#### **CURRICULUM VITAE**

### **STEVEN BENNETT WING**

## ADDRESS

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### **EDUCATION**

| University of North Carolina       | Ph.D. in Epidemiology   |
|------------------------------------|-------------------------|
| Chapel Hill, NC                    | 1983                    |
| Duke University                    | M.A. in Sociology       |
| Durham, NC                         | 1980                    |
| Vassar College<br>Poughkeepsie, NY | B.A. in Psychology 1975 |

### **PROFESSIONAL EXPERIENCE**

| 1995-   | Associate Professor, Department of Epidemiology, University of North Carolina,<br>Chapel Hill.        |
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| 1993    | Visiting Professor, Department of Preventive Medicine, Federal University of Bahia, Salvador, Brazil. |
| 1991-95 | Assistant Professor, Department of Epidemiology, University of North Carolina,<br>Chapel Hill.        |
| 1990    | Visiting Professor, Faculty of Theoretical Medicine, University of Ulm, Germany.                      |
| 1985-91 | Research Assistant Professor, Department of Epidemiology, University of North Carolina.               |
| 1983-85 | Post-doctoral Fellow, Department of Epidemiology, University of North Carolina,<br>Chapel Hill.       |

## FELLOWSHIPS AND HONORS

- 2014 John E. Larsh, Jr. Award for Mentorship, University of North Carolina School of Public Health
- 2014 Self-Determination Award, Black Workers for Justice
- 2011 Homer N. Calver Award, Environment Section, American Public Health Association
- 2009 International Society for Environmental Epidemiology Research Integrity Award
- 2004 Bernard G. Greenberg Alumni Endowment Award for Outstanding Teaching, Service and Practice, University of North Carolina School of Public Health
- 2003 Certificate of Honor, Alliance for Nuclear Accountability
- 1997 A Man Called Mathew Award, Concerned Citizens of Tillery and Land Loss Fund
- 1993 Brazilian National Research Council Visiting Professor Fellowship
- 1983-85 National Heart, Lung and Blood Institute Post-doctoral Traineeship
- 1983 Delta Omega, National Honorary Public Health Society
- 1981-83 National Heart, Lung and Blood Institute Pre-doctoral Traineeship
- 1980-81 United States Public Health Service Pre-doctoral Traineeship
- 1978-80 National Institute for General Medical Sciences Pre-doctoral Traineeship

PUBLICATIONS (\*indicates first author was an advisee when the work was conducted)

### Book

Quigley D, Lowman A, Wing S (eds). Tortured Science: Health Studies, Ethics, and Nuclear Weapons in the United States. Amityville, NY: Baywood Press, 2012.

### **Book Chapters**

Wing S. Environmental injustice connects local food environments with global food production. In: Morland K (ed.) Local Food Environments: Food Access in America. Boca Raton, FL: Taylor and Francis, 2014 (forthcoming). Wing S. Limits of Epidemiology. In: Brown P (ed.) Perspectives in Medical Sociology (4<sup>th</sup> edition). Long Grove, IL: Waveland Press, 2008. (from *Medicine and Global Survival*, 1994)

Morland K, Wing S. Food justice and health in communities of color. In: Bullard R (ed.) *Growing Smarter: Achieving Livable Communities, Environmental Justice, and Regional Equity.* Cambridge, MA: MIT Press, 2007.

Wing S. Environmental justice, science and public health. In: Goehl TJ (ed.) *Essays on the Future of Environmental Health Research: A Tribute to Dr. Kenneth Olden*. Research Triangle Park, NC: National Institue of Environmental Health Sciences, 2005.

Wing S. Social responsibility and research ethics in community driven studies of industrialized hog production. In: Brugge D, and Hynes HP (eds.) *Community Collaborative Research in Environmental Health: Studies in Science, Advocacy and Ethics*. Oxon, UK: Ashgate, 2005. (from *Envrionmental Health Perspectives*, 2002)

Wing, S. Whose epidemiology, whose health? In: Navarro V, Muntaner C (eds.) *Political and Economic Determinants of Population Health and Well-Being*. Amityville, NY: Baywood, 2004. (from *International Journal of Health Services*, 1998)

\*Farquhar S, Wing S. Methodological and ethical considerations in community-driven environmental justice research: Two case studies from rural North Carolina. In: Minkler M, and Wallerstein N (eds.) *Community Based Participatory Research for Health*. Jossey-Bass, 2002.

Loomis D, Wing S. Theories of causation. In: Thomas JC and Weber DJ (eds.) *Epidemiologic Methods for the Study of Infectious Diseases*. New York: Oxford University Press, 2001.

Wing S. Limits of epidemiology. In: Kroll-Smith S, Brown P, Gunter VJ (eds.) *Illness and the Environment: A Reader in Contested Medicine*, New York: NY University Press, 2000. (from *Medicine and Global Survival*, 1994)

Richardson D, Wing S. Evidence of increasing sensitivity to radiation at older ages among workers at Oak Ridge National Laboratory. In: Schmitz-Feuerhake I, Schmidt M (eds.), *Radiation Exposures by Nuclear Facilities: Evidence of the Impact on Health*, Berlin: Gesellschaft für Strahlenschultz, 1998.

Wing S, Richardson D, Armstrong D, Crawford-Brown D. A re-analysis of cancer incidence near the Three Mile Island Nuclear Plant. In: Schmitz-Feuerhake I, Schmidt M (eds.), *Radiation Exposures by Nuclear Facilities: Evidence of the Impact on Health*, Berlin: Gesellschaft für Strahlenschultz, 1998.

Viel JF, Wing S, Hoffmann W. Environmental epidemiology, public health advocacy, and policy. In: Lawson A, Biggeri A, Boehning D, Lesaffre E, Viel JF, Bertollini R (eds.), *Disease Mapping and Risk Assessment for Public Health*, Chichester, England: Wiley & Sons, 1998.

Pearce NE, Matos E, Koivusalo M, Wing S. Industrialization and Health. In: Pearce NE, Matos E, Vainio H, Boffetta P, Kogevinas M (eds), *Occupational Cancer in Developing Countries*, Lyon: International Agency for Research on Cancer, 1994.

Wing S. Basics of radiation epidemiology. In: Burdman GM, Kaplan L (eds.), *Radiation Health Effects*, Seattle: Hanford Health Information Network, 1994.

Wing S. A review of recent findings on radiation and mortality at Oak Ridge National Laboratory. In Lengfelder E, Wendhausen H (eds.), *Neue Bewertung des Strahlenrisikos*, Proceedings of the International Society of Radiological Protection, pp 217-228, Munich: Medizin Verlag, 1993.

Kotelchuck M, Dodds J, Wing S and Kotch J. Societal trends that affect nutrition status and services for the maternal and child health populations. In Sharhaugh, C (ed) *Call to Action: Better Nutrition for Mothers, Children and Families.* Washington, DC: National Center for Education in Maternal and Child Health, 1991.

Wing S. Trends in society and public health: Looking towards the twenty-first century. In Kaufman M. (ed.) *Moving Towards the 21st Century: Empowering Nutritionists for Leadership in Public Health*. Proceedings of the Continuing Education Conference for the Association of State and Territorial Public Health Nutrition Directors and Association of Faculties of Graduate Programs in Public Health Nutrition, pp. 23-34, Chapel Hill, NC: Department of Nutrition, School of Public Health, University of North Carolina, 1989.

Tennis P, Wing S and Tyroler HA. Geographic variation among state economic areas in levels and declines of ischemic heart disease mortality in women of the U.S. Southeast, 1968-1978. In Eaker E.E. et al. (eds.) *Coronary Heart Disease in Women*, NY: Haymarket Doyma, 1987.

Refereed papers/articles (\*indicates first author was an advisee when the work was conducted)

\*Guidry VT, Lowman A, Hall D, Baron D, Wing S. Challenges and benefits of conducting environmental justice research in a school setting. New Solutions, forthcoming 2014.

