

Wayne T. Sanderson, Ph.D., CIH

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I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Education

<u>Institution</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
University of North Carolina, Chapel Hill, North Carolina	Epidemiology	Ph.D.	1997
Central Missouri State University, Warrensburg, Missouri	Industrial Hygiene	M.S.	1978
University of Missouri, Columbia, Missouri	Biology	B.A.	1976

B. Professional and Academic Positions

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Professor	4/2020-Present	Biosystems and Agricultural Engineering Department, College of Agriculture, Food, and the Environment University of Kentucky, Lexington, Kentucky
Director	07/2012-Present	Central Appalachian Regional Education Research Center – University of Kentucky and Eastern Kentucky University
Director	08/2017-Present	Southeast Center for Agricultural Health and Injury Prevention, The University of Kentucky, Lexington, Kentucky
Professor	1/2017-3/2020	Department of Epidemiology and Department of Preventive Medicine & Environmental Health College of Public Health, University of Kentucky Lexington, Kentucky
Deputy Director	12/2009-08/2017	Southeast Center for Agricultural Health and Injury Prevention, The University of Kentucky, College of Public Health, Lexington, Kentucky
Professor and Chair	12/2009-06/2014 01/2016-12/2016	University of Kentucky, College of Public Health, Department of Epidemiology, Lexington, Kentucky

Interim Dean	07/2014-12/2015	University of Kentucky, College of Public Health Lexington, Kentucky
Professor	12/2009-Present	University of Kentucky, College of Public Health, Department of Preventive Medicine, Lexington, Kentucky
Adjunct Professor	01/2010-Present	The University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, Iowa
Interim Director of Graduate Studies	07/2012-09/2013	PhD Epidemiology and Biostatistics Training Program, College of Public Health, University of Kentucky
Professor	3/09-12/2009	The University of Iowa, College of Public Health, Department of Occupational and Environmental Health, Iowa City, Iowa
Professor	3/09-12/2009	The University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, Iowa
Associate Professor	8/02-3/2009	The University of Iowa, College of Public Health, Department of Occupational and Environmental Health, Iowa City, Iowa
Associate Professor	8/03-3/2009	The University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, Iowa
Director	8/02-11/2009	Great Plains Center for Agricultural Health, The University of Iowa, College of Public Health, Iowa City, Iowa
Director	7/04-11/2009	The University of Iowa, Heartland Center for Occupational Health & Safety, Industrial Hygiene Core
Core Co-Director	8/04-11/2009	The University of Iowa, Environmental Health Sciences Research Center, Environmental Modeling & Assessment Facility
Section Chief	2/97-8/2002	Industrial Hygiene Section, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, Ohio
Senior Research Industrial Hygienist –Epidemiologist	7/90-2/1997	Industrial Hygiene Section, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, Ohio
Epidemiologist	8/88-7/1990	Epidemiology Section, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, Ohio

Team Leader and Coordinator	9/87-8/1988	Health Hazard Evaluation Activity, Clinical Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, West Virginia
Epidemiologist/ Industrial Hygienist	6/83-8/1984 and 7/86-9/1987	Clinical Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, West Virginia
Instructor	8/80-5/1988	Occupational Safety and Health Department, Division of Engineering Technology, Fairmont State College, Fairmont, West Virginia
Industrial Hygienist	6/78-6/1983	Environmental Investigation Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, West Virginia

Certification/Licensure

<u>Board</u>	<u>Date</u>
American Board of Industrial Hygiene Certified Industrial Hygienist – Certification #3652	1987-Present

C. Honors, Awards, Recognitions, Outstanding Achievements

<u>Year</u>	<u>Title</u>
April 2019	Alice Hamilton Award Honorable Mention for Excellence in Occupational Safety and Health – Exposure and Risk Assessment
April 2019	UK-CARES and Center for Excellence in Rural Health Nominee for 2019 Community Engagement Award, Martin County Concerned Citizens
May 2017	Golden Apple Award from the University of Kentucky, Student Public Health Association
Sept 2016	Fellow Center for Interprofessional Health Education for scholarly contributions to interprofessional education. University of Kentucky.
Aug 2016	Faculty Fellow – University of Kentucky, Faculty Fellows Program
May 2013	Lila Albin Award (AIHA) for the best IEQ paper of 2012: Matthew J. Lozier, Brian Curwin, Marcia G. Nishioka, Wayne Sanderson : “Determinants of Atrazine Contamination in the Homes of Commercial Pesticide Applicators across Time”
Oct 2012	Inducted Honorary Member University Central Missouri Safety Sciences Rho Sigma Kappa Honor Society
Apr 2011	Inducted as a Member of the Delta Omega Honorary Society in Public Health

