

*Curriculum Vitae*

**Steven R. Browning, MSPH, PhD**

**Assistant Professor, Regular Title Series  
Department of Epidemiology  
University of Kentucky College of Public Health**

***Education:***

University of North Carolina at Chapel Hill, Chapel Hill, North Carolina  
School of Public Health:

Doctor of Philosophy, Department of Epidemiology, May 1994.  
Minor: Environmental Sciences and Engineering

Master of Science in Public Health, Department of Epidemiology, December, 1989.

University of Utah, Department of Biology:

Bachelor of Science in Biology, Magna Cum Laude, Phi Beta Kappa, December 1986.  
University Presidential Scholarship (1982-1986)  
Major: Genetics and Ecology Minor: Anthropology

***Current Appointments:***

University of Kentucky, College of Public Health, Department of Epidemiology

Assistant Professor, August, 2006 - present

Joint Appointments:

Faculty Associate, Southeast Center for Agricultural Health and Injury Prevention,  
2006- present

Faculty Associate, Kentucky Injury Prevention and Research Center, 2011 - present

***Past Appointments:***

Senior Scientist of Epidemiology, August 2005-August 2006  
Center for Health Research and Rural Advocacy  
Geisinger Health System  
Danville, Pennsylvania

Assistant Professor of Epidemiology, June 2001 – July 2005  
College of Nursing  
Chandler Medical Center

The University of Kentucky  
Research Assistant Professor of Epidemiology, September 1994-June 2001  
Department of Preventive Medicine and Environmental Health and  
The Southeast Center for Agricultural Health and Injury Prevention  
Chandler Medical Center  
The University of Kentucky

Research Scientist, January 1994-September 1994  
Bureau of Environmental and Occupational Epidemiology  
New York State Department of Health  
Albany, New York

### *Honors & Awards:*

Dean's Teaching Performance Award, University of Kentucky, College of Public Health  
May 2011.

Mentor Recognition Award, Clinical and Translational Science Conference, June 2008

National Research Service Award, Cancer Training Grant, 1989-1992

Public Health Service Traineeship, 1987-1989

Delta Omega Honorary Public Health Society, 1995

### *Applications under Review:*

1. Title: **NIOSH Education and Research Center.**

(PAR 10-217), submitted to NIOSH in August 2011.

Project Role: S. Browning: Director of Occupational Epidemiology Core. (PI: Wayne Sanderson, PhD)

Funds Requested: \$638,441 for 3 years for Occupational Epidemiology Core. Total grant budget: \$5.3 million.

This is a 3 year curriculum project which will expand the training capacity of the College of Public Health by providing scholarships and stipends to MPH, PhD and DrPH students who focus in occupational safety and health.

2. Title: **Cardiovascular and injury mortality among farmers and truckers in the United States (1986-2006).**

Submitted June 2011, in response to NIOSH R03 Small Grants Program.

Role: Principal Investigator

Funds Requested: \$134,870 for 2 years.

We propose a study of the risk of CVD and injury mortality among farmers and truckers using a nationally representative data set and will employ a propensity score matching approach to improve the selection of comparable population sets of employed workers to control for the healthy worker bias and other confounding variables.

**3. Title: Anomalous opioid prescribing and dispensing patterns in a cohort of traffic injury patients.**

Submitted September 2011, in response to as part of the CDC Injury Prevention and Research Center.

Role: Co-Principal Investigator with Mike Singleton.

Funds Requested: \$150,000 for 2 years.

This project will be a data linkage cohort study.

*Application in development:*

**1. Title: Fall-Related Injuries among Agricultural Workers in Kentucky and Tennessee: Application of the Case-Crossover Design in Agricultural Health.**

Developed June 2010 for NIOSH Supplementary Funding. Not submitted due to funding cancellation.

Role: Principal Investigator

Funds Requested: \$282,377 for 2 years.

We propose a two year research plan consisting of a case-crossover study of injuries due to falls among workers in agriculture, including farmers (full and part-time), farm workers, and hired farm laborers. The geographic focus of the proposal will be limited to Kentucky and Tennessee using trauma centers located in Lexington and Louisville, Kentucky and in Nashville and Knoxville, Tennessee. The goal of the case-crossover study is to define the transient risk factors for fall-related injuries, including those from heights in barns, from ladders, from farm equipment, and from slips and trips on level ground, while performing farm work.

*Applications recently submitted but not funded:*

**1. Public Health Applications of Telemedicine Systems to Improve MCH Outcomes**

Submitted June 2011 to Robert Wood Johnson

Role: Co-Principal Investigator with Lorie Chesnut, Co-PI.

Funds Requested: \$198,981 for 2 years

**2. Cancer incidence in farmers: a model record linkage approach using cancer registries and NASS.**

Submitted January 2011 to NIOSH as a project in Agricultural Center application

Role: Principal Investigator

Funds Requested: \$147, 279 for 3 years.

In this R01-type project, we propose a novel, record linkage study of approximately 60,000 farmers in Kentucky identified through their participation in the Census of Agriculture and link these files with both incidence and mortality data from the Kentucky Cancer Registry for a 15 year period using probabilistic record linkage software.

**3. Optimal genome-wide association synthesis of population- and family-based data.**

Submitted April 2010 to NIH (PA-09-131)

Role: Co-Principal Investigator with David Fardo, PhD.