\*Schinasi L, Wing S, MacDonald PDM, Richardson DB, Stewart JR, Augustino KL, Nobles DL, Ramsey KM. Medical and household characteristics associated with methicillin resistant staphylococcus aureus nasal carriage among patients admitted to a rural tertiary care hospital. PLoS ONE 8(8): e73595, 2013. doi:10.1371/journal.pone.0073595, 2013, PMID: 23991200

\*Rinsky JL, Nadimpalli M, Wing S, Hall D, Baron D, Price LB, Larsen J, Stegger M, Stewart J, Heaney CD. Livestock-associated methicillin and multidrug resistant *Staphylococcus aureus* is present among industrial, not antibiotic-free livestock operation workers in North Carolina. PLoS ONE, 8(7): e67641, 2013. doi:10.1371/journal.pone.0067641, 2013. PMID: 23844044

Lowman A, McDonald MA, Wing S, Muhammad N. Land application of treated sewage sludge: Community health and environmental justice. Environmental Health Perspectives, 121:537-542, 2013. <u>http://dx.doi.org/10.1289/ehp.1205470</u> PMID: 23562940

Richardson DB, Wing S, Keil A, Wolf S. Mortality among workers at Oak Ridge National Laboratory. Am J Ind Med. 2013. PMID: 23460075

\*Heaney CD, Wing S, Wilson SM, Campbell RL, Caldwell D, Hopkins B, O'Shea S, Yeatts K. Public infrastructure disparities and the microbiological and chemical safety of drinking and surface water supplies in a community bordering a landfill. Journal of Environmental Health, 2013. PMID: 23858663

Hamra G, Richardson D, Maclehose R, Wing S. Integrating informative priors from experimental research with Bayesian methods: an example from radiation epidemiology. Epidemiology, 24:90-5, 2013. PMID: 23222512

Richardson DB, Wing S, Cole SR. Missing doses in the Life Span Study of Japanese atomic bomb survivors. American Journal of Epidemiology, 177:562-8, 2013. PMID: 23429722 (and response to Ozasa et al., 177:574-5. PMID: 23429721).

Wing S., Horton RA, Rose KM. Air pollution from industrial swine operations and blood pressure of neighboring residents. Environmental Health Perspectives. 121:92-96, 2013. PMID: 23111006

\*Heaney CD, Sams E, Dufour AP, Brenner KP, Haugland RA, Chern E, Wing S, Marshall S, Love DC, Serre M, Noble R, Wade TJ. Fecal indicators in sand, sand contact, and risk of enteric illness among beachgoers. Epidemiology. 23(1):95-106, 2012. PMID: 22157306

\*Heaney CD, Wing S, Campbell RL, Caldwell D, Hopkins B, Richardson D, Yeatts K. Relation between malodor, ambient hydrogen sulfide, and health in a community bordering a landfill. Environmental Research. 111:847-852, 2011.

Richardson D, Wing S. Evidence of confounding by smoking of associations between radiation and lung cancer mortality among workers at the Savannah River Site. American Journal of Industrial Medicine. 54(6):421-7, 2011.

\*Keil A, Wing S, Lowman A. Suitability of public records for evaluating health effects of treated sewage sludge in North Carolina. North Carolina Medical Journal, 72:98-104, 2011.

Wing S, Richardson DB, Hoffmann W. Cancer risks near nuclear facilities: The importance of research design and explicit study hypotheses. Environmental Health Perspectives, 119:417-21, 2011.

\*Stingone J, Wing S. Poultry-litter incineration as a source of energy: Reviewing the potential for impacts on environmental health and justice. New Solutions, 21:27-42, 2011.

\*Schinasi L, Horton RA, Guidry VT, Wing S, Marshall SW, Morland KB. Air pollution, lung function, and physical symptoms in communities near concentrated swine-feeding operations. Epidemiology, 20:208-15, 2011.

Lowman A, Wing S, Crump C, MacDonald P, Heaney C, Aitken M. Public officials' perspectives on tracking and investigating symptoms reported near sewage sludge land application sites. Journal of Environmental Health, 73(6):14-20, 2011.

Angelon-Gaetz K, Richardson DB, Wing S. Inequalities in the nuclear age: Impact of race and gender on radiation exposure at the Savannah River Site (1951-1999). New Solutions. 20:195-210, 2010.

Wing S. Ethics for environmental health research: The case of the U.S. nuclear weapons industry. New Solutions. 20:179-187, 2010.

\*Heaney CD, Sams E, Wing S, Marshall S, Brenner K, Dufour AP, Wade TJ. Contact with beach sand among beachgoers and risk of illness. American Journal of Epidemiology. 170:164-72, 2009.

\*Horton RA, Wing S, Marshall SW, Brownley KA. Odor as a trigger of stress and negaive mood in neighbors of industrial hog operations. American Journal of Public Health. 99:S610-615, 2009.

\*Schinasi L, Horton RA, Wing S. Data completeness and quality in a community-based and participatory epidemiologic study. Progress in Community Health Partnerships. 3:179-190, 2009.

Richardson DB, Sugiyama H, Wing S, Sakata R, Grant E, Shimizu Y, Nishi N, Geyer S, Soda M, Suyama A, Kasagi F, Kodama K. Positive associations between ionizing radiation and lymphoma mortality among men. American Journal of Epidemiology. 169(8):969-76, 2009.

Wing S, Horton R, Marshall S, Thu K, Tajik M, Schiffman S. Air pollution and odor in communities near industrial swine operations. Environmental Health Perspectives, 116:1362-1368, 2008.

Wing S, Horton R, Muhammad N, Grant G, Tajik M, Thu K. Integrating epidemiology, education, and organizing for environmental justice: Community health effects of industrial hog operations. American Journal of Public Health, 98:1390-1397, 2008.

\*Tajik M, Muhammad N, Lowman A, Thu K, Wing S, Grant G. Impact of odor from industrial hog operations on daily living activities. New Solutions: A Journal of Occupational and Environmental Health Policy. 18:193-205, 2008.

Todd L, Puangthongthub S, Mottus K, Mihlan G, Wing S. Health survey of workers exposed to mixed solvent and ergonomic hazards in footwear and equipment factory workers in Thailand. Annals of Occupational Hygiene. 52:195-205, 2008.

\*Norton J, Wing S, Lipscomb HJ, Kaufman JS, Marshall SW, Cravey AJ. Race, wealth, and solid waste facilities in North Carolina. Environmental Health Perspectives. 115:1344-1350, 2007.

Richardson DB, Wing S. Leukemia mortality among workers at the Savannah River Site. American Journal of Epidemiology, 166:1015-1022, 2007.

Richardson DB, Wing S, Wolf S. Mortality among workers at the Savannah River Site. American Journal of Industrial Medicine. 50:881-891, 2007.

Resnik DB, Wing S. What can we learn from CHEERS? American Journal of Public Health. 97:414-418, 2007.

Donham K, Wing S, Osterberg D, Flora J, Hodne C, Thu K. Community health and socioeconomic issues surrounding concentrated animal feeding operations. Environmental Health Perspectives. 115:317-320, 2007.

Griffith M, Tajik M, Wing S. Patterns of agricultural pesticide use in relation to socioeconomic characteristics of the population in the rural US South. International Journal of Health Services. 37:259-277, 2007.

Richardson DB, Wing S, Daniels RD. Evaluation of external radiation dosimetry records at the Savannah River Site, 1951-1989. Journal of Exposure Science and Environmental Epidemiology. 17:13-24, 2007.

\*Mirabelli MC, Wing S, Marshall SW, Wilcosky TC. Asthma symptoms among adolescents attending public schools located near confined swine feeding operations. Pediatrics, 118:e66-e75, 2006.

\*Mirabelli MC, Wing S. Proximity to pulp and paper mills and wheezing symptoms among adolescents in North Carolina. Environmental Research, 102: 96-100, 2006.

Richardson D, Wing S. Lung cancer mortality among workers at a nuclear materials fabrication plant. American Journal of Industrial Medicine, 49:102-111, 2006.

Morland K, Diez Roux A, Wing S. Supermarkets, Other Food Stores and Obesity: the Atherosclerosis Risk in Communities Study. *American Journal of Preventive Medicine*, 30:333-339, 2006.

\*Mirabelli MC, Wing S, Marshall SW, Wilcosky TC. Race, poverty, and potential exposure of middle school students to air emissions from confined swine feeding operations. *Environmental Health Perspectives*, 114:591-596, 2006.

Lipscomb HJ, Loomis D, McDonald MA, Argue R, Wing S. A conceptual model of work and health disparities in the United States. International Journal of Health Services, 36:25-50, 2006.