- Jun 2007 Alice Hamilton Award for Best Scientific Paper, National Institute for Occupational Safety and Health. Hanley K, Petersen M, Curwin B, **Sanderson W.** (2006): Urinary bromide and breathing zone concentrations of 1-bromopropane from workers exposed to flexible foam spray adhesives. *Ann Occup Hygiene* 50(6): 599-607.
- May 2004 Publication (Calvert GM, Rice FL, Boiano JM, Sheehy JW, **Sanderson WT.** Occupational silica exposure and risk of various diseases: an analysis using death certificates from 27 states of the United States. *Occup Environ Med* 2003; 60:122-129.) Nominated for the Charles Shepard Award for Best Scientific Publication by CDC employee.
- Feb 2003 Cummings Award for contribution on the World Trade Center and Anthrax response efforts: award sponsored by The Society of American Military Engineers.
- Feb 2003 Publication: (Sanderson et al. Surface sampling methods for *Bacillus anthracis* spore contamination. *Emerg Infect Dis* 2002; 8(10):1145-1151.) Nominated for the Charles Shepard Award – Best Scientific Publication by CDC employee.
- Jan 2003 Outstanding Service Medal (PHS)
- Sep 2002 Outstanding Unit Citation (PHS)
- Jun 2002 Awarded Best in Session and Runner-up Best in Conference honors, American Industrial Hygiene Conference, San Diego, California – Poster, “Intervention to Control Take-Home Beryllium Exposures of Machine Shop Workers.”
- Apr 2002 Crisis Response Service Award (PHS)
- May 1998 Awarded Best in Session and Runner-up Best in Conference honors, American Industrial Hygiene Conference, Atlanta, Georgia – Poster, “Beryllium Contamination Inside Machine Shop Workers’ Vehicles.”
- Apr 1998 Commendation Medal (PHS)
- Oct 1996 Commendation Medal (PHS)
- May 1996 Nominated for the USPHS Clinical Society Investigator Award “Biological Monitoring of Commercial Pesticide Applicators for Urine Metabolites of the Herbicide Alachlor.”
- May 1996 Nominated for the USPHS Clinical Society Investigator Award “Exposure of Commercial Pesticide Applicators to the Herbicide Alachlor.”
- Jun 1995 Unit Commendation (PHS)
- Oct 1994 Unit Commendation (PHS)
- Apr 1994 PHS Citation
- Feb 1993 PHS Citation
- Aug 1983 PHS Citation

- Sep 1982 Regular Corps (PHS)
- Jul 1981 Special Assignment Award (PHS)
- Apr 1978 Outstanding Graduate Student, Department of Safety and Industrial Hygiene,
Central Missouri State University