Funds Requested: \$397,632 for 2 years

The goal of this application is to elicit novel SNPs significantly associated with diabetic nephropathy and its related, intermediate phenotypes in the GoKinD study by developing and using innovative statistical methodologies that provide a solution to the multiple testing problem in GWAS.

#### **4. Gene and Environment Associations among Type I Diabetics with Chronic Kidney Disease.**

Submitted October 2008 (R21) to National Institute of Diabetes Digestive and Kidney Diseases.

Role: Principal Investigator.

Funds Requested: \$396,177 for 2 years.

The proposed case control study will examine gene-environment interactions between cigarette smoking and body mass index and several candidate genes for the development of chronic kidney disease (CKD) in patients with Type 1 diabetes.

#### **5. The Respiratory Health of Farm Children**

Co-PI: Steve Browning, PhD with Patricia Burkhart, PhD, (Nursing)

Application: 1 R01 NR009842-01 for PA-03-159

Source: National Institute of Health

Years: April 2006-March 2009

Amount: \$1,053,213

Using a nested, case/control methodology, the study aims include: estimating age and gender-specific prevalence of asthma among children 2 to 18 years living on farms in Kentucky, Pennsylvania, and South Carolina; identifying risk or protective factors; identify asthma triggers and symptom management strategies; evaluating the impact of asthma on the quality of life of children and their families.

#### ***Previous Grants and Contracts (completed):***

Title: **Evaluation of Northern Kentucky Women's Cardiovascular Assessment and Risk Reduction Education Project (ASTWH070002-01-00).**

Role: Project Evaluator. (PI: Kristen Theobald, St. Elizabeth Hospital)

Source: Northern Kentucky Women's CARE Collaborative in 2007 after obtaining a \$1.5 million grant from the U.S. Department of Health and Human Services (DHHS) Office on Women's Health Subcontract to University of Kentucky.

Years: July 2008-August 2010

Amount: \$47,160 (across three years for subcontract): Total grant: 1.5 Million for 3 years.

Description: The overall goal of the program was to reduce the prevalence of hypertension among women residing in an eight county region in northern Kentucky, estimated to include more than 162,000 women. The activities included cardiovascular screening, health promotion, and evaluation.

Title: **Training Workshop for MCH Professionals in Epidemiology.**

PI: Steve Browning, PhD

Source: Association of Maternal Child and Health Programs

Years: January 2007-June 2007.

Amount: \$5,000

This proposal is for a training workshop by the Department of Epidemiology, College of Public Health, and offered to 20 employees of the MCH division in Cabinet for Health and Family Services, Frankfort, Kentucky.

**Title: Environmental Epidemiology of Chronic Kidney Disease in the Geisinger Health System Cohort: A Pilot Study**

PI: Steve Browning, PhD

Source: Geisinger Research Foundation

Years: January 2006-August 2006.

Amount: \$50,000

This study proposes to examine the descriptive epidemiology of chronic kidney disease and the distribution of the stages of kidney disease using existing data from the Geisinger electronic health record (EHR) for the 38 county region. We will determine the rates of chronic kidney disease by age, gender, and geographic location (county) for all cases in the data EHR, through linkage with Census data (by calendar year, age, race, gender, and geographic location) and map using GIS techniques (by zipcode) the rates of chronic kidney disease in a three county area (Montour, Northumberland, and Snyder).

**Title: Patterns of Incidence, Mortality, and treatment of Colorectal Cancer in the Appalachian region of Kentucky, 1995-2002.**

PI: Steve Browning, PhD

Source: Appalachian Cancer Network. National Cancer Institute.

Years: January 2004—March 2005

Amount: \$49,635

**Title: Asthma in Kentucky Farm Children**

Co-PI: Steve Browning, PhD with Patricia Burkhart, PhD, (Nursing)

Source: Southeast Center for Agricultural Health and Injury Prevention Pilot Grant Program.

Years: June 2004-June2005.

Amount: \$12,503

**Title: Children's Injuries on Kentucky Beef Cattle Farms**

PI: Steve Browning, PhD

Source: CDC/NIOSH (Grant # 1 R01 OHO3924-01).

Years: 10/01/99-9/29/03

Amount: \$518,500.

**Title: Risk for Workplace Violence in Long-Haul Truckers**

Role: Co-Investigator. (PI: Deborah Anderson)

Source: CDC/NIOSH. (Grant # R01 OH07931-01)

Years: 07/01/2002-06/30/2005

Amount: \$640,271

Title: **Sustained Work Indicators of Older Farmers.**

Role: Co-Investigator. (PI: Deborah Reed)

Source: CDC/NIOSH. (Grant # R01 OH07534-01)

Years: 07/01/2001-06/30/2006

Amount: \$1,267,000

Title: **Farmer Suicides: A Ten –Year Analysis in Three Southeastern States**

PI: Steve Browning, PhD

Source: NIOSH Center Grant to Southeast Center for Agricultural Health and Injury Prevention. (5 U50 OHO7547)

Years: September 2002-September 2004

Amount: \$40,792

Title: **Chronic Arsenic Exposure from Drinking Water and Reproductive Effects**

Role: Co-PI. (PI: Claudia Hopenhayn, PhD)

Source: The National Center for Environmental Assessment, U.S. Environmental Protection Agency, CR 5825855-01-5.

Years: Jan 2000-December 2002

Amount: \$440,265

Title: **Farm Family Health and Hazard Surveillance Project.**

Role: Co-Investigator. (PI: Robert McKnight, ScD)

Source: NIOSH/CDC.