Lipscomb HJ, Argue R, McDonald MA, Dement JA, Epling CA, James T, Wing S, Loomis D. Exploration of work and health disparities among black women employed in poultry processing in the rural South. *Environmental Health Perspectives*, 113:1833-1840, 2005

Richardson DB, Wing S, Schroeder J, Schmitz-Feuerhake I, Hoffmann W. Ionizing radiation and chronic lymphocytic leukemia. *Environmental Health Perspectives*, 113:1-5 2005.

Wing S, Richardson D. Age at exposure to ionising radiation and cancer mortality among Hanford workers: follow up through 1994. *Occupational and Environmental Medicine*, 62:465-472, 2005.

\*Avery R, Wing S, Marshall S, Schiffman S. Perceived odor from industrial hog operations and suppression of mucosal immune function in nearby residents. *Archives of Environmental Health*, 59:101-108, 2004.

Richardson D, Wing S, Steenland K, McKelvey W. Time-related aspects of the healthy worker survivor effect. *Annals of Epidemiology*, 14:633-639, 2004.

Richardson DB, Wing S, Lorey F, Hertz-Piccioto I. Adult hemoglobin levels at birth and risk of sudden infant death syndrome. *Archives of Pediatric and Adoloscent Medicine*, 158:366-371, 2004.

Massing MW, Rosamond WD, Wing SB, Suchindran CM, Kaplan BH, Tyroler HA. Income, income inequality, and cardiovascular disease mortality: Relations among county populations of the United States, 1985 to 1994. *Southern Medical Journal*, 97:475-84, 2004.

Wing S, Richardson D, Wolf S, Mihlan G. Plutonium-related work and cause-specific mortality at the United States Department of Energy Hanford Site. *American Journal of Industrial Medicine*, 24:153-164, 2004.

Wing S. Objectivity and ethics in environmental health science. *Environmental Health Perspectives*, 111:1809-1818, 2003.

\*Morland K, Wing S, Diez Roux A. The contextual effect of the local food environment on residents' diets: the Atherosclerosis Risk in Communities Study. *American Journal of Public Health*, 92:1761-1767, 2002.

\*Wilson S, Howell F, Wing S, Sobsey M. Environmental injustice and the Mississippi hog industry. *Environmental Health Perspectives*, 110 (Supplement 2):195-201, 2002.

Wing, S. Social responsibility and research ethics in community driven studies of industrialized hog production. *Environmental Health Perspectives*, 110:437-444, 2002.

Wing S, Freedman S, Band L. The potential impact of flooding on confined animal feeding operations in eastern North Carolina. *Environmental Health Perspectives*, 110:387-391, 2002.

\*Morland K, Wing S, Diez Roux A, Poole C. Neighborhood characteristics associated with the location of food stores and food service places. *American Journal of Preventive Medicine*, 22:23-29, 2002.

Richardson D, Wing S, Hoffmann W. Cancer risk from low level ionizing radiation: the role of age at exposure. *Occupational Medicine State of the Art Reviews*, 16:191-218, 2001.

Wing S. The influence of age at exposure to radiation on cancer risk in humans (extended abstract). *Radiation Research*, 154:732-733, 2000.

Cole D, Todd L, Wing S. Concentrated swine feeding operations and public health: A review of occupational and community health effects. *Environmental Health Perspectives*, 108:685-699, 2000.

Wing S, Richardson D, Wolf S, Mihlan G, Crawford-Brown D, Wood J. A case-control study of multiple myeloma at four nuclear facilities. *Annals of Epidemiology*, 10:144-153, 2000.

\*St. George DM, Wing SB, Lewis DL. Geographic and temporal patterns of toxic industrial chemicals released in North Carolina, 1988-1994. *North Carolina Medical Journal*, 61:396-400, 2000.

Richardson D, Wing S, Watson J, Wolf S. Evaluation of annual external radiation doses at or near minimum detection levels of dosimeters at the Hanford nuclear facility. *Journal of Exposure Analysis and Environmental Epidemiology*, 10:27-35, 2000.

Wing S, Cole D, Grant G. Environmental injustice in North Carolina's hog industry. *Environmental Health Perspectives*, 108:225-231, 2000.

Wing S, Wolf S. Intensive livestock operations, health, and quality of life among eastern North Carolina residents. *Environmental Health Perspectives*, 108:233-238, 2000.

Santana VS, Loomis D, Wing S. Bahia-Carolina program in environmental and occupational health: A North-South partnership for workplace and environmental justice. *International Journal of Occupational and Environmental Health*, 5:218-222, 1999.

\*Richardson DB, Wing S. Greater sensitivity to radiation exposures at older ages among workers at Oak Ridge National Laboratory: Follow-up through 1990. *International Journal of Epidemiology*, 28:428-436, 1999.

\*Richardson D, Wing S. Radiation and mortality among workers at Oak Ridge National Laboratory: Positive associations for doses received at older ages. *Environmental Health Perspectives*, 107:649-656, 1999.

Wing S, Richardson D, Stewart A. The relevance of occupational epidemiology to radiation protection standards. *New Solutions: A Journal of Occupational and Environmental Health Policy*, 9:133-151, 1999.

Richardson D, Wing S, Watson J, Wolf S. Missing annual external radiation dosimetry data among Hanford workers. *Journal of Exposure Analysis and Environmental Epidemiology*, 9:575-585, 1999.

\*Richardson D, Wing S. Methods for investigating age differences in the effects of prolonged exposures. *American Journal of Industrial Medicine*, 33:123-130, 1998.

Wing S. Whose epidemiology, whose health? *International Journal of Health Services*, 28:241-252, 1998.

Wing S, Richardson D, Armstrong D, Crawford-Brown D. A reevaluation of cancer incidence near the Three Mile Island nuclear plant: The collision of evidence and assumptions. *Environmental Health Perspectives*, 105:52-57, 1997.

Frome EL, Cragle DL, Watkins JP, Wing S, Shy CM, Tankersley WG, West CM. A mortality study of employees of the nuclear industry in Oak Ridge, Tennessee. *Radiation Research*, 148:64-80, 1997.

Wood J, Richardson D, Wing S. A simple program to create exact person-time data in cohort analyses. *International Journal of Epidemiology*, 26:395-399, 1997.

Barnett E, Strogatz D, Armstrong D, Wing S. Urbanization and coronary heart disease mortality among African Americans in the US South. *Journal of Epidemiology and Community Health*, 50:252-257, 1996.

\*Armstrong D, Wing S, Tyroler HA. Race differences in estimates of sudden coronary heart disease mortality, 1980-88: The impact of ill-defined death. *Journal of Clinical Epidemiology*, 49:1247-51, 1996.

Wing S, Grant G, Green M, Stewart C. Community based collaboration for environmental justice: South-east Halifax environmental reawakening. *Environment and Urbanization*, 8:129-140, 1996.

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* 26:755-760, 1995.

\*Armstrong DL, Wing SB, Tyroler HA. United States mortality from ill-defined causes, 1968-1988: Potential effects on heart disease mortality trends. *International Journal of Epidemiology*, 24:522-527, 1995.

Wing S, West CM, Wood J, Tankersley W. Recording of external radiation exposures at Oak Ridge National Laboratory: Implications for epidemiological studies. *Journal of Exposure Assessment and Environmental Epidemiology*, 4:83-93, 1994.

Wing S. Limits of epidemiology. *Medicine and Global Survival*. 1:74-86, 1994.

\*Millard P, Cegielski JP, Wing S, Silver A. Tuberculosis incidence trends and changes in incidence trends in North and South Carolina, 1980-1992. *Journal of Rural Health* 10:226-236, 1994.

Wing S, Shy CM, Wood JL, Wolf S, Cragle DL, Tankersley W, Frome EL. Job factors, radiation and cancer mortality at Oak Ridge National Laboratory: Follow-up through 1984. *American Journal of Industrial Medicine* 23:265-279, 1993.

Tyroler HA, Wing S, Knowles M. Increasing inequality in CHD mortality in relation to educational achievement profile of places of residence, US. 1962-87. *Annals of Epidemiology* 3:S51-S54, 1993.

Wing S, Barnett E, Casper M, Tyroler HA. Geographic and socioeconomic variation in the onset of decline of coronary heart disease mortality in white women. *American Journal of Public Health* 82:204-209, 1992.

\*Carter L, Walton S, Knowles M, Wing S, Tyroler HA. Social inequality of stroke mortality among US Black populations, 1968-1987. *Ethnicity and Disease* 2:343-350, 1992.