II. TEACHING

A. Teaching Assignments

Courses at the University of Kentucky in which Instructor or Co-Instructor

Course	Hours	Semester
Disease Detectives – Epidemiology in Action (CPH 310)	3	Fall 2012; Fall 2013
Population Health and Crisis Management (CPH 351)	3	Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020
Epidemiology (CPH 605)	3	Sum 2011; Sum 2012
Interprofessional Teamwork in Global Health (CPH 510)	3	Spr 2016; Spr 2017; Spr 2018; Spr 2019
Epidemiology (CPH 605); Research Methods and Epidemiology PA Studies (PAS 610)	3	Sum 2016
Capstone Research (CPH 608)	3	Fall 2011; Fall 2012; Fall 2016
Infectious Disease Epidemiology (CPH 612)	3	Fall 2013; Fall 2014; Fall 2015; Fall 2016
Occupational-Environmental Epidemiology (CPH 617)	3	Spr 2010; Fall 2018
Occupational Health (CPH 620)	3	Spr 2014; Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020
Occupational Safety and Health Field Studies (CPH 698)	3	Spr 2014; Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020
Chronic Disease Epidemiology (CPH 711)	3	Spr 2011; Spr 2012; Spr 2013; Spr 2014; Spr 2016; Spr 2017; Spr 2018
Advanced Epidemiology (CPH 712)	3	Spr 2011
Epidemiologic Study Design (CPH 714)	3	Fall 2010; Fall 2011; Fall 2012
Advanced Research Methods (CPH 715)	3	Spr 2011; Fall 2013
Proseminar: Occupational Health and Safety (CPH 716)	1	Fall 2013; Fall 2014; Fall 2015; Fall 2016; Fall 2017; Fall 2018; Fall 2019; Spr 2020
Health of Agricultural Populations (CPH 720)	3	Fall; 2014; Fall 2015; Fall 2016; Fall 2017; Fall 2019
Doctoral Seminar (CPH 786)	1	Fall 2010; Fall 2011
Clinical Decision Making (MDS 811)	1	Sum 2011; Sum 2012
Research Methods Epidemiology (CPH 995)	3	Spr 2011

Courses at the University of Kentucky in which Visiting Lecturer

Course	Hours	Semester
Design Innovation in Systemic Challenges (ARC 599)	3	Spr 2018
Public Health through Popular Film	3	Spr 2012; Spr 2013; Spr 2014

(CPH 202)		
Disease Detectives – Epidemiology in Action (CPH 310)	3	Spr 2017; Fall 2018
A Sick World – Global Public Health (CPH 476)	3	Fall 2018
Public Health Violence, Crime and Forensic Epidemiology (CPH 565)	3	Fall 2018
Overview of Healthcare Delivery (HA 601)	3	Fall 2011
Environmental Health (CPH 602)	3	Spr 2010; Spr 2011; Spr 2012; Spr 2013
Cancer Epidemiology (CPH 615)	3	Fall 2012; Fall 2013; Fall 2014; Fall 2014; Fall 2015; Fall 2016; Fall 2017
Response to Terrorism and Disaster (CPH 662)	3	Fall 2011; Fall 2012; Fall 2013; Fall 2014; Fall 2015; Fall 2016; Fall 2017; Fall 2018; Fall 2019
Public Health Practice and Administration (CPH 663)	3	Fall 2011; Fall 2012; Fall 2013; Fall 2014; Fall 2015; Fall 2016
Epidemiologic Study Design (CPH 714)	3	Spr 2013; Spr 2014; Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020
Public Health Biology (CPH 718)	3	Fall 2010
Agricultural Safety and Health (CPH 729)	3	Spr 2010
Global Public Health (CPH 751)	3	Fall 2011; Fall 2012
Ethics in Public Health (CPH 763)	3	Fall 2015; Fall 2016; Fall 2017
Seminar Environmental Health (CPH 921)	3	Spr 2011; Spr 2012; Spr 2013
Kentucky Master Naturalist (NRE 390)	3	Fall 2018; Fall 2019

Courses at the University of Iowa in which Lead Instructor or Co-Instructor

Course	Hours	Semester
Occupational Health (175:230)	3	Fall 2002; Fall 2003; Fall 2004; Fall 2005; Fall 2006; Fall 2007; Fall 2008; Fall 2009
Fundamentals of Industrial Hygiene (175:231)	3	Fall 2002; Fall 2003; Fall 2004; Fall 2005; Fall 2006; Fall 2007; Fall 2008; Fall 2009
Industrial Hygiene II: Evaluation (175:232)	3	Spr 2003; Spr 2004; Spr 2005
Assessing Physical Agents (175:232) Name and content change from Evaluation	3	Spr 2006; Spr 2007; Spr 2008; Spr 2009