Years: 1996-1998

Amount: \$440,265

Title: **Agricultural Disability Awareness and Risk Education**

Role: Co-Investigator. (PI: Deborah Reed, PhD)

Source: NIOSH/CDC.

Years: 9/30/1997-9/29/2001

Amount: \$588,830.

***Publications (from most recent):***

Marcum JL, **Browning SR**, Reed DB, Charnigo RJ. Farmwork-Related Injury Among Farmers 50 Years of Age and Older in Kentucky and South Carolina: A Cohort Study, 2002-2005. (2011) *Journal of Agricultural Safety and Health* 17(3): 259-273

Marcum JL, **Browning SR**, Reed DB, Charnigo RJ. (2011) Determinants of work hours among a cohort of male and female farmers 50 years and older in Kentucky and South Carolina (2002-2005). *J Agromedicine* 16(3): 163-173.

Crawford T, Caldwell G, Bush H, **Browning SR**, Thorton, A. (2011) Foreign Born Status and HIV/AIDS: A Comparative Analysis of HIV/AIDS Characteristics Among Foreign and U.S. Born Individuals. *J Immigr Minor Health*.

Jhaveri MA, **Browning SR**, Bush H, Thornton A, Greenberg RN. (2009) Comparison of 3-drug versus 4-drug and PI versus non-PI combinations as initial HAART: experience from 1998 to 2007. *J Int Assoc Physicians AIDS Care (Chic Ill)*. Sep-Oct; 8(5):299-307

Johnson NE, **Browning SR**, Westneat SM, Prince TS, Dignan MB. (2009) Respiratory symptom reporting error in occupational surveillance of older farmers. *J Occup Environ Med*. Apr; 51(4):472-9.

Fahrleitner-Pammer, A., Herberth J. **Browning SR**, Obermayer-Pietsch, B. Wirnsberger, G.Holzer, H.Dobnig, H. Malluche, H. H.. (2008). "Bone Markers Predict Cardiovascular Events in Chronic Kidney Disease." *J Bone Miner Res*. Nov; 23(11):1850-8.

**Browning SR**, Westneat SC, and McKnight R. (2008) Suicide Mortality in Farmers in Three Southeastern States. *Journal of Agricultural Safety and Health*. 14(4) 461-472.

Heaton K., **Browning SR**, Anderson D. (2008) Variables that predict falling asleep at the wheel in long haul truck drivers *AAOHN J*. Sep;56(9):379-85.

Rugg, S. S., Bailey A. and **Browning, SR**. (2008). "Preventing cardiovascular disease in Kentucky: epidemiology, trends, and strategies for the future." *J Ky Med Assoc* 106(4): 149-61; quiz 149, 162-3.

Okoli, C.T.C., **Browning, S.**, Rayens, M.K., Hahn, E.J. (2008). Secondhand tobacco smoke exposure, nicotine dependence, and smoking cessation. *Public Health Nursing*. 25(1): 46-56

Reed, DB, **Browning SR**, Westneat SC, Kidd, PS. Personal Protective Equipment Use and Safety Behaviors Among Farm Adolescents: Gender Differences and Predictors of Work Practices. *The Journal of Rural Health*. Volume 22, Issue 4. Fall 2006. Pages 314-320.

Carruth, A, **Browning SR**, Reed DB, Skarke L, Sealey L., The impact of Farm Lifestyle and Health Characteristics. Cervical Cancer Screening Among Southern Farm Women. *Nursing Research*. January/February 2006. Vo. 55, Number 1.

Bunn, TL, Slavova S, Struttman TW, **Browning SR**. Sleepiness/fatigue and distraction/inattention as factors for fatal versus nonfatal commercial motor vehicle driver injuries. *Accid. Anal Prev*. September 37(5) 862-9, 2005

Spengler, SE, **Browning, SR**, Reed DB. Sleep deprivation and Injuries in Part-Time Kentucky Farmers: Impact of Self-Reported Sleep Habits and Sleep Problems on Injury Risk. *AAOHN Journal*. Volume 52, Number 9, September 2004.

**Browning SR**, Westneat SC, Donnelly C, and Reed DB. Agricultural Tasks and Injuries among Kentucky Farm Children: Results of the Farm Family Health and Hazard Surveillance Project. *Southern Medicine*, Volume 96, Number 12, December 2003.

Hopenhayn-Rich C., Ferreccio C, **Browning S.**, Wang, B, Peralta C., Gibb H. and Hertz-Picciotto I., Arsenic Exposure from Drinking Water and Birth Weight. *Epidemiology*. Volume 14, Number 5, September 2003.

Hopenhayn-Rich C, Stump M, **Browning S**, Huang, B. (2002). Regional assessment of atrazine exposure and incidence of breast and ovarian cancers in Kentucky. *Archives of Environmental Contamination and Toxicology*. 42: 127-136

**Browning SR**, Westneat SC, Szeluga R. (2001). Tractor Driving Among Kentucky Farm Youth: Results from the Farm Family Health and Hazard Surveillance Study. *Journal of Agricultural Safety and Health*. 7(3): 155-167

Horstman SW, **Browning SR**, Szeluga R, Burzycki J, and Stebbins, A. (2001). Solvent Exposures in Screen Printing Shops. *Journal of Environmental Science and Health, Part A – Toxic and Hazardous Substances and Environmental Engineering*. 36(10): 1957-1973.