\*Casper M, Wing S, Strogatz D, Davis CE, Tyroler HA. Antihypertensive pharmacotherapy and U.S. declines in stroke mortality, 1962 to 1980. *American Journal of Public Health* 82:1600-1606, 1992.

Wing S, Shy C, Wood J, Wolf S, Cragle D and Frome E. Mortality among workers at Oak Ridge National Laboratory: Evidence of radiation effects in follow-up through 1984. *Journal of the American Medical Association* 265:1397-1402, 1991.

Manton K, Stallard E and Wing S. Analyses of Black and White differentials in the age trajectory of mortality in two closed cohort studies. *Statistics in Medicine* 10:1043-1059, 1991.

\*Casper M, Wing S and Strogatz D. Changes in the magnitude of Black-White differences in stroke mortality by community occupational structure. *Journal of Epidemiology and Community Health* 45:302-306, 1991.

Amandus HE, Shy C, Wing S, Blair A, Heineman EF. Silicosis and lung cancer in North Carolina dusty trades workers. *American Journal of Industrial Medicine* 20:57-70, 1991.

Sorel JE, Heiss G, Tyroler HA, Davis WB, Wing SB, Ragland DR. Black-White differences in blood pressure among participants in NHANESII: The contribution of blood lead. *Epidemiology* 2:348-52, 1991.

Wing S, Casper M, Davis WB, Hayes C, Riggan W and Tyroler H.A. Trends in the geographic inequality of cardiovascular disease mortality in the United States, 1962-1982. *Social Science and Medicine* 30:261-266, 1990.

Loomis D, Wing S. Is molecular epidemiology a germ theory for the late twentieth century? *International Journal of Epidemiology* 19(1):1-3, 1990.

Wing S, Casper M, Riggan W, Hayes C and Tyroler HA. Socioenvironmental characteristics associated with the onset of decline of ischemic heart disease mortality in the United States. *American Journal of Public Health*, 78:923-26, 1988.

Wing S. Social inequalities in the decline of coronary mortality (editorial). *American Journal of Public Health* 78:1415-16, 1988.

Wing S, Casper M, Davis WB, Pellom A, Riggan W and Tyroler HA. Stroke mortality maps: United States whites aged 35-74, 1962-1982. *Stroke* 19:1507-1513, 1988.

Wilcosky T and Wing S. The healthy worker effect: Selection of workers and work forces. *Scandinavian Journal of Work, Environment and Health* 13:70-72, 1987.

James SA, Strogatz DS, Wing SB and Ramsey DL. Socioeconomic status, John Henryism, and hypertension in blacks and whites. *American Journal of Epidemiology*, 126:664-73, 1987.

Wing S, Dargent P, Casper M, Tyroler HA, Riggan W and Hayes CG. The changing association of community occupational structure and ischemic heart disease mortality in the United States. *The Lancet*, ii:1067-70, 1987.

Logue EE and Wing S. Life-table methods for detecting age-risk factor interactions in long-term follow-up studies. *Journal of Chronic Diseases*, 39:709-717, 1986.

Wing S, Hayes C, Heiss G, John E, Knowles M, Riggan W and Tyroler HA. Geographic variation in the onset of decline of ischemic heart disease mortality in the U.S. *American Journal of Public Health*, 76:1404-1408, 1986.

Wing S, Manton KG, Stallard E, Hames CG and Tyroler HA. The black/white mortality crossover: Investigation in a community-based study. *Journal of Gerontology* 40:78-84, 1985.

Wing S, Tyroler HA and Manton KG. The participant effect: Mortality in a community-based study compared to vital statistics. *Journal of Chronic Diseases* 38:135-144, 1985.

Tyroler HA, Knowles M, Wing S, Logue EE, Davis CE, Heiss G, Heyden S and Hames CG. Ischemic heart disease risk factors and twenty-year mortality in middle-age Evans County black males. *American Heart Journal* 108:738-746 (supplement), 1984.

Wing S. The role of medicine in the decline of hypertension-related mortality. *International Journal of Health Services* 14:649-666, 1984.

Wing S and Manton KG. The contribution of hypertension to mortality in the US: 1968, 1977. *American Journal of Public Health* 73:140-144, 1983.

Wing S, Aubert R, Hansen J, Hames CG, Slome C and Tyroler HA. Isolated systolic hypertension in Evans Co. I. Prevalence and screening considerations. *Journal of Chronic Diseases* 35:735-742, 1982.

Wing S and Manton KG. A multiple cause of death analysis of hypertension-related mortality in North Carolina, 1968-1977. *American Journal of Public Health* 71:823-830, 1981.

Manton KG, Poss SS and Wing S. The black/white mortality crossover: Investigation from the perspective of the components of aging. *The Gerontologist*, 19:291-300, 1979.

## Other unrefereed works, including presentations and book reviews

## Letters, invited commentaries and book review in peer-reviewed journals

Campbell RL, Caldwell D, Hopkins B, Heaney CD, Wing S, Wilson SM, O'Shea S, Yeatts K. Integrating research and community organizing to address water and sanitation concerns in a community bordering a landfill. J Environ Health. 2013 Jun;75(10):48-50. PMID: 23858665

Richardson DB, Wing S. Re: solid cancer incidence in atomic bomb survivors exposed in utero or as young children. J Natl Cancer Inst. 100:1482-3, 2008.

Richardson D, Wing S. Are A-bomb survivor studies an appropriate basis for nuclear worker compensation? *Environmental Health Perspectives*, 111:A748, 2003.

Richardson D, Wing S. Studies of radiation-cancer associations among workers at Oak Ridge National Laboratory. *Technology*, 9:141-143, 2003.

Wing S, Richardson D. Use of A-bomb survivor studies as a basis for nuclear worker compensation. *Environmental Health Perspectives*, 110:A739, 2002.

Wing, S. (Review) Challenging Inequalities in Health: From Ethics to Action. *New England Journal of Medicine*, 345:1857-1858, 2001.

Wing S, Richardson D, Armstrong D. Reply to comments on "A Reevaluation of Cancer Incidence Near the Three Mile Island." *Environmental Health Perspectives*, 105:266-268, 1997.

Wing S, Richardson D, Armstrong D. Response: Science, public health and objectivity: Research into the accident at Three Mile Island. *Environmental Health Perspectives*, 105:567-570, 1997.

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Casper M, Wing S, Strogatz D, Davis CE, Tyroler HA. Stroke mortality trends and antihypertensive drug use (letter in reply to Smith and Pinckney). *American Journal of Public Health* 83:1643, 1993.

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Wing S, Shy CM, Wood JL, Wolf S, Cragle D, Frome EL. Mortality of workers at the Oak Ridge National Laboratory, (letter in reply to letter by Gilbert and editorial by Prichard). *Health Physics* 62:261-264, 1992.

Wing S, Shy C. Public health effects of occupational and environmental radiation exposure (letter in reply to letters by Brown; Greenspan; and Marshall and Baker; and editorial by Hendee). *Journal of the American Medical Association* 266:653-4, 1991.

Monographs, non-refereed journal articles, and other published works

Wing S. When research turns to sludge. Academe 96(6):22-24, 2010.

Wing S. Raising animals and rising threats. Raleigh News & Observer, Raleigh, NC, June 24, 2009.

Wing S. Justica ambiental, ciencia y salud pública. *Salud y Medio Ambiente*, 37:35-45, 2009. (translation of 2005 article from *Essays on the Future of Environmental Health Research*)

Aitken M, Crump C, Heaney C, Lowman A, McDonald P, Wing S. Epidemiologic Surveillance and Investigation of Symptoms of Illness Reported By Neighbors of Biosolids Land Application Sites. Report to Water Environment Research Foundation, 2008.

Wing S, Warren C. Big money and public health. News & Observer, Raleigh, NC, March 7, 2008.

Wing S, Schinasi L. Public health preparedness: Social control or social justice? South Atlantic Quarterly, 106:789-804, 2007.

Grant G, Wing S. The North Carolina Hog Roundtable. Race, Poverty & the Environment, Winter, 2004, <u>http://www.urbanhabitat.org/node/164</u>.

Wing, S. Community-driven epidemiology and environmental justice: A course at The University of North Carolina. The Networker: Newsletter of the Science and Environmental Health Network 5(5), October, 2000, www.sehn.org.