Courses at the University of Iowa in which Guest Lecturer

Course	Hours	Semester
Environmental Quality: Science and Technology (044:127)	3	Fall 2005
Health Work and the Environment (044:174)	3	Spr 2004; Spr 2005; Spr 2006; Spr 2007; Spr 2008; Spr 2009
National Hazards (044:197)	3	Spr 2004
Bioterrorism (152:125)	3	Sum 2004
Epidemiology II (173:240)	3	Spr 2006
Research Methods in Disaster Studies (175:175)	3	Spr 2003
Agricultural Health (175:209)	3	Sum 2003; Sum 2004; Sum 2005; Sum 2006; Sum 2007; Sum 2008; Sum 2009
Current Topics in Agricultural Health (175:210)	1	Spr 2003; Spr 2004; Spr 2005; Spr 2006; Spr 2007; Spr 2008; Spr 2009
Occupational/Environmental Epidemiology (175:220)	3	Spr 2007
Aerosol Technology (175:221)	3	Fall 2005; Fall 2006; Fall 2007; Fall 2008; Fall 2009
Developmental Biochemistry (99) Drake University	3	Spr 2005
Environmental Health Policy Nov Gorica University – Slovenia	3	Spr 2008

Courses Taught as Instructor before Becoming Academic Faculty

Course	Hours	Semester
Fundamentals of Industrial Hygiene Fairmont State University – Fairmont, WV	3	Fall 1979; Fall 1980; Fall 1981; Fall 1982; Fall 1983; Fall 1986; Fall 1987
Industrial Hygiene Laboratory Fairmont State University – Fairmont, WV	3	Spr 1987; Spr 1988
Occupational Safety Fairmont State University – Fairmont, WV	3	Fall 1986
Epidemiology and Biostatistics Fairmont State University – Fairmont, WV	3	Spr 1987; Spr 1988
Occupational Epidemiology – Graduate Assistant University of North Carolina – Chapel Hill, NC	3	Spr 1986

B. Students Advised – Thesis, Dissertation, or Capstone

Name	Degree	Graduation
Michael Bowen	MPH – Environmental Health	
Mira Mirzaian	MPH – Epidemiology	
Caitlin Shilan	MPH – Epidemiology	
Kaelyn Short	MPH – Environmental Health	
Brooke Spillman	MPH – Environmental Health	
Paul Norrod	DrPH – Epidemiology	
Kristen Van Buren	DrPH – Epidemiology	

Eric Wilson	DrPH – Epidemiology	
Michelle Arnold	PhD – Epidemiology/Biostatistics	
Monica Cipriani	PhD – Epidemiology/Biostatistics	
John Flunker	PhD – Epidemiology/Biostatistics	
Brian Kovacic	PhD – Epidemiology/Biostatistics	
Quincy Bascombe	MPH – Environmental Health	May 2020
Robin Thompson	DrPH – Epidemiology	Dec 2019
Quantez Crowe	MPH – Epidemiology	Aug 2019
Courtney Marshall	MPH – Epidemiology	Aug 2019
Ken Alea	MPH – Environmental Health	Aug 2019
Beverly May	DrPH – Epidemiology	Aug 2019
Paul Bellamy	MPH – Environmental Health	May 2019
Dannette Cook	MPH – Environmental Health	May 2019
Michelle Arnold	MPH – Epidemiology	Dec 2018
Lacy Jinks	MPH – Environmental Health	Aug 2018
Annie Marcum	MPH – Epidemiology	Aug 2018
Elizabeth Pickett	MPH – Environmental Health	Aug 2018
Hannah Free	MPH – Epidemiology	May 2018
Kyle Hancock	MPH – Environmental Health	May 2018
Zilahatou Tohon	DrPH - Epidemiology	Dec 2017
Asma Kamur	MPH – Epidemiology	Dec 2017
Holly Trucks	MPH – Environmental Health	Dec 2017
Neil Horsley	MPH – Epidemiology	Aug 2017
April Ballard	MPH – Environmental Health	May 2017
Peter Van Wie	MPH – Environmental Health	May 2017
Virginia Valentin	DrPH – Epidemiology	May 2017
Sarah Morris	PhD – Epidemiology/Biostatistics	May 2017
Molly Reese	MPH – Environmental Health	Dec 2016
Devon Collins	MPH – Environmental Health	May 2016
Caroline Holsinger	DrPH – Epidemiology	May 2016
Logan Ray	MPH – Epidemiology	May 2016
Kady Rogers	MPH – Environmental Health	May 2016
Miriam Siegel	DrPH – Epidemiology	May 2016
Charlene Siza	MPH – Epidemiology	May 2016
Jennifer Walch	MPH – Epidemiology	May 2016
Stephanie Courtney	MPH – Epidemiology	Aug 2015
Leonard Gordon	PhD – Epidemiology-Biostatistics	Aug 2015
David Bardach	PhD – Epidemiology	May 2015
Kasandra Lambert	MPH – Environmental Health	May 2015
Ashley Comiford	DrPH – Epidemiology	Dec 2014
Sara Reilly	MPH – Epidemiology	Aug 2014
Heather Flanagan	MPH – Epidemiology	May 2014
Evelyn Thomas	MPH – Epidemiology	May 2014
Samah Hayek	DrPH – Epidemiology	Dec 2013
Amanda Wiggins	PhD – Epidemiology	Dec 2013
Mahri Bahati	MPH – Epidemiology	Aug 2013
Ibitola Asaulo	MPH – Epidemiology	May 2013
Raymond Hicks	MPH – Environmental Health	May 2013
Tim Crawford	PhD – Epidemiology-Biostatistics	Dec 2012
Alan Echt	DrPH – Epidemiology	Dec 2012
Chris Futopolus	MPH – Environmental Health	Dec 2012
Laura Atchison	MPH - Epidemiology	Aug 2012
Alison Palumbo	MPH – Epidemiology	Aug 2012
Dinesh Poudyal	MPH – Epidemiology	Aug 2012