Hopenhayn-Rich C., **Browning S.**, Hertz-Picciotto I., Ferreccio C.,Peralta C. and Gibb H. Chronic Arsenic Exposure and Risk of Infant Mortality in Two Areas of Chile. *Environmental Health Perspectives*. July 2000. Vol. 108 ( 7) : 667-673

Piecoro L, **Browning SR**, Prince TS, Ranz, TT. Prevalence of Potentially Inappropriate Prescribing in the Elderly Kentucky Medicaid Population. *Pharmacotherapy*. 2000 Feb;20 (2) :221-8.

Cole H, Westneat S, **Browning S**, Piercy L, and Struttman T. Gender Differences in Principal Farm Operators' Tractor Driving Safety Beliefs and Behaviors. *Journal of American Medical Women's Association*. Vol. 55, Number 2. Spring 2000.

Prince TS, Heath R, **Browning SR**. Health Insurance and Work: Characteristics Among Multi-Job Holding Farmers. *Journal of Agromedicine*. Vol 7(2) 2000

Smalley BW, Loecker TH, Collins TR, Prince TS, and **Browning SR**. Positive Predictive Value of Cardiac Fluoroscopy in Asymptomatic U.S. Army Aviators. *Aviation, Space, and Environmental Medicine*. Vol 71, Number 12, December 2000.

**Browning SR**, Westneat, SC, Truszczynska H, Reed D, McKnight R. Hazard Surveillance of Farm Tractor Safety Features: Results from the Kentucky Farm Family Health and Hazard Surveillance Project *Public Health Reports*. Vol. 114 ; January/February 1999

Heath R, **Browning SR**, Reed D. Prevalence and Risk Factors for Hypertension Among Older Kentucky Farmers. *Journal of Agromedicine*. Vol 6 (1). 1999

Hopenhayn-Rich C., Hertz-Picciotto I., **Browning S.**, Ferreccio C., Reproductive and Developmental Effects Associated with Chronic Arsenic Exposure. Book Chapter. Proceedings of the 3<sup>rd</sup> International Conference on Arsenic Exposure and Health Effects. August 1999.

Reed D, Westneat S, **Browning S**, Skarke L. The Hidden Work of the Farm Homemaker. *Journal of Agricultural Safety and Health* Vol. 5 (3) p. 317-327, 1999 .

**Browning SR**, Truszczynska H, Reed D, McKnight R. Agricultural Injuries Among Older Kentucky Farmers: The Farm Family Health and Hazard Surveillance Study. *American Journal of Industrial Medicine*. 1998 Vol. 33. 341-353

Loomis DP, **Browning SR**, Schenck AP, Savitz DA. Cancer Mortality Among Electric Utility Workers Exposed to Polychlorinated Biphenyls. *Occupational and Environmental Medicine*. 1997 54: 720-728

Kettles MA, **Browning SR**, Prince TS, Horstman SW. Triazine Herbicide Exposure and Breast Cancer Incidence: An Ecologic Study of Kentucky Counties. *Environmental Health Perspectives*. Vol. 105

Strogatz D., Croft J, James S, Keenan N, **Browning SR**, Garrett J. Social support, stress, and blood pressure in blacks. *Epidemiology*. September 1997. Vol. 8, Number 5.

Loomis DP, Peipins LA, **Browning SR**, Howard RL, and Savitz DA. Organization and classification of work history data industry-wide studies: an application to the electric power industry. *American Journal of Industrial Medicine*, 26: 413-425, 1994

James SA, Keenan NL, Strogatz DS, **Browning SR**, Garrett JM. Socioeconomic status, John Henryism, and blood pressure in Black adults: The Pitt County Study. *American Journal of Epidemiology*, 1992; 135(1): 59-67

Strogatz DS, James SA, Haines PS, Elmer PJ, Gerber AM, **Browning SR**, Ammerman AS, Keenan NL. Alcohol consumption and blood pressure in Black adults: The Pitt County Study. *American Journal of Epidemiology*, 1991; 133: 442-50

James SA, Keenan NL, and **Browning SR**. Socioeconomic status, health behaviors, and health status among Blacks. In D. Blazer, J. House and W. Schaie (eds.), Aging, Health Behaviors, and Health, Hillsdale, NJ: Erlbaum, 1990

### ***Textbook Chapters and Other Published Works:***

**Browning, SR**, Theobald K. Evaluation Report: Northern Kentucky Care Collaborative. Prepared for the Office of Women's Health. November 2010.

**Browning SR** and Fleming S. Cardiovascular Epidemiology. Chapter 15 in Managerial Epidemiology: Concepts and Cases. Second Edition by Steven Fleming (2007-2008). Health Administration Press. Chicago, Illinois.

**Browning SR**, Westneat SC, and Szeluga R. Children's Injuries on Kentucky Beef Cattle Farms. A Final Report for Grant 1 R01 OHO3924-01. (August 2004)

Reed DB, Garkovich L, **Browning SR**, Rayens MK, McCollough J. Final Progress Report: Sustained Work Indicators of Older Farmers to NIOSH for grant 1 R01 OH04157. March 18, 2008.

**Browning, SR**, Westneat SC, Reed DB, McKnight, RC. The Kentucky Farm Family Health and Hazard Surveillance Project: Final Report: Sampling, Data Analysis, and Selected Results. Prepared for the National Institute of Occupational Safety and Health. Submitted January 1999.