Richardson D, Wing S, Stewart A. Epidemiologic Studies of the Effects of Exposure to Ionizing Radiation. Ministry of Finance and Energy, Schleswig-Holstein, Germany, 1997.

Wing S, Richardson D. Material Living Conditions and Health in the United States, Canada and Western Europe. Research in Public Health Technical Papers, Series 19, Pan American Health Organization, Washington, DC, 2000.

Wing S, Richardson D. Occupational Health Studies at Los Alamos National Laboratory. In, New Mexico's Right to Know: The Impacts of LANL Operations on Public Health and the Environment, Concerned Citizens for Nuclear Safety, 2002, http://www.nuclearactive.org.

Wing S. Evaluation of the US Agency for Toxic Substances and Disease Registry's Public Health Assessment of Laurence Livermore National Laboratory. Prepared for Tri-Valley CAREs, Western States Legal Foundation and the San Francisco Bay Area Physicians for Social Responsibility under their "Health Consultation on the Impact of Two Major Tritium Accidents at Livermore Lab: An Independent Scientific Analysis," 2002.

## Invited scientific lectures, seminars and testimony

Reification of chance in epidemiology and society. Department of Public Health Sciences Medical University of South Carolina, March 21, 2014.

Epidemiologic studies of radiation releases from nuclear facilities. New York Academy of Medicine, March 11, 2013.

Poverty, health, and industrial hog production. Committee to Advance Science Writing, New Horizons in Science, Raleigh, NC October 28, 2012.

Social and ecological dimensions of the food supply: health inequalities. Exploring the True Costs of Food, Institute of Medicine, April 23-24, 2012

Environmental health and the corporate-government alliance. Homer N. Calver Award Lecture, Environment Section, American Public Health Association annual meeting, Washington, DC, October 31, 2011.

Cancer risks near nuclear facilities: The importance of research design and explicit study hypotheses. National Academy of Sciences Committee on Analysis of Cancer Risks Near Nuclear Facilities, Atlanta, GA, May 23, 2011.

Public health research and the environmental justice movement. Doris Slesinger Lecture, Department of Community and Environmental Sociology and Department of Family Medicine. University of Wisconsin, Madison, March 30, 2011.

Radiation health effects: The case of plutonium. Rocky Mountain Peace and Justice Center and Department of Environmental Studies, Naropa University, Boulder, CO, March 31, 2011.

Air pollution from swine CAFOs and health of neighboring communities. Departmental Seminar, Department of Environmental Health, Johns Hopkins University. December 8, 2010.

The scope of epidemiology. Expert workshop on cancer in Basrah, Iraq. Istanbul, November 17, 2010.

Swine CAFOs, air pollution, and community health. Evaluating the Health Effects to Local Communities of Confined Animal Feeding Operations (CAFOs) Workshop. NC State University, November 11, 2010.

Developing testable hypotheses for cancer risks near nuclear power facilities. Nuclear and Radiation Studies Board, National Academy of Sciences, Washington, DC, April 26, 2010.

What kind of action comes from research? (with Gary Grant). Partnerships for Environmental Public Health Program Meeting, Research Triangle Park, NC, April 26, 2010.

Research and Data Needs for Assessing and Addressing Disproportionate Environmental Health Impacts Among Minority and Disadvantaged Populations. (Panelist) US Environmental Protection Agency, Strengthening Environmental Justice and Decision Making: A Symposium on the Science of Disproportionate Environmental Health Impacts. Washington DC, March 17 -19, 2010

Environment, disasters, and health disparities. Minority Health Conference, University of North Carolina, Chapel Hill, February 27, 2009.

Cancer around nuclear power plants: Collision of evidence and assumptions, déjà vu. Meeting of the Society for Radiation Protection, Virchow Clinic Campus, Medical University of Berlin, September 28, 2008.

Assumptions, evidence, and causal reasoning in radiation epidemiology. Annual meeting of the German Society for Epidemiology, Bielefeld, Germany, September 27, 2008.

Improving environmental health science through community-driven research. University of Texas Medical Branch Sealy Center for Environmental Health and Medicine, Galveston, TX, March 31, 2008 (with Gary Grant).

Integrating Epidemiology with Community Action for Environmental Justice. Department of Environmental Health Sciences, UNC Chapel Hill, March 19, 2008.

Whose science, whose environmental health? Fronteers in Environmental Science Series, National Institute of Environmental Health Sciences, Research Triangle Park, NC, September 14, 2007.

Changing views of the biological effects of low-level ionizing radiation. Royal Society of Medicine, London, International Physicians for Prevention of Nuclear War, October 3, 2007.

Research partnerships for public health and environmental justice. Jensen Lecture, Duke University Department of Sociology, April 7, 2006

Public health preparedness, disease control, and social justice. Rock Ethics Institute, Health as a Human Right Lecture, Pennsylvania State University, October 17, 2005.

Health disparities. American Medical Association – Medical Student Section Region 4 Annual Meeting, Duke University Medical Center, March 5, 2005.

Genes, justice, and racial inequalities in health. 5<sup>th</sup> Annual Minority Health Leadership Summit, School of Public Health, University of Pittsburgh, January 13, 2005.

Quantitative methods in the epidemiology of environmental injustice: Examples from eastern North Carolina. Math Departmental Seminar, East Carolina University, December 1, 2004.

Improving environmental health science through partnerships in communities affected by environmental injustice. The Science of Environmental Justice Working Conference, US Environmental Protection Agency, Boston University, May 25, 2004.

North Carolina swine production, health and environmental justice (with Gary R. Grant). The Science of Environmental Justice Working Conference, US Environmental Protection Agency, Boston University, May 26, 2004.

Environmental injustice in eastern North Carolina: Corporate hogs and guerrilla epidemiology. Department of Epidemiology and Biostatistics seminar, College of Public Health, University of South Florida, December 3, 2003.

Inequality and inequity: the broader causes of health disparities. Panel presentation, Mending the Health Care Divide: Eliminating Disparities in Access for Minority and Low Income Communities. University of North Carolina School of Law, UNC Center for Civil Rights and UNC School of Public Health, Chapel Hill, NC, November 1, 2003.

The "chilling effect" on environmental health research: Industry tactics and institutional disincentives. Conflicted Science: Corporate Influence on Scientific Research and Science-Based Policy, conference sponsored by the Center for Science in the Public Interest's Integrity in Science Project. July 11, 2003 Washington, DC.

Science, objectivity and ethics in environmental health. Dialogues for Improving Research Ethics in Environmental and Public Health (Conference), Brown University, Providence, RI, May 31, 2003.

Methodology and ethics in epidemiology of environmental justice: Industrial hogs and guerrilla epidemiology. Departmental Seminar, Department of Epidemiology, School of Public Health, State University of New York, Albany, NC, April 11, 2003.

Health disparities, research ethics and environmental epidemiology. Epidemiology Branch, National Institute of Environmental Health Sciences, May 13, 2002.

Health impacts, Risks and Response: Nuclear Terrorism in the Triangle, A Public Forum to Address Emergency Planning and Risk Minimization, sponsored by Orange and Chatham County Boards of Commissioners, William Friday Center, Chapel Hill, NC, May 2, 2002.

Bioterrorism preparedness and health disparities, The New War Economy, a teach-in sponsored by the UNC-CH Progressive Faculty Network, Chapel Hill, NC, April 19, 2002.

The role of epidemiology in evaluating releases from nuclear facilities: Insights from the work of Alice Stewart. The Alice Stewart Lecture, 16th Low Level Radiation and Health Conference, Dublin Institute of Technology, Ireland, June 21, 2002.

Health effects of low level radiation, Physicians for Social Responsibility, Los Angeles, March 11, 2002.

Community based environmental health research, Morehouse College and Southeast Community Research Center, Atlanta, GA, November 10, 2001.

Pork production, public health and environmental justice. Department of Environmental Health, University of Cincinnati, Departmental Seminar, May 23, 2001.

Subcommittee on Energy and Environment of the Committee on Science, United States House of Representatives, "Reexamining the Scientific Basis for the Linear No-Threshold Model of Lowdose Radiation," July 18, 2000. Published testimony: Serial No. 106-98, pages 101-115 and 123-138. Government Printing Office, Washington, DC: 2001. Human Health, Sustainable Hog Farming Summit, New Bern, NC, January 11, 2001.