Emanuel Otsin	MPH – Environmental Health	May 2012
Brian Pavilonis	PhD – Industrial Hygiene	May 2012
Juan Ypes	DrPH – Epidemiology	Aug 2011
Michael Humann	PhD – Industrial Hygiene	May 2011
Katharina Kehl	MPH – Epidemiology	Dec 2010
Matthew Lozier	PhD – Occupational Environmental Health	Dec 2010
Javier Santalla	MS – Industrial Hygiene	May 2009
Kerry Krause	MS – Industrial Hygiene	May 2009
Krista Scott	MS – Industrial Hygiene	May 2008
Vijay Golla	PhD – Industrial Hygiene	Dec 2007
Lindsay Parker	MS – Industrial Hygiene	May 2007
Matthew Murphy	PhD – Industrial Hygiene	May 2007
Nicole Knapp	MS – Industrial Hygiene	Aug 2006
Angela Dix	MS – Industrial Hygiene	Aug 2005
Jeffrey Miller	MS – Industrial Hygiene	Dec 2004
Joanna Jurewicz	Fogarty Scholar (short-term)	Dec 2004
Pamela Kostle	MS – Industrial Hygiene	May 2004
Jessica Ferrie	MS – Industrial Hygiene	Dec 2003

C. Member of Student Thesis, Dissertation, or Capstone Committee

Name	Degree	Graduation
Dexter Corlett	MPH - Epidemiology	
Gloria Gellin	PhD – Veterinary Science	
Robin Ray	PhD - Nursing	
Alexandra Barnett	MS – Community Leadership Development	
Peter Van Wie	PhD – Toxicology	Dec 2019
Arica Brandford	PhD – Nursing	Aug 2019
Zaynab Al Abdali	MPH – Epidemiology	Aug 2019
Austin Gaunce	MS – Mining Engineering	May 2019
Kevin Mercer	MPH – Epidemiology	Dec 2018
Robert Rice	PhD – Communication and Information	Aug 2018
Maria Politis	DrPH – Epidemiology	May 2018
Robert Orr, MD	MSCRD – Clinical Medicine	Aug 2017
Rachel Dixon	BA – Rhetoric, Gaines Fellow	May 2017
Negash Amsalu	MPH – Environmental Health	May 2017
Juequan Nie	MPH – Epidemiology	May 2017
Gary Owen	MPH – Epidemiology	May 2017
Jacob Petrey	MPH – Environmental Health	May 2017
Akosua Adu	DrPH – Epidemiology	Dec 2016
Justine Maxwell	DrPH – Epidemiology	Aug 2016
Daniel Barber	MPH – Epidemiology	May 2016
Nigel Haarstad	PhD – Communications	May 2016
Megan Hofmeister	MPH – Epidemiology	May 2016
Sharon Hunsucker	PhD – Nursing	May 2016
Jia Kangbai	MPH – Epidemiology	May 2016
Michelle Cooper	MPH – Health Behavior	Dec 2015
Azia Routson	MPH – Environmental Health	Aug 2015
Yvette Achuo	MPH – Epidemiology	May 2015
Matina Pilati	MPH – Epidemiology	May 2015
Colleen Roberts	MPH – Epidemiology	May 2015
Michael Singleton	PhD – Epidemiology-Biostatistics	May 2015
Sarah Kim	MPH – Environmental Health	Aug 2014
Amirah Abdullah	DrPH – Epidemiology	May 2014
Amanda Anderson	MPH – Epidemiology	May 2014