Struttman T, Spurlock C, **Browning S**, McKnight R. Farm Tractor Related Fatalities in Kentucky, 1994. *Morbidity and Mortality Weekly Report (MMWR)*, Vol 44, Number 26, July 7, 1995

Zwerling, C et al including **S. Browning**. Use of Rollover Protective Structures -- Iowa, Kentucky, New York, and Ohio, 1992-1997. *Morbidity and Mortality Weekly Report (MMWR)*, Vol. 46, Number 36.

### ***Publications Accepted and In-press.***

Rinsky J, Hopenhayn C, Golla V, **Browning S** and Bush H. Atrazine Exposure in Public Drinking Water and Preterm Birth. (Accepted in Public Health Reports)

### ***Publications Under Review.***

Theobald K, Grodecki P, Schklar T, Reed P, **Browning S**. Management of hypertension: Impact of Cardiovascular Assessment, Risk Reduction, and Education lifestyle modification program. (submitted to Journal of Cardiovascular Health)

Hudson N, Mannino D, Charnigo R, **Browning S**, Lile A, Hahn E. Changes in asthma, chronic obstructive pulmonary disease (COPD), ischemic heart disease, and heart failure hospitalizations after implementation of smoke-free laws. (submitted to Environmental Health Perspectives, October 2010)

### ***Publications in Development.***

**Browning SR**, Westneat SC, Reed D. Farm Work and Agricultural Exposures among Children on Kentucky Beef Cattle Farms: Results from a Cohort Study. (In preparation for the Journal of Agricultural Safety and Health).

**Browning SR**, Szeluga R. Cattle-related Injuries and Farm Management Practices on Kentucky Beef Cattle Farms. (In preparation for the American Journal of Industrial Medicine).

### ***Presentations and Abstracts Published in Conference Proceedings (from most recent):***

Rinsky J, Hopenhayn C, Golla V, **Browning S** and Bush H. Atrazine exposure from drinking water and adverse birth outcomes in Kentucky, USA. ISEE conference. September 2011.

Young C, Bush H, **Browning S**, Barton J, Caldwell G. Risk Factors for Late Preterm Birth. American College of Obstetricians and Gynecologists Meeting. San Francisco. April 2010

Reed P, **Browning S**, Davis A, Theobald K. Efficacy of a Brief Intervention: Blood Pressure “Zones” Assessment Card and Educational Encounter with a Healthcare Provider and Reduction of Hypertension. American Heart Association Conference. November 2009.

Marcum J, **Browning S**, Reed D. Farmwork-Related-Injuries in a Cohort of Older Farmers in Kentucky and South Carolina. American Public Health Association Conference. November 2009.

Hensley M, **Browning S**, Bush H. Diabetes Self-Management and Health-Related Quality of Life among Appalachian and Non-Appalachian Kentuckians using BRFSS data 2003-2007. CTTS conference. University of Kentucky. April 2009.

Fahrleitner-Pammer A, Herberth J, **Browning SR**, Holzauer H, Malluche HH. Non-invasive markers of bone metabolism predict cardiovascular morbidity and mortality in chronic kidney disease. 40<sup>th</sup> Annual Meeting, American Society of Nephrology, San Francisco, CA

Burkhart, P.V., **Browning, S.R.**, Westneat, S., Knox, C., & Abshire, D. (2007). Respiratory health of Kentucky farm children. *The Journal of Allergy and Clinical Immunology*, 119(1), S68.

**Browning SR**, Westneat SC, Davis R. Work Exposures and Risk of Cattle-Related Injuries On Kentucky Beef Cattle Farms. Canadian Agricultural Safety Association Conference. Quebec, Canada. December 3-5, 2004.

McKnight RH, **Browning SR**, Westneat SC. Suicide Among Older Kentucky Farmers, 1990-1998. Italian Occupational Gerontology meeting. October , 2004.

Bunn, TL, Kurpad, A., Struttman, T.W., **Browning, SR**, Caldwell, GG. Driver Distraction/Inattention And Driver Fatigue As Risk Factors For A Fatal Commercial Vehicle Collision In Kentucky Presented for National Occupational Injury Symposium in Pittsburgh in October 2003.

**Browning SR**, Westneat SC, Szeluga R. Farm Work and Agricultural Exposures Among Children on Kentucky Beef Cattle Farms. (abstract published in *Epidemiology*, July 2002, Volume 13, Number 4, Supplement). Presented at the ISEA/ISEE International meeting. International Society for Environmental Epidemiology. Vancouver, British Columbia, Canada. August 2002.

Szeluga R, **Browning S**. Westneat S. Farm management practices, work exposures and risk of cattle-related injuries on Kentucky beef cattle farms. Agromedicine Conference. San Diego, California. November 2002.

Hopenhayn-Rich C, **Browning SR**, Ferreccio C, Huang B, Peralta C, Hertz-Picciotto I, Gomez-Camirero, A, Gibb H. The Effects of Arsenic in Drinking Water on Birth Weight. To be

presented at the International Society for Environmental Epidemiology meeting in Garmisch-Partenkirchen, September 2-5, 2001.

Hopenhayn-Rich C, Stump M, **Browning S**, Huang B. Use of secondary data to characterize exposure to environmental pollutants in drinking water, To be presented at the International Society for Environmental Epidemiology meeting in Garmisch-Partenkirchen, September 2-5, 2001.