Integrating research, teaching and practice in environmental justice. Departmental Seminar, Department of Sociology and Anthropology, NC State University, December 1, 2000.

Community public health needs and industrial animal production research. American Public Health Association Annual Meeting, Boston, MA, November 14, 2000.

Social inequalities in occupational and environmental health. Brazilian Congress of Epidemiology Annual Meeting, Salvador, Bahia, Brazil, September 1, 2000.

The influence of age at exposure to radiation on cancer risk in humans. American Statistical Association Conference on Radiation and Health, Park City, UT, June 27, 2000.

National Academy of Sciences, Committee on the Biological Effects of Ionizing Radiation (BEIR VII). "The Relevance of Occupational Epidemiology to Radiation Protection Standards," Washington DC, June 13, 2000.

Radiation and Rocky Flats: Risks to workers and the public, Rocky Mountain Peace and Justice Center, Boulder, CO, June 24, 2000.

Public health and intensive hog production in North Carolina. Research Triangle Institute, June 9, 2000.

Low level radiation and health. Brookhaven National Laboratory, June 5, 2000.

Research to action: Getting our work used! Community-Based Research for Environmental Justice: Workshops from the Field 2000 Training and Conference, Rutgers University, Newark, NJ, May 21, 2000.

Health effects of nuclear weapons production, Our Nuclear Future, Conference held prior to the United Nations Disarmament Conference, United Nations Plaza Hotel, New York, NY, April 24, 2000.

US Environmental Protection Agency National Environmental Justice Advisory Committee, Enforcement Subcommittee, "Confined animal feeding operations," Atlanta, GA, May 25, 2000.

The challenge of environmental justice: Science, public health and advocacy, Minority Health Conference, School of Public Health, Chapel Hill, NC, February 18, 2000.

Environmental health effects of intensive livestock operations. Division of Occupational and Environmental Medicine departmental seminar, School of Medicine, Duke University, February 8, 2000.

United States Department of Agriculture Air Quality Task Force. "Health and intensive livestock operations," Research Triangle Park, NC, November 1, 1999.

Environmental injustice in North Carolina's hog industry. Regional Research Institute Colloquium, West Virginia University, Morganton, WV, October 8, 1999.

Community based research and environmental justice, African American Environmental Justice Action Network Conference, Arlington, VA, September 18, 1999.

Agriculture Committee, House of Representatives, North Carolina General Assembly, "Environmental Injustice in North Carolina's Hog Industry, "Raleigh, NC, April 27, 1999.

Intensive livestock operations, health, and quality of life among eastern North Carolina residents. Conference on Public Health Impacts of Intensive Livestock Operations, NC Department of Health and Human Services, Raleigh, NC, July 15, 1999.

Radiation and health, Hanford Downwinders Conference, Pendleton, WA, April, 1999.

Cancer and Three Mile Island, Three Mile Island Alert, Harrisburg, PA, March 26-27, 1999.

Environmental injustice in the North Carolina hog industry. Society of Toxicology Annual Meeting, New Orleans, LA, March 17, 1999. Radiation and health, Livermore City Council, Lawrence Livermore National Laboratory, October 22-24, 1998.

Radiation and mortality among US Department of Energy workers: Relevance to radiation protection standards. NY Academy of Medicine, New York, September 26, 1998.

Health effects of Department of Energy Facilities. Physicians for Social Responsibility Annual Meeting, Arlington, VA, May 1, 1998.

Committee on Veterans Affairs, United States Senate, 105<sup>th</sup> Congress Second Session, "Ionizing Radiation, Veterans Health Care, and Related Issues," Washington, DC, April 21, 1998; published testimony: Serial HRG. 105-983, pages 14-16 and 111-113, U.S. Government Printing Office, Washington, DC.

Environmental justice in North Carolina, East Carolina University Brody School of Medicine, Greenville, NC, April 17, 1998.

Radiation epidemiology, Hanford Health Effects Subcommittee (CDC-ATSDR), Seattle, WA, 1997.

How communities affect epidemiology: A re-analysis of cancer incidence near Three Mile Island. Community Partnership Research Conference, Clark University, September 21, 1996.

How pure is the quantitative basis of epidemiology? An examination of four numerical concepts. London School of Hygiene and Tropical Medicine, July 1996.

Whose epidemiology, whose health? Department of Public Health, University of Liverpool, July 1996.

Department of Health and Human Services Advisory Committee on Energy-Related Epidemiologic Research, "Data collection and record access in epidemiological studies of workers at DOE facilities," Santa Fe, NM, April 18, 1996.

Occupational inequalities in mortality. Division of Occupational and Environmental Medicine, School of Medicine, Duke University, February 2, 1996.

Environmental epidemiology, Conference on Cancer and the Environment: Women's Action for Prevention, Shaw University, Raleigh, NC July 7, 1995.

An epidemiological triangle: Questions, answers and methods. Joint meeting of the Brazilian, Ibero-American and Latin American Congresses of Epidemiology, Salvador, Bahia, Brazil, April 24-28, 1995.

Radiation risks and mammography, Health and Today's Environment: A Symposium on Action for Cancer Prevention and Natural Health, Albuquerque, NM, October, 1994 Low-level radiation panel, Radiation Health Effects and Hanford: A Conference for Concerned Citizens and Health Care Providers, Spokane, WA, September, 1994

Health risks from ionizing radiation, Massachusetts Low-Level Radioactive Waste Management Board, Worcester, MA, November 3, 1993

Concepts in modern epidemiology: Population, risk, dose response and confounding. Workshop on Critical Theory in Epidemiology, Department of Preventive Medicine, Federal University of Bahia, Salvador, Brazil, June 14-18, 1993.

Recording of external radiation exposures at Oak Ridge National Laboratory: Implications for epidemiological studies. Workshop on the Epidemiologic Use of Nondetectable Values in Radiation Exposure Measurements. National Institute of Occupational Safety and Health, Cincinnati, OH, September 9 and 10, 1993.

Towards a post-Columbian science of disease causation. Indigenous Peoples Forum/Medical and Scientific Methods for Diagnosing Human and Environmental Effects from Nuclear Testing, Las Vegas, Nevada, October 2-4, 1992.

Subcommittee on Compensation, Pension and Insurance of the Committee on Veteran's Affairs, House of Representatives, 102<sup>nd</sup> Congress Second Session, "H.R. 3236 and H.R. 4458, Bills Affecting Veterans Exposed to Ionizing Radiation in Military Service," May 27, 1992. Published testimony: Serial No 102-42, pages 10-16 and 51-52, US Government Printing Office, Washington: 1992.

Recent findings on low-dose radiation and mortality at the Oak Ridge National Laboratory, U.S.A. Institute for Radiation Hygiene, Munich, Germany, March 5, 1992.

Recent findings on low-dose radiation and mortality at the Oak Ridge National Laboratory, U.S.A. German Cancer Institute, Heidelberg, Germany, March 4, 1992.

Recent findings on low-dose radiation and mortality at the Oak Ridge National Laboratory, U.S.A. Institute for Radiation Biology, University of Munster, Munster, Germany, March 3, 1992

Study of worker exposure at Oak Ridge National Laboratory. Low Level Radioactive Waste Forum Quarterly Meeting, New Orleans, LA, April 19, 1991.

Health effects of low level radiation, Chatham County, NC Low-Level Radioactive Waste Site Designation Review Committee, April, 1991

Health effects of low level radiation, Richmond County, NC Low-Level Radioactive Waste Site Designation Review Committee, April, 1991

Factors associated with the onset and magnitude of the decline of cardiovascular disease mortality in the United States. First International Searle Symposium on Prevention and Epidemiology, Ulm, Germany, July 5, 1990.

An epidemiological study of low dose occupational exposure to ionizing radiation. First International Searle Symposium on Prevention and Epidemiology, Ulm, Germany, July 5, 1990.

Social inequalities and health: The contradictory role of health professionals. 17th Annual Regional Conference on Maternal and Child Health, Family Planning, and Services for Children with Special Health Needs, Raleigh, N.C., May 2, 1990.

## TEACHING

## **UNC Courses**

2010 Lead instructor, Environmental Epidemiology (EPID 785) (14 students).

Introduction to topics and methods in environmental epidemiogogy.

2011-14 Lead instructor, Perspectives in Epidemiology and Public Health (EPID 890) (5 – 12 students per semester, fall and spring semesters)

A seminar for first-year MSPH students in the Department of Epidemiology.