Brian Downer	PhD – Gerontology	May 2014
Tyler McGrady	MPH – Epidemiology	May 2014
Hsin-Fang Li	PhD – Epidemiology-Biostatistics	Dec 2013
Sondos Al Saad	MPH – Epidemiology	Dec 2013
Sarbani Ghoshal	MPH – Epidemiology	Dec 2013
Hassan Mousa	MPH – Epidemiology	Dec 2013
Tamara Malm	MPH – Epidemiology	Aug 2013
Govind Warriier	MPH – Epidemiology	Aug 2013
Abby Consentino	DrPH – Epidemiology	Aug 2013
Paige Birkelbach	MPH – Epidemiology	May 2013
Leah Casanave	DrPH – Epidemiology	May 2013
Kofi Diggs	MPH – Epidemiology	May 2013
Katie Webster	MPH – Epidemiology	May 2013
Mohammed Saaed	MPH – Epidemiology	Dec 2012
Meghan Towle	MPH – Epidemiology	Dec 2012
Claudia Valdivieso	MPH – Epidemiology	Dec 2012
Chad Glaser	MPH - Epidemiology	Aug 2012
Harprya Kaur	MPH – Epidemiology	Aug 2012
Sunny Chanthavongsa	MPH – Epidemiology	May 2012
Amanda Okolo	MPH – Epidemiology	May 2012
Joyce Robl	EdD – Kinesiology and Health Promotion	May 2012
Robert Wells	MPH – Epidemiology	May 2012
Gavin King	MS – Environmental Health (Dalhousie University Reader)	Dec 2011
Wei Deng	MPH – Biostatistics	Aug 2011
Charlotte Baker	DrPH – Epidemiology	May 2011
Lori Craig	MPH – Epidemiology	May 2011
Keisha Houston	DrPH – Epidemiology	May 2011
Marek Mikulski	PhD – Occupational and Environmental Health	May 2011
Debra Bahr	DrPH – Environmental Health	Dec 2010
Gloria Gellin	MPH – Epidemiology	Dec 2010
Sarah Starks	PhD – Epidemiology	Dec 2010
Donna Vosburgh	PhD – Industrial Hygiene	Dec 2010
Jennifer Marcum	DrPH – Epidemiology	May 2010
Alysha Meyers	PhD – Ergonomics	May 2010
Carrissa Rocheleau	PhD – Epidemiology	Dec 2009
William Cyrs	MS – Industrial Hygiene	May 2009
Mitchell Kang	MPH – Environmental Health	May 2009
Nor Ramah Nor Hashim	MS – Industrial Hygiene	Dec 2008
Carlos Sanchez Marin	MS – Ergonomics	Aug 2008
Ian Poole	MS – Industrial Hygiene	May 2008
Darrin Ott	PhD – Industrial Hygiene	Aug 2007
Adam Riss	MS – Industrial Hygiene	Aug 2007
Joey Michael	MS – Industrial Hygiene	May 2007
Ashish Patel	MS – Industrial Hygiene	May 2007
Scott Collingwood	PhD Industrial Hygiene	Dec 2006
Katarina Kulhankova	PhD – Environmental Health	Dec 2006
Brian Curwin	PhD – Industrial Hygiene University of Utrecht, The Netherlands	Oct 2006
Joung Ae Lee	PhD – Industrial Hygiene	May 2006
Matthew Nonnenmann	PhD – Industrial Hygiene	Dec 2005
Rex Kuye	PhD – Environmental Health	Dec 2005
Ebonice Cason	MPH – Environmental Health	May 2005
Linda Anneling	PhD – Environmental Health	Dec 2004