**Browning S**, Westneat SC, Szeluga R. Farm work injuries to children on Kentucky beef cattle farms. Presentation at the National Occupational Injury Research Symposium. Pittsburgh, PA. October 17-19, 2000.

**Browning S**, Westneat SC, Szeluga R. Health status and maternal education as predictors of the usual number of days worked for Kentucky Farm Children. Presented at Agricultural Safety and Health in the New Century. April 28-30, 2000. Cooperstown, New York.

Stump M, Hopenhayn-Rich C, **Browning S**. Atrazine and Risk of Ovarian Cancer. Presented at Agricultural Safety and Health in the New Century. April 28-30, 2000. Cooperstown, New York.

Clouse R, **Browning S**, Reed D, Horstman S. Dust Exposure and Risk of Respiratory Disease among Tobacco Strippers. Poster presented at Agricultural Safety and Health in the New Century. April 28-30, 2000. Cooperstown, New York.

Hopenhayn-Rich C, Ferreccio C, Peralta C, **Browning S**, Huang B, Gomez-Caminero A, Hertz-Picciotto I, Gibb, H. Arsenic exposure from drinking water and reproductive effects: pregnancy cohort study in Chile. Presented at the 6th International Symposium of Metal Ions in Biology and Medicine, San Juan, Puerto Rico, May 2000.

Hopenhayn-Rich C, Peralta C, **Browning SR**, Huang B, Ferreccio C, Gomez-Caminero A, Hertz-Picciotto I. Arsenic exposure and reproductive outcomes: Preliminary report from a pregnancy cohort study in Chile. Presented at the Fourth International Conference on Arsenic Exposure and Health Effects, San Diego, California, June , 2000.

Cole H, McKnight R, Reed D, **Browning S**, Struttman T, Piercy L. Probability of Death During a Farm Tractor Overturn. Presentation given by S. Browning at the National Occupational Injury Research Symposium. October 17-19, 2000.

Hopenhayn-Rich C, Ferreccio C, Hertz-Picciotta I, Peralta C, **Browning S**, Gibb H. Prospective Pregnancy Followup Study and Arsenic Exposure. (abstract published in Epidemiology July 1999: Volume 10, Number 4 Supplement)

**Browning SR**, Westneat SC, Reed DB, Skarke L. The Health of Kentucky Farm Women. Women's Health Conference. September 25-26, Somerset, Kentucky.

**Browning SR**, Reed DB, McKnight, RH. Prevalence and Risk Factors for Arthritis among Older Kentucky Farmers. Fourth International Symposium: Rural Health and Safety in a Changing World. October 18-22. Saskatoon, Saskatchewan, Canada.

Piecoro LP, **Browning SR**, Prince TS, Ranz TT, Scutchfield FD. Prevalence of Potentially Inappropriate Medication Prescribing in the Elderly Kentucky Medicaid Population. American Public Health Conference. Washington, DC. November 21, 1998.

Westneat SC, **Browning SR**, Reed DB. Tractor Driving among Kentucky Farm Youth. Fourth International Symposium: Rural Health and Safety in a Changing World. October 18-22. Saskatoon, Saskatchewan, Canada.

Cole HP, Westneat SC, **Browning SR**, Piercy LR. Gender differences in principal farm operators' beliefs and practices related to ROPS and seatbelts. Fourth International Symposium: Rural Health and Safety in a Changing World. October 18-22. Saskatoon, Saskatchewan, Canada.

**Browning SR**, Westneat SC, Luchok K, and Wendt C. Skin Cancer Prevention Practices Among Kentucky Farm Women. Presented at the American Public Health Association conference. November 9-13, 1997.

**Browning SR**, Westneat SC, Reed DB, Skarke L. Women in the Fields: A comparison of injuries in Kentucky and Texas. National Occupational Injury Research Symposium. Morgantown, West Virginia. October, 1997.

**Browning SR**, Westneat SC, McKnight RH. Work tasks, Days worked, Supervision, and Risk of a Farm-related Injury Among Kentucky Farm Children. Agricultural Health and Safety Conference. Morgantown, West Virginia

**Browning SR**, Westneat SC, Reed DB, McKnight, RH. Hazard Surveillance among Kentucky Farm Children: Results from the Farm Family Health and Hazard Surveillance Study. Agricultural Health and Safety Conference. Morgantown, West Virginia. July 15-17, 1997. (award winning)

**Browning SR**, Truszczynska H, McKnight R, Reed D. Hazard Surveillance of Farm Tractor Safety Features. Poster presented at the American Industrial Hygiene Conference and Exposition. May 17-23, 1997. Dallas, Texas

**Browning SR**, Westneat SC, McKnight R. Hazardous Work and Injuries among Kentucky Farm Children. Poster presented at Prevention 97. February, 1997, Atlanta, Georgia. (award winning)

TS Prince, **SR Browning**. Risk factors for lack of health insurance among farmers holding multiple jobs in Kentucky. Poster presentation at the American Public Health Association Annual meeting. Indianapolis, IN Nov. 10-12, 1997.

Webber WB, **Browning SR**. Exposure to pesticides and skin cancer among older Kentucky Farmers. Poster presentation at the American Public Health Association Annual meeting. Indianapolis, IN Nov. 10-12, 1997.

Heath RL, **Browning SR**, Reed DB. Hypertension prevalence among older Kentucky farmers.

Poster presentation at the American Public Health Association Annual meeting. Indianapolis, IN Nov. 10-12, 1997.