2000- Lead instructor, Community-Driven Epidemiology and Environmental Justice (EPID 278) (7 – 15 students per semester)

Principles for conducting research within communities unduly burdened by environmental health threats. Topics include research ethics, community presentations, study design and implementation, and student research projects. EPID 278 was was selected as an innovative course by The Consortium for Environmental Education in Medicine in 2000, and was nominated by the Theta chapter of Delta Omega for the Delta Omega Award for Innovative Public Health Curriculum in 2001.

1997-99; 2007 Co-instructor, Occupational Epidemiology (EPID 276) The course provides a background in the epidemiology of work-related illness and injury and the application of epidemiologic concepts and methods in protecting workers' health and safety.

1996- Lead instructor, Doctoral Seminar in History and Philosophy of Epidemiology (EPID 390) (12 – 28 students per semester)

This seminar exposes epidemiology doctoral students to issues and debates in the philosophy of science, the objects of knowledge in epidemiology, and the place of epidemiology in public health.

1994-97 Co-instructor, Advanced Methods in Epidemiology (EPID 268) An in-depth treatment of key mehtodological topics in epidemiology, including concepts of cause, confounding, control selection, data quality, sampling variability, and effect modification.

1992-95 Instructor, Philosophy of Epidemiology (EPID 217)

A forum for evaluating the place of epidemiology in science, public health and society, focusing on the nature of objectivity and the social consturction of epidemiological knowledge.

1987-91 Instructor, co-instructor, Principles of Epidemiology (EPID 160) An introductory course that considers the meaning, scope, and applications of epidemiology to public health practice and the uses of vital statistics data in the scientifi appraisal of community health.

1985-87 Co-instructor, Cardiovascular Disease Epidemiology (EPID 256) Review of the main causes of cardiovascular disease morbidity and mortality, and their population determinants. Topics include epidemiologic methods, risk factors, strategies for prevention, and a student research project.

## **Other Courses**

2007 Johns Hopkins University Fall Institute, Barcelona, Spain. Social Justice and the Environment (with Joan Benach).

1997 Co-instructor, Occupational and Environmental Epidemiology, Institute of Collective Health, Federal University of Bahia, Brazil. An introduction to epidemiology in occupational and environmental health.

1993 Lead instructor, Problems in Epidemiology: Methodology and Philosophy. Department of Preventive Medicine, Federal University of Bahia, Brazil. An advanced seminar in philosophy of epidemiology conducted with faculty and students from UFBA.

1990 Co-instructor, Principles of Epidemiology, 4-week introductory graduate-level course. University of Ulm, Germany. An introductory course that considers the meaning, scope, and applications of epidemiology to public health practice and the uses of vital statistics data in the scientific appraisal of community health.

# **CONTRACTS & GRANTS**

## Submitted

North Carolina Environmental Justice 2014 Summit Proposal (principal investigator), National Institue of Environmental Health Sciences, R13.

Health and Air Pollution from Confined Animal Feeding Operations (principle investigator). National Institue of Environmental Health Sciences, R01, proposed 9/1/2014-8/31/2019.

Aromatic Amines and Bladder Cancer among Workers Exposed to Epoxy (co-investigator). National Institute for Occupational Safety and Health, R01.

## Active

Pathways for human uptake of emerging chemicals of concern in land-applied sewage sludge. Center for Environmental Health and Sustainability small grant (principal investigator), NIEHS.

North Carolina Environmental Justice 2013 Summit Proposal (principal investigator), National Institue of Environmental Health Sciences, R13.

The impact of intensive livestock production on the disease ecology of antibiotic resistant staphylococcus (co-investigator). National Science Foundation, 2013-2016.

Community Health Effects of Sewage Sludge (principal investigator). National Institute of Environmental Health Sciences, 2007-2013.

Air emissions from industrial animal operations and respiratory health of adolescents (principal investigator), Johns Hopkins University, 2009-2013.

Long-term Effects of Occupational Radiation Exposures (co-investigator), 2009-13.

# Completed

| 2006 | Epidemiologic Surveillance and Investigation of Symptoms of Illness Reported By<br>Neighbors of Biosolids Land Application Sites (principal investigator), Water<br>Environment Research Foundation, 7/1/2007-8/31/2008. |
|------|--|
| 2003 | Agricultural Dust and Childhood Asthma Symptoms (principal investigator, doctoral research of Maria Mirabelli), National Heart Lung and Blood Institute R01 HL073113, 04/01/03 – 03/31/05.                               |
| 2002 | Improving Environmental Health Research Through Dialogue (co-investigator).<br>National Institute of Environmental Health Sciences, 9/30/02 - 8/31/07.   |
| 2002 | Susceptibility in Occupational Radiation Risks (co-investigator). National Institute for Occupational Safety and Health, 9/30/02-9/29/05.  |
| 2002 | Time-Factors in Exposure Effects Among Uranium Workers. (co-investigator).<br>National Institute for Occupational Safety and Health, 5/01/02 - 4/30/05.  |
| 2002 | Community-Driven Research on Environmental Justice and Landfills in North Carolina (principal investigator). Jesse Ball duPont Fund, 01/01/02 – 12/31/05.  |
| 2001 | Community Health Effects of Industrial Hog Operations. (principal investigator).<br>National Institute of Environmental Health Sciences, 09/01/01 - 08/30/08.  |
| 2000 | Work and Health Disparities among Rural Women: Epidemiology Support (principal investigator). Duke University National Institute of Environmental Health Sciences, 09/30/00 - 09/29/05.                                  |
| 2000 | Short Courses for Environmental Health Research Ethics: North Carolina<br>Component (principal investigator). Syracuse University National Institute of<br>Allergy and Infectious Disease, 09/30/00 - 08/31/06.          |
| 2000 | Community Health and Environmental Reawakening (principal investigator).<br>National Institute of Environmental Health Sciences, 09/01/00 - 04/30/09.  |
| 2000 | Minority Graduate Research Assistant Supplement to Community Health and<br>Environmental Reawakening (principal investigator). National Institute of<br>Environmental Health Sciences, 09/01/00 - 08/30/01.              |

| 1999         | Environmental and Public Health Impacts of Intensive Livestock Operations in the Wake of Flooding from Hurricane Floyd (principal investigator). Center for a Livable Future, Johns Hopkins School of Public Health, 01/01/00 - 12/30/00.                           |
|--------------|---|
| 1998         | Rural Health Study (principal investigator). North Carolina Department of Health and Human Services, 7/1/98 – 6/30/99.  |
| 1998<br>1997 | Older Women, Dietary Intake and Dependence on the Local Food Environment (principal investigator, doctoral research of Kimberly Morland, 07/01/98 – 06/30/99. Enabling Community-Based Environmental Research and Education (Principal                              |
|              | Investigator). Chancellors Office, University of North Carolina at Chapel Hill, 12/01/97 - 6/30/98.   |
| 1997         | Environmental Justice and Community-Based Prevention/Intervention Research<br>Conference Grant, supplement to Southeast Halifax Environmental Reawakening<br>(principal investigator). National Institute of Environmental Health Sciences,<br>09/01/97 - 08/31/99. |
| 1996         | Bahia-US Environmental Epidemiology Training and Research (co-investigator).<br>Fogerty International Center, National Institutes of Health, 9/30/96 - 09/29/01.  |
| 1996         | Ionizing Radiation and Mortality Among Hanford Workers (principal investigator).<br>National Institute for Occupational Safety and Health, 09/30/96 - 09/29/01.   |
| 1996         | Southeast Halifax Environmental Reawakening (principal investigator). National Institute of Environmental Health Sciences, 09/01/96 - 08/30/00.   |
| 1996         | Critical Review of the United States Department of Energy Efforts to Investigate the Human Health Effects of Plutonium (principal investigator). Berger-Montague, $07/18/96 - 07/17/97$ .   |
| 1995         | Time Related Factors in Radiation-Cancer Dose Response (principal investigator, Doctoral research of David Richardson). National Institute for Occupational Safety and Health, 07/01/95 - 06/30/97.   |
| 1994         | Epidemiological Studies of the Accident at Three Mile Island (principal investigator).<br>Center for Environmental Studies, John Snow Institute, 03/01/94 - 12/31/95.   |
| 1993         | Study of Multiple Myeloma Among Workers Exposed to Ionizing Radiation and Other Physical and Chemical Agents (principal investigator). National Institute for Occupational Safety and Health, 10/01/93 - 02/29/96.  |
| 1992         | Geographical Differentials in Stroke Mortality Levels and Trends in the U.S. (principal investigator). Centers for Disease Control, 08/28/92 - 03/30/93.  |

| 1992 | The Potential Impact of Ill-Defined Mortality on the Decline of Ischemic Heart Disease in the U.S. (principal investigator, Doctoral research of Donna Armstrong). American Heart Association, North Carolina Affiliate, 07/01/92 - 06/30/93. |
|------|---|
| 1990 | Minority Graduate Research Assistant Supplement to Community Structure and Cardiovascular Mortality Trends (principal investigator). National Heart, Lung and Blood Institute, 07/01/90 through 05/31/92.                                     |
| 1989 | Community Structure and Cardiovascular Mortality Trends (principal investigator).<br>National Heart, Lung and Blood Institute, 06/01/89 - 05/31/93.   |
| 1987 | Health and Mortality of Department of Energy Workers (co-investigator). U.S. Department of Energy, 10/01/87 - 03/31/94.   |