D. Other Contributions to Institutional Programs

Institutional Conferences, Grand Rounds, Journal Club

<u>Date</u>	<u>Title</u>	<u>Location</u>
2020	Agricultural Health and Safety Risks (Mar. 6)	Department of Plant and Soil Science, College of Agriculture, Food, and the Environment, University of Kentucky
2019	Personal Sampling for Hazardous Exposures Occupational Medicine Grand Rounds (Feb. 28)	College of Public Health – University of Kentucky
2018	Interprofessional Collaboration to Solve Public Health Problems – Example Ecuador Water Study	Area Health Education Center – Summer Camp; University of Kentucky
2017	Ionizing Radiation Hazards – Preventive and Occupational Medicine Grand Rounds (Oct. 6)	College of Public Health – University of Kentucky
2017	Non-Ionizing Radiation Hazards – Preventive and Occupational Medicine Grand Rounds (Aug. 4)	College of Public Health – University of Kentucky
2016	Noise Induced Hearing Loss – Preventive and Occupational Medicine Grand Rounds (Nov. 4)	College of Public Health – University of Kentucky
2015	Ebola: Outbreak Prevention - What we are Doing in the U.S. (October 29)	Donovan Scholars - Life Long Learning Program, Alumni Center – Lexington, KY
2014	Injuries from Farm Animals (January 22)	Central Appalachian Regional Educational Research Center - University Kentucky
2013	Speed Networking – Job Interviewing Practice and Evaluation (April 26)	College of Public Health – University of Kentucky
2012	Confined Animal Operations and Child Asthma (February 3)	Grand Rounds – University of Kentucky – College of Public Health Lexington, Kentucky
2011	Injuries from Farm Animals (July 2011)	Kentucky Occupational & Environmental Medicine Association; Lexington, Kentucky
2010	Nutrition—the Overlooked Confounder and Effect Modifier in Occupational and Environmental Disease Studies (Dec 2)	Workshop: Nutrition and Superfund Chemical Toxicity: Implications in Risk Assessment; University of KY Superfund Research Program Lexington, Kentucky
2010	6X5X5 Power Presentations Epidemiology Department Projects (Nov 12)	6X5X5 Power Presentations College of Public Health University of Kentucky
2010	Child Asthma and Agricultural Exposures (Mar 26)	Grand Rounds – University of Kentucky – College of Public Health Lexington, Kentucky

2008	How to Write a Pilot Grant (Feb 21)	Regional Partners – Elluminate Course, Great Plains Center for Agricultural Health Iowa City, Iowa
2005	Controlling Pesticide Exposure (Apr 1)	7 th Annual Occupational Health Symposium – New Dimensions in Health and Safety Iowa City, Iowa
2005	Overview of the Great Plains Center for Agricultural Health (Jan 18)	Department of Occupational and Environmental Health Seminar College of Public Health, The University of Iowa Iowa City, Iowa
2004	Preventing Tractor Overturns (Nov 11)	Keokuk County Rural Health Study Executive Advisory Committee Meeting Sigourney, Iowa
2004	Tractor Safety Concerns and Safe Use of Pesticides (May 4)	Keokuk County Rural Health Study Executive Advisory Committee Meeting, Sigourney, Iowa
2003	Hazardous Harvest: Farm Machinery Injuries and Fatalities (Apr 22)	The University of Iowa, Occupational Medicine Dinner Meeting Iowa City, Iowa
2003	Bioterrorism: Report on the U.S. Postal Service Anthrax Investigation (Apr 4)	5 th Annual Occupational Health Symposium – Taking Health and Safety to a New Dimension Iowa City, Iowa
2003	Detecting Agents of Bioterrorism: An Overview of Environmental Sampling Techniques (Mar 13)	Grand