Webber WB , **Browning SR**. Exposure to pesticides and skin cancer among older Kentucky Farmers. Poster presentation at the 13th Congress of the International Association of Agricultural Medicine and Rural Health. Iowa City, Iowa. September 7-9, 1997.

Reed DB, **Browning SR**, Westneat SC. Mammography use patterns in two states. Presented at Agricultural Health and Safety Conference. Morgantown, West Virginia. July 15-17, 1997.

**Browning SR**, Truscycynska H, McKnight R. Agricultural Injuries Among Older Kentucky Farmers. Annual meeting of the Society of Epidemiologic Research. Boston, Massachusetts. June 1996.

McKnight RH, **Browning SR**, Reed DB. Survivors of farm tractor overturn: a profile from Kentucky, USA. Presented at the Third International Conference of Injury Prevention and Control. February 18-22, 1996. Melbourne, Australia.

McKnight RH, **Browning SR**. Prevalence of traumatic amputations in older farmers: Results of injury surveillance in Kentucky. 25th Annual International Congress on Occupational Health. Stockholm, Sweden, September 1996.

**Browning, SR**, Reed DB, and McKnight RH. Back pain in older Kentucky Farmers. Poster presented at the American Public Health Association Annual meeting in San Diego, California. October 29- November 2, 1995

Loomis DP, **Browning SR**, Savitz DA, Schenck AP, and Gregory E. Cancer Mortality and Exposure to Polychlorinated Biphenyls Among Electric Power Workers in the USA. Presented at the 11 International Symposium of Epidemiology in Occupational Health. Noordwijkerhout, The Netherlands. September 5-8, 1995.

Reed DB, **Browning SR**, and McKnight RH. Hearing Loss Among Older Kentucky Farmers: An Occupational Risk. Presented at the American Public Health Association Annual meeting. San Diego, California. October 29-November 2, 1995.

McKnight RH, **Browning SR**, Reed DB. Are Children working on their family's farm protected by rollover protection on tractors ? Presented at the American Public Health Association Annual meeting. San Diego, California. October 29-November 2, 1995.

McKnight RH, Reed DB, and **Browning SR**. Farm Children at Work: On and Off the Farm. Child and Adolescent Rural Injury Control Conference. Middleton, Wisconsin. March 8-9, 1995.

## ***Teaching and Advising:***

### Current Responsibilities:

Primary Instructor: **Advanced Epidemiology** (CPH 712/910), 4 credit hours (Fall 2006 – present).

Primary Instructor: **Epidemiologic Study Design** (CPH 714), 3 credit hours (Fall 2010 – present).

Primary Instructor: **Social Epidemiology** (CPH 718), 3 credit hours (Spring 2010).

Primary Instructor: **Cardiovascular Epidemiology** (CPH 616), 3 credit hours (Spring 2007).

### New Courses Developed Since Appointment in the College of Public Health.

**Cardiovascular Epidemiology** (CPH 616) (3 semester hours).

**Social Epidemiology** (CPH 718) (3 semester hours).

**Epidemiologic Study Design** (EPI 714) (4 semester hours).

### Course Substantially Revised:

**Advanced Epidemiology** (4 semester hours). (Fall 2006 to present)

### Courses which typically contribute a guest lecture when the course is offered:

- Injury Epidemiology (Bunn, McKnight)
- Occupational and Environmental Epidemiology (Hopenhayn)
- Rural Health (Vanderpool)
- Public Health Nursing (Rice)
- Chronic Disease Epidemiology (Wyatt)
- Occupational and Environmental Medicine (Prince)
- CVD Resident's Seminar (Steinhubl)
- Creek program (Behavioral Medicine –Dr. Cole)
- Certification Examination for Public Health: Instructor for Annual Exam Review in Epidemiology (2009-2011)

### Other Courses Taught at the University of Kentucky Prior to Appointment in the College of Public Health.

College of Nursing (NUR 904) Epidemiology Applied to the Design and Evaluation of Nursing and Health Services: A Distributed Learning Class. (3 credits) Fall 2002-2003. New course which I developed for DNP program.

College of Nursing (NUR 794): Analysis, Interpretation, and Presentation of Quantitative Data. (3 credits) Spring 2002

Preventive Medicine (PM) 521: Introduction to Epidemiology (4 credits). Co-instructor 1994-1995. Primary Instructor 1996-1999.

Preventive Medicine (PM) 621: Advanced Topics in Epidemiology (2 credits). Primary Instructor. 1995-1996

Environmental Systems 620: Guest Lecturer 1996-2000. (1) 3-hour lecture per semester. Principles of Environmental Epidemiology: The PCB Story

Healthy Human Course: Guest Lecturer. 1998-1999 (2) 2 hour lectures per semester. Basics of Clinical Epidemiology / Screening for the Physician

Research Methods. Guest lecture. 2000 (1) 3 hour lecture per semester. Methodologic Issues in Injury Epidemiology.

***Student Advising (Number of Committee Assignments as of September 2011) .***

Doctoral Committees (\* served as Chair): 9 PhD, 1 as chair (Nursing); 10 DrPH, 4 as chair

Master's Committees, MPH Program (\* served as Chair): 28 masters, 16 as chair

Master's Committees, MSPH Program (\* served as Chair): 30 committees, 11 as chair.

***Student accomplishments (Advisor).***

Daniel Saman. Bost Award (2010) and CPH Wiggs Scholarship.