### SERVICE

### Department

Masters Examination Committee, Ad Hoc Core Course Review Committee, Masters Program Committee, Departmental Seminar Committee, Ad-hoc Task Group on Integration of the Core Methods Courses, Faculty Task Group on Course Evaluations, Curriculum Committee, Doctoral Qualifying Examination, Graduate Studies Committee, Awards Committee, MSPH Program Advisor

### School

Greenburg Alumni Endowment Awards Committee, 2005 UNC Housekeeper Health Study Co-investigator, 1997-1999 Committee on Learning Environments and Research Networking for the 21st Century, 1995-1996 Institutional Review Board, 1994-1997 School of Public Health Awards Committee

### University

Center for Health Promotion and Disease Prevention Population and Policy Working Group, 1998 University Faculty Council, 1993-1996 Buildings and Grounds Committee, 2009-2012

### State

Member, Toluene Diisocyanate Advisory Panel, NC Division of Occupational and Environmental Epidemiology, 2007-2009.

- Vice-President, NC Conference of the American Association of University Professors, 2007-2009.
- North Carolina Central University, Advisory Board, Environmental Risk and Impact in Communities of Color and Economically Disadvantaged Communities, 2001-2002.
- North Carolina Environmental Justice Network, member, annual NC Environmnetal Justice Summit Planning Committee, 1998 - present.
- Center for Community Action, Lumberton, NC. Reviewer, health effects of tire pyrolysis facility, 1996.
- Clean Water Fund of NC, Ashville, NC. Review of cancer studies in Paw Creek conducted by the NC Department of Health and Human Services, 1996.
- Land Loss Fund, Tillery, NC, consultation on land loss and public health, National Black Land Loss Summit planning committee member, 1996.
- UNC Alumni Heart Study (Duke University), research design consultation, 1985-88.

### National

Institute of Medicine, Exploring the True Costs of Food: A Workshop, 2012

Agency for Toxic Substances and Disease Registry, peer reviewer, 2002.

Concerned Citizens for Nuclear Safety, Santa Fe, NM, 2000-2002.

- California Environmental Protection Agency, member and Co-Chair, Santa Susanna Field Laboratory Advisory Panel, 2000-2002.
- East Hampton Town Hodgkin's Cancer Task Force, East Hampton, NY. June 4-5, 2000.
- US General Accounting Office, Denver, CO. Epidemiological evidence relevant to radiation protection, 2000.
- West Virginia University, Morganton, WV. Social Environment and Rural Community Health Project, October 7-8, 1999.
- National Academy of Sciences, Washington, DC. Reviewer, Review of the Hanford Thyroid Disease Study Draft Final Report, 1999.
- Rural Coalition, Washington, DC. Presentation and consultation on community based evironmental health research, National Advisory Board, April 6, 1998.
- Pan American Health Organization, Washington, DC. Review of literature on social inequalities in health (with David Richardson), 1998.
- Ministry of Health and Environment, Schleswig-Holstein, Kiel, Germany. Review of literature on radiation health effects (with David Richardson and Alice Stewart), 1997-1998.
- Clark University, Worcester, MA. Member of planning committee, Community Research Partnership Conference, 1996.
- Yakama Indian Nation Environmental Restoration and Waste Management Program, Toppenish, WA. Consultation on radiation epidemiology, 1995.
- Centers for Disease Control, Atlanta, GA. Reviewer of educational materials on health effects from the Hanford Plutonium production facility, 1995.
- American Public Health Association, Washington, DC. Member, Task Force on Social Welfare Policy, 1992-1993; co-author of Social Welfare Policy Statement.
- Three Mile Island Public Health Fund Scientific Advisory Board, Philadelphia, PA. Consultation on radiation epidemiology, October, 1992.

- Ministry of Health and Environment, Schleswig-Holstein, Kiel, Germany. Consultation with the Minister of Health regarding radiation protection policy. March, 1992.
- Northwest National Life Insurance Company State Health Rankings, Delphi Panel Member, 1992.

### International

Scientific and Ethics Committee for the Clinical Study of the F1 Offspring of A-bomb Survivors

## LEGAL RESEARCH AND TESTIMONY

 Alynda Talmadge, et al. vs. Babcock and Wilcox Power Generation Group, Inc., et al., 2014.
Wake County Superior Court, Waste Industries USA, Inc. and Black Bear Disposal, LLC vs. State of North Carolina and North Carolina Department of Environment & Natural Resources. 2010.

State of North Carolina Wake County Office of Administrative Hearings. Jerry Franks, Petitioner, vs. North Carolina Department of Environment & Natural Resources and Wake County Board of Commissioners, Respondents.

- United States District Court for the District of Colorado, Merilyn Cook, et al. v. Rockwell International Company and the Dow Chemical Company, Civil Action No. 90cv00181JLK.
- United States District Court for the Middle District of Pennsylvania. TMI Litigation Cases Consolidated II, Civil Action No. 1:CV-88-1452.
- United States District Court for the Eastern District of Tennessee Northern Division at Knoxville. Euchee Marina & Campground, et al., Plaintiffs vs. Martin Marietta Energy Systems, Incorporated, et al., Civil Action No. 3-91-0510.
- United States District Court for the Southern District of California. Glen and Doreth James, Plaintiffs, vs. Southern California Edison Company, et al., Case No. 94-1085 NJ (RBB).
- District Court of Harris County, TX, 125th Judicial District. Terry Joe Groom, Plaintiff, vs. Schlumberger Technology Corporation et al., Case No. 94-42682.
- United States District Court for the District of Colorado. Merilyn Cook, et al., Plaintiffs, vs. Rockwell International Corporation and The Dow Chemical Company, Civil Action No. 90-K-181.
- Carolyn Mull, Personal Representative of the Estate of Roy Mull, Employee/Plaintiff vs. Duke Energy Corporation, Employer/Defendant, North Carolina Industrial Commission File No. 717904.

## JOURNAL REVIEW

American Journal of Epidemiology American Journal of Industrial Medicine American Journal of Public Health Annals of Epidemiology CA - A Cancer Journal for Clinicians Environmental Health Curriculum Vitae Steven Bennett Wing

**Environmental Health Perspectives Environmental Research Environmental Science: Processes and Impacts** Epidemiology Health Education and Behavior Journal of Epidemiology and Community Health Journal Of Exposure Science And Environmental Epidemiology Journal of Gerontology Medicine and Global Survival New Solutions: A Journal of Environmental and Occupational Health Policy Occupational and Environmental Medicine Progress in Community Health Partnerships: Research, Education, and Action **Radiation Research** Science of the Total Environment Social Movement Studies Social Science and Medicine New England Journal of Medicine **New Solutions** 

## **GRANT REVIEW**

NIEHS special emphasis panel for Conference Grants (R13 Applications), April, 2014

NIEHS special emphasis panel, Environmental Justice: Partnerships for Communication, April, 2005.

NIEHS special emphasis panel, Environmental Health Sciences Center Grants, June, 2002.

NIEHS special emphasis panel, Community Based Prevention and Intervention Research, March 2000.

NIEHS special emphasis panel, Environmental Justice: Partnerships for Communication, February 1999.

NIEHS special emphasis panel, Community Based Prevention and Intervention Research, July 1996.

Alberta Cancer Board, 1992.