader and 1st author of *Atlas of U.S. Cancer Mortality among Whites: 1950-1980* and *Atlas of U.S. Cancer Mortality among Nonwhites: 1950-1980*, books of computer-generated color maps depicting the geographic distribution of cancer mortality rates and time trends for 34 types of cancer. Designed computer system to efficiently store, retrieve and analyze data on 9 million death certificates. Published 3 additional papers describing methods. These were the first mortality atlases to show maps by time and to present results of a statistical (Poisson) modeling of the data. New clusters of lung cancer among white women and prostate cancer among black men were first identified by these maps.
- * Project Officer for 2 large (>2000 persons each) interview studies of cancer in Louisiana and Texas. Designed study, wrote Requests for Proposals, collaborated with contractors on: final design, details of conduct of study over 2-3 years, analysis of resulting data, co-authorship of papers. Monitored progress and quality control, conducted site visits, prepared contract compliance reports, authorized payments (> \$1 million each). All contractors successfully produced required deliverables within schedules and budgets. Ongoing collaboration resulted in 18 publications to date, including results of 1st U.S. case-control study of passive smoking and lung cancer. Elevated cancer rates in both states were found to be due more to lifestyle factors than to occupational exposures, as had been hypothesized.
- * Statistical consultant for over 40 professionals. Advised on study design, statistical analysis, computer implementation of methods, and presentation of results. Collaboration resulted in co-authorship of 18 publications, including the 1st study linking snuff with oral cancer. Numerous studies found that diet was a major risk factor for several types of cancer.
- * Developed or extended existing statistical techniques for analysis of epidemiologic data. Devised a measure of geographic variation of cancer rates allowing comparison of types of cancer; analysis showed a growing uniformity of cancer rates since 1950. Extended methods of sample size determination to more complex study designs than formerly available. Studied the accuracy of variance estimates from quasi-Newton nonlinear optimization methods. Developed a method to rank the contribution of individual foods to the micronutrient intake of the population; this led to the landmark series of papers by Block, Dresser and Hartman which ranked the contribution to intakes of specific micronutrients in the U.S. diet.
- * Applied complex nonlinear models to epidemiologic data. Examples include Poisson modeling of cancer mortality time trends, logistic analysis of case-control data, and estimation of 3-dimensional volumes of dog skulls from 2-dimensional

measures. Developed model that includes as subsets previously proposed models of interaction between 2 disease risk factors. Organized and chaired symposium on modeling in epidemiology which drew 500 attendees at a national conference.

* Designed and supervised implementation of user-friendly computer programs and SAS macros for statistical analysis of epidemiologic data. Developed Lotus templates for sample size determination and epidemiologic analysis. Tools allow basic statistical analysis without consultation.

* Microcomputer consultant for over 100 professionals, specializing in statistical software. Technical consultant for Small Business Innovative Research contracts for development of micro-computer programs for epidemiologic analysis (including EGRET and StatXact). Interviewed for Japanese public TV program showing U.S. "high-tech" approach to cancer research.

* Developed microcomputer data bases for use in epidemiologic research, including cancer atlas data and a nutrient database from a national survey.

Johns Hopkins University School of Public Health, Baltimore, MD Graduate Teaching Assistant (1974-1977), Biostatistics

Johns Hopkins University full-time student (1972-1974)

Greater Baltimore Medical Center, Baltimore, MD Systems analyst, computer programming supervisor, accounting and database applications (1969-1972)

Commercial Credit Computer Corp., Baltimore, MD Computer programmer for financial applications (1966-1969)

BIBLIOGRAPHY

JOURNAL ARTICLES

1. Cheng, Wind-show, Mulvihill, JJ, Greene, MH, Pickle, LW, Tsai, S, and Whang-peng, JS: Sister chromatid exchanges and chromosomes in chronic myelogenous leukemia and cancer families. *International Journal of Cancer* 23:8-13, 1979.
2. Gottlieb, MS, Pickle, LW, Blot, WJ, and Fraumeni, JF, Jr: Lung cancer in Louisiana: A death certificate analysis. *JNCI* 63:1131-1138, 1979.
3. Yassur, Y, Pickle, LW, Fine, SE, Singerman, L, Orth, DH, and Patz, A: Optic disk neovascularization and diabetic retinopathy: I. A system for grading proliferation at the optic nerve head in patients with proliferative diabetic retinopathy. *Br J of Ophthalmology* 64:69-76, 1980.
4. Yassur, Y, Pickle, LW, Fine, SL, Singerman, L, Orth, DH, and Patz, A: Optic disk neovascularization and diabetic retinopathy: II. Natural history and results of photocoagulation treatment. *Br J of Ophthalmology* 64:77-86, 1980.
5. Pickle, LW, and Gottlieb, MS: Pancreatic cancer in Louisiana. *Am J Public Health* 70:256-259, 1980.
6. Decoufle, P, Thomas, TL, and Pickle, LW: Comparison of the proportionate mortality rates and standardized mortality ratio risk measures. *Am J Epidemiol* 111:263-269, 1980.
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10. Gottlieb, MS and Pickle, LW: Bladder cancer mortality in Louisiana. *J La State Medical Society* 133:6-9, 1981.

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13. Hayes, HM, Jr, Biggar, RJ, Pickle, LW, Hoover, R, and Toft, JD, II: Canine transmissible venereal tumor: A model for Kaposi's sarcoma? *Am J Epidemiol* 117:108-109, 1983.
14. Pickle, LW, Morris, LE, and Blot, WJ: Information available from surrogate respondents in case-control interview studies. *Am J Epidemiol* 118:99-108, 1983.
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16. Correa, P, Pickle, LW, Fontham, E, Lin, Y, and Haenszel, W: Passive smoking and lung cancer. *Lancet*, September 10, 1983, p. 595-597.
17. Pickle, LW, Greene, MG, Ziegler, RG, Toledo, A, Hoover, R, Lynch, HT, and Fraumeni, JF, Jr: Colorectal cancer in rural Nebraska. *Cancer Research* 44:363-369, 1984.
18. Morin, MM, Pickle, LW, and Mason, TJ: Geographic patterns of ethnic groups in the United States. *Am J Public Health* 74:133-139, 1984.
19. Winn, DM, Ziegler, RG, Pickle, LW, Gridley, G, Blot, WJ, Hoover, R: Diet in the etiology of oral and pharyngeal cancer among southern women. *Cancer Research* 44:1216-1222, 1984.
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ABSTRACTS

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INVITED PRESENTATIONS

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5. Pickle, LW, Blot, WJ, and Fraumeni, JF, Jr: National and regional patterns of lung cancer mortality. *Department of Pathology, Louisiana State University*, New Orleans, Louisiana, October 12, 1979.
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11. Pickle, LW: Geographic and temporal patterns of cancer mortality. Environmental Epidemiology Branch seminar, NCI, Bethesda, Maryland, May 14, 1982.
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13. Mulvihill, JJ, Pickle, LW, Parry, D, Greene, MH: Overview of genetic analysis: Segregation analysis and genetic linkage. Environmental Epidemiology Branch seminar, NCI, Bethesda, Maryland, April 8, 1983.
14. Pickle, LW, Dalager, NA: Lung cancer risk factors in southern Louisiana. Environmental Epidemiology Branch seminar, NCI, Bethesda, Maryland, January 18, 1985.
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17. Pickle, LW: Overview of the use of modeling in epidemiology. Organized and chaired symposium for Society for Epidemiologic Research, Pittsburgh, PA, June, 1986.
18. Pickle, LW: The new NCI cancer atlas. National Cancer Institute Directors' Meeting, Bethesda, MD, April 3, 1987.
19. Pickle, LW: The new United States cancer atlas. The 19th International Symposium of the Northrhine Westfalia Cancer Society, Dusseldorf, West Germany, August 3, 1987.
20. Pickle, LW: Methodologic and statistical issues in disease mapping. Geography Awareness Week, National Center for Health Statistics, Hyattsville, MD, November 30, 1988.
21. Pickle, LW: Geographic patterns of U.S. cancer mortality rates: A comparison of white and nonwhite patterns. Lombardi Cancer Research Center Seminar Series, Georgetown University, Washington, DC, February 10, 1989.
22. Pickle, LW: User experiences with maximum likelihood estimation. Organized and chaired session for the 21st Annual Symposium on the Interface of Computer Science and Statistics, Orlando, FL, April 9-12, 1989.
23. Pickle, LW: Statistics in clinical trials. Clinical Fellows Seminar Series, Lombardi Cancer Research Center, Georgetown University, April 26, 1989.
24. Pickle, LW: Applications of statistical models in medical research. Lombardi Cancer Research Center, Lab Data Meeting, May 18, 1989.
25. Pickle, LW: What's modeling all about? American College of Epidemiology, Basic Science Seminar, Oct. 4, 1989, sponsored by Georgetown University.
26. Pickle, LW: Statistics for clinical trials and epidemiologic studies. Clinical Fellow Seminar Series, Lombardi Cancer Research Center, April, 1990.
27. Pickle, LW: Basic study designs in epidemiology. Guest lecture, Pathology Dept, Georgetown University Medical School, July, 1990.

28. Pickle LW: A tutorial on spreadsheets and graphics software. Lombardi Cancer Center, July 17, 1990.
29. Pickle LW: Trends in breast cancer incidence rates. Estrogens and breast cancer conference, September 14, 1990.
30. Pickle LW: Black-white differences in prostate cancer mortality patterns. Urologic Oncology Group seminar, Georgetown University Hospital, Oct 4, 1990.
31. Pickle LW: The interquartile range as a measure of geographic heterogeneity of disease rates. George Mason University, Institute for Computational Statistics. Dec 14, 1990.
32. Pickle LW: Where are the women scientists? 70th Annual Conference of Graduate Women in Science, Mt. Vernon College, Washington, DC, June 28, 1991.
33. Pickle LW, Croner C: Applications of GIS at NCHS. CDC Mapping Morning, September 26, 1991.
34. Pickle LW: Geographic patterns and time trends of cancer mortality rates. NCHS University Visitation Program, Uniformed Services University for the Health Sciences, Bethesda, MD, February 11, 1992.
35. Pickle LW: Careers in mathematics. Women in Science Career Day, Thomas Jefferson High School for Science and Technology, Alexandria, VA, March 28, 1992.
36. Pickle LW: Where are the women scientists? NCHS University Visitation Program, Dept. of Biochemistry, Johns Hopkins School of Hygiene and Public Health, April 10, 1992.
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40. Pickle LW: Demonstration of dynamic trend mapping software. Public Health Conference on Records and Statistics, Washington, DC, July 19, 1993.
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43. Herrmann D, Croner C, Pickle LW: A cognitive model for map-reading. Environmental Technology '94. Washington, DC, June 1994.
44. Pickle, LW: Design of the new NCHS mortality atlas. International Symposium on Computer Mapping in Epidemiology and Environmental Health, Tampa FL, Feb. 14, 1995.
45. Sebrechts M, Pickle LW, Herrmann D: Mapping for the masses: Dynamic mapping on a standard PC. Statistical Graphics Section, American Association Annual Meeting, Orlando, FL, August 15, 1995.
46. Pickle LW, Mungiole M, Jones G, White AA: The new NCHS Atlas of United States Mortality. University Visitation Talks. University of Colorado at Denver, Dept. of Mathematics, Nov. 13, 1996; Colorado State University, Dept. of Statistics,

Nov. 14, 1996; Indiana State University, Dept. of Geography and community lectures, April 24, 1997; University of Maryland Medical School, Dept. of Epidemiology, May 29, 1997; The Pennsylvania State University, Dept. of Geography, Oct. 24, 1997.

47. Pickle LW, Mungiole M, Gillum R: Changing patterns of stroke mortality in the U.S. Semi-annual meeting of the Coordinating Committee of the National High Blood Pressure Education Program of the National Heart, Lung, and Blood Institute, Washington, DC, Nov. 6, 1997.

48. Pickle LW, Cubbin C, Mungiole M: Examining geographic patterns of mortality in the U.S. Workshop on GIS and Epidemiology, National Center for Geographic Information and Analysis, State University of New York at Buffalo, Buffalo, NY, Nov. 14-16, 1997; ESRI Mid-Atlantic Users' Group Meeting, Baltimore, MD, Dec. 9-10, 1997.

49. Pickle LW, Gillum R: Comparisons between the Coronary Valley and the stroke belt. Coronary Valley Symposium, University of Kentucky, Lexington, KY, April 16-17, 1998.

50. Gillum R, Pickle LW: Regional variation in CHD mortality. Coronary Valley Symposium, University of Kentucky, Lexington, KY, April 16-17, 1998.

51. Pickle LW, Gillum R: Mapping cardiovascular mortality in the United States. (Keynote) Thirteenth Scientific Meeting of the American Society of Hypertension. May 14, 1998.

52. Pickle, LW. The new NCHS mortality atlas. Keynote. Annual Meeting of the German Society of Biometry, Medical Informatics and Epidemiology. Brehman, Germany. (Read by Dr. Maria Blettner, IARC). Sept. 14, 1998.

53. Pickle LW, Herrmann DJ, MacEachren A, Brewer CA: Cognitive aspects of statistical map design: II. Specific map elements. International Health Geographic Conference, Baltimore, MD, Oct 17, 1998.

54. Pickle LW, Cubbin C: Examining Geographic Patterns of U.S. Mortality Rates. Washington Statistical Society, Hyattsville, MD, Feb 5, 1998; EPA, Washington, DC, April, 1998; National Cancer Institute, Bethesda, MD, November, 1998.

55. Pickle LW: Geographic patterns of cancer in the U.S. Appalachian Leadership Initiative on Cancer, Bethesda, MD, May 6, 1998.

56. Pickle LW, Herrmann DJ. Cognitive research for the design of statistical rate maps. Proceedings of the Survey Research Section of the 1999 Annual Meeting of the American Statistical Association, Baltimore, MD, August 8, 1999.

57. Pickle LW. The uses of GIS in public health. ESRI Middle Atlantic Users' Group Meeting, Baltimore, MD, Nov 16, 1999.

58. Pickle LW. Geographic Information Systems. Presentation to the National Cancer Advisory Board, Bethesda, MD, Dec 8, 1999.

59. Pickle LW. Predicting cancer incidence in non-SEER counties. Proceedings of the Biometrics Section of the 2000 Annual Meeting of the American Statistical Association, Aug. 7, 2000.

60. Pickle LW. Mapping mortality rates in the U.S. Harvard School of Public Health, Feb. 7, 2001.

61. Pickle LW. Predicting cancer incidence in non-SEER areas. Small Area Estimation Conference, Potomac, MD, April 14, 2001; UCLA School of Public Health, June 13, 2001.

62. Pickle LW. Overview, Geographic Information Systems in Cancer Research (organized ½ day training course), Miami, FL, June 3, 2001.

63. Pickle LW. Research in map design. 2001 CDC Cancer Conference. Sept. 6, 2001, Atlanta, GA.

64. Pickle LW. Spatial analysis of cancer. SEER Workshop for Statisticians. Sept. 21, 2001, Rockville, MD.

65. Pickle LW: Predicting the number of new cancer cases for all U.S. states. North American Association of Central Cancer Registries. June 13, 2002, Toronto, Canada; NCI SEER PI meeting, Oct 17, 2002, Rockville, MD.
66. Pickle LW: New tools for understanding cancer patterns. National Cancer Advisory Board, Sept 9, 2002, Bethesda, MD; Network for Cancer Control Research among American Indian and Alaskan Native Populations, Oct 16, 2002, Rockville, MD; NCI SEER PI meeting, Oct 17, 2002, Rockville, MD.
67. Fritz A, Carr D, Pickle LW: New tools for SEER quality control. NCI SEER PI meeting, Oct 17, 2002, Rockville, MD
68. Pickle LW: Mapping and spatial analysis. Cancer Surveillance Institute II, sponsored by NCI and NAACCR, March 12, 2004, Rockville, MD.
69. Pickle LW: Geovisualization tools for cancer data. National Institute of Standards and Technology Spring Research Conference, May 19, 2004, Gaithersburg, MD.
70. Pickle LW: Improving the communication of geographic patterns of disease through computer-based tools, American Association for the Advancement of Science, Feb. 18, 2005.
71. Pickle LW: Using the California Health Interview Survey in spatial analyses, UCLA, Feb. 28, 2005.
72. Pickle LW: Spatial statistical analysis at the National Cancer Institute. ESRI GIS Health Conference, Oct 26, 2005, Chicago, IL.
73. Pickle LW: A new quality control tool for SEER data. SEER managers meeting, Nov 16, 2005, Potomac MD.
74. Pickle LW: Predicting cancer incidence rates. SEER PI meeting, Nov 17, 2005, Potomac MD.
75. Pickle LW: Cancer incidence prediction models. George Mason University Biostatistics Department, Feb. 13, 2006.
76. Pickle LW: GIS activities at the National Cancer Institute. Geographical Sciences Committee, National Research Council, National Academy of Sciences, March 2, 2006, Washington, DC.
77. Pickle LW: GIS and spatial analysis. 1 day class in Summer Epidemiology Program, Johns Hopkins University, June 29-30, 2006, Baltimore MD.
78. Pickle LW: GIS activities at the National Cancer Institute. Mapping Science Committee, National Research Council, National Academy of Sciences, Sept 12, 2006, Washington, DC.
79. Pickle LW: Discussant for Morris Hansen lecture of the Washington Statistical Society by M Goodchild, Statistical perspectives on spatial social science, Nov. 6, 2006, Washington DC.
80. Pickle LW: Cancer incidence prediction model. SEER PI meeting, Nov 17, 2006, Potomac MD.
81. Pickle LW: Graphical displays for the analysis and presentation of complex statistical data. The Biometric Society ENAR meeting, Mar 14, 2007.
82. Pickle LW: Spatial analysis: Combining GIS and statistical tools . Keynote address of the 3rd Annual GIS & Public Health Day, State University of New York at Albany, May 1, 2007, Albany NY.
83. Pickle LW: Cancer atlases. Plenary address at Annual Meeting of the North American Association of Central Cancer Registries, June 5, 2007, Detroit MI.
84. Pickle LW: Hierarchical regression models and cancer incidence forecasting. International Workshop on Methods of Forecasting the Cancer Burden, October 11, 2007, Toronto Canada.

85. Pickle LW: Combining geographic, visualization and statistical tools for a more complete analysis of public health data. Keynote speaker for 2007 Texas A&M University Symposium on Geospatial Technologies and Public Health: Mapping disease promoting health, November 17, 2007, College Station TX.
86. Pickle LW: Spatial cancer epidemiology at NCI: How measurement limitations led to this request for proposals. Workshop on Automating Classification of Satellite Imagery for Environmental Exposure Assessment in Cancer Epidemiology, January 14, 2008, Ann Arbor MI.
87. Pickle LW: Combining geographic, visualization and statistical tools for a more complete analysis of public health data. Seminar for The Pennsylvania State University Department of Public Health Sciences, Hershey, PA, February 6, 2008.
88. Pickle LW: Cancer atlases: Pretty maps or public health tools? The Pennsylvania State University Department of Geography Coffee Hour talk, April 11, 2008.

CONTRIBUTED PRESENTATIONS

1. Pickle, LW and Rohde, CA: Support intervals for the odds ratio. Joint American Statistical Association/Biometric Society Spring Meeting, Chapel Hill, North Carolina, April 20, 1977.
2. Pickle, LW: A comparison of several logistic methods of multiple risk factor parameter estimation from retrospective data. Joint American Statistical Association/Biometric Society Annual Meeting, San Diego, California, August 16, 1978.
3. Pickle, LW and Mason, TJ: Geographic and temporal patterns of stomach cancer mortality. Biometric Society Spring Meeting, San Antonio, Texas, March 16, 1982.
4. Pickle, LW: L-estimators for the summary odds ratio in case-control studies. Biometric Society Spring Meeting, Orlando, Florida, March 12, 1984.
5. Pickle, LW, McCormick, GP: Estimation of the variance matrix for maximum likelihood parameters by quasi-Newton methods. Symposium on the Interface: Computer Science and Statistics. Reston, VA, April 21, 1988.
6. Pickle, LW: Measuring the geographic dispersion of mortality rates by the interquartile range. Symposium on the Interface: Computer Science and Statistics. E. Lansing, MI, May 18, 1990.
7. Pickle, LW, Cottler-Fox, M: Statistical methods for the analysis of repeated measurements of serum immunoglobulin levels. Intravenous Gamma Globulin: Current role in bone marrow transplant, malignancy, and immune hematologic disorders, Scottsdale, AZ, October 10-13, 1990.
8. Pickle, LW, Coughlin S: Logistic modeling of interobserver agreement. Society for Epidemiologic Research, Buffalo, NY, June 11-14, 1991.
9. Pickle, LW: Effects of the choice of age-adjustment method on maps of death rates. American Statistical Association Annual Meeting, Boston, MA, August 10, 1992.
10. Pickle LW, Kerwin J, Croner CM, Herrmann D, White AA: The impact of statistical graphic design on interpretation of disease rate maps. American Statistical Association Annual Meeting, San Francisco, CA, August 10, 1993.
11. Pickle LW, Mungiole M: A comparison of variance estimators for the directly age-adjusted rate. Biometrics (ENAR) Meeting, Cleveland, OH, April 10, 1994.
12. Mungiole M, Pickle LW: A comparison of variance estimators for the directly age-adjusted rate. American Statistical Association Annual Meeting, Toronto, August 8, 1994.
13. Pickle LW: The effect of graphic design on the perception and memorability of statistical maps. The Third Practical Aspects of Memory Conference. University of Maryland, August 2, 1994.

14. Pickle LW, Mungiole M, Jones G, White AA: Design of the new NCHS mortality atlas. Biometrics Section, American Statistical Association Annual Meeting, Orlando, FL, August 15, 1995.
15. Pickle LW, Mungiole M, Jones G, White AA: Analysis of mortality data by mixed effects models. The Biometric Society, ENAR meeting, Richmond, VA, March 18, 1996.
16. Pickle LW, Mungiole M, Jones G, White AA: Analysis of mortality data by mixed effects models. Biometrics Section, American Statistical Association Annual Meeting, Chicago, IL, Aug. 6, 1996.
17. Pickle LW, Mungiole M, Jones G, White AA: Analysis of mortality data by mixed effects models. Modelling Longitudinal and Spatially Correlated Data: Methods, Applications, and Future Directions. Nantucket, MA, October 16, 1996.
18. Pickle LW, Mungiole M, Jones G, White AA: Analysis of mortality data by mixed effects models. Biometrics meeting, Memphis, TN, March 24, 1997.
19. Pickle LW, Mungiole M, Jones G, White AA: The new NCHS Atlas of United States Mortality (poster). Society for Epidemiologic Research, Edmonton, Alberta, Canada, June 13, 1997. Won 3rd place in poster contest.
20. Pickle LW, Cubbin C: Exploring spatio-temporal patterns of mortality using mixed effects models. Biometrics meeting, Pittsburgh, PA, March 30, 1998; American Statistical Association Annual Meeting, Dallas, TX, Aug 11, 1998.
21. Pickle LW, Herrmann DJ: Cognitive aspects of statistical map design: II. Specific map elements. International Health Geographics Conference, Baltimore, MD, October 17, 1998.
22. Pickle LW, Feuer EJ, Edwards BK: Predicting cancer incidence in non-SEER counties. Biometrics meeting, Chicago, IL, March 20, 2000; North American Association of Central Cancer Registries, New Orleans, LA, April 19-20, 2000.
23. Pickle LW, Heineman EF, Ward MH, Bell BS, Grauman DJ, Boscoe F, Nuckols JR, Gumpertz M. Geographic-based research and applications at the National Cancer Institute (poster). GIScience 2002, Sept. 26, 2002, Boulder, CO.
24. Pickle LW, Schabenberger O, Stephens A. Robust estimation of spatial autocorrelation in a spatio-temporal cancer prediction model. Symposium on the Interface: Computer Science and Statistics. May 26, 2006, Pasadena CA.
25. Pickle LW. Prediction of State Cancer Case Counts and Rates by Hierarchical Spatio-Temporal Models. Joint Statistical Meetings, Aug. 10, 2006, Seattle, WA.