Jennifer Marcum, (DrPH 2010) Council of State and Territorial Epidemiologists Fellow, Nebraska Department of Health.

Charlotte Baker, DrPH (2011). Selected as EIS Officer , CDC.

Karen Arrowood Card , DrPH Student in Public Health. \$25,000 grant from the Southeast Center for Agricultural Health and Injury Prevention (2009)

Jessica Wilson, Doctoral Student in Nursing. \$25,000 grant from the Southeast Center for Agricultural Health and Injury Prevention.

Johann Herberth, MPH student and Physician in the Division of Nephrology, University of Kentucky. University of Kentucky, Dean's Clinical Scholars Program, Project: Replacement of bone biopsy by noninvasive markers in chronic kidney disease

## *Service*

### *Programs Developed with Extramural Funds:*

Title: **Evaluation of Northern Kentucky Women's Cardiovascular Assessment and Risk Reduction Education Project (ASTWH070002-01-00).**

Role: Project Evaluator. (PI: Kristen Theobald, St. Elizabeth Hospital)

Source: Northern Kentucky Women's CARE Collaborative in 2007 after obtaining a \$1.5 million grant from the U.S. Department of Health and Human Services (DHHS) Office on Women's Health Subcontract to University of Kentucky.

Years: July 2008-August 2010

Amount: \$47,160 (across three years for subcontract): Total grant: 1.5 Million for 3 years.

Description: The overall goal of the program was to reduce the prevalence of hypertension among women residing in an eight county region in northern Kentucky, estimated to include more than 162,000 women. The activities included cardiovascular screening, health promotion, and evaluation.

Title: **Training Workshop for MCH Professionals in Epidemiology.**

PI: Steve Browning, PhD

Source: Association of Maternal Child and Health Programs

Years: January 2007-June 2007.

Amount: \$5,000

This proposal is for a training workshop by the Department of Epidemiology, College of Public Health, and offered to 20 employees of the MCH division in Cabinet for Health and Family Services, Frankfort, Kentucky.

### *External Committees:*

Chair, Committee on Education, Training, and Mentoring . Building Epidemiologic Capacity in Kentucky (BECKY) Committee. Cabinet for Health Services.

Service on the Kentucky Heart Disease and Prevention Task Force (Funding Committee)

Member of Kentucky State Data Users Group (Frankfort)

### *University Committees:*

Member, Academic Affairs Committee. College of Public Health. September 2009 to present.

Member, Health Curriculum Coordinating Committee, (2010-2011).

Member, DrPH Comprehensive Examination. Primary test writer for Epidemiology (2008-2011)

Member, PhD Committee for Comprehensive Examination. Primary test writer for Epidemiology (2010-2011)

Member, Joint Epidemiology-Biostatistics PhD ad-Hoc Committee for development of the program.

Member, Admissions Committee. College of Public Health (2008-2009).

Faculty Council, College of Nursing, 2002-2004, (Chair in 2003-2004)

College of Nursing Strategic Planning Committee, 2003-2004

Member of Committee on Research and Policy of the Kentucky Water Resources Institute, University of Kentucky.

***Professional Activities: National and International:***

Reviewer for Manuscripts:

*Journal of Agromedicine* (2002 - present)

*Journal of Agricultural Safety and Health* (2006 - present)

*Environmental Health Perspectives* ( 2005 to present)

*American Journal of Industrial Medicine* (on occasion)

Reviewer for Grant Applications:

CDC grant review panel (July 2007)

NIOSH Special Emphasis Grant Review Panel ().

University of Cincinnati ERC pilot projects (1999 - 2004)

University of Kentucky SE Center for Agricultural Health and Injury Prevention pilot grants

The Alberta Heritage Foundation for Medical Research

Review Panel for RFA OH-01-007 Community Based Interventions to Prevent Childhood Agricultural Injury and Disease. (Washington, DC, May 15-16, 2001)

***Professional Development:***

Summer Program in Applied Biostatistical and Epidemiologic Methods. Completion of courses in Social Epidemiology and Logistic Regression. (July 2009).

Completion of NHLBI Cohort Studies Workshop (July 2008)

Cancer Surveillance Institute I. Principles and Public Health Applications. January 28-31, 2003. San Jose, California.

Southeast SAS Users conference. July 2003

Sample size analysis workshop. Southeast SAS Users group. Jacksonville, Florida. September, 1997.

Calculation methods for Industrial Hygiene. Professional Development Course. American Industrial Hygiene Conference. May 1997. Dallas, Texas.

NIH Regional Seminar on Program Funding and Grants Administration. Vanderbilt University. Nashville, TN (September 4-5, 1997)

SUDAAN Training course. Analysis of statistical data from complex sample surveys. The University of Maryland. January 1995.

Histopathobiology of Neoplasia. The Edward A. Smuckler Memorial Workshop. The Keystone Colorado Conference Center. Keystone, Colorado. June 23-30, 1990.

### *Dissertation and Thesis.*

**Browning SR.** Polychlorinated biphenyl exposure and cancer mortality in electric utility workers. PhD dissertation. Department of Epidemiology. The University of North Carolina at Chapel Hill. Chapel Hill, NC (May 1994)

**Browning SR.** Occupational stress and hypertension among Blacks in the Pitt County Hypertension Project: Job future ambiguity and hypertension. Unpublished master's thesis. Department of Epidemiology. The University of North Carolina at Chapel Hill. Chapel Hill, NC (December 1989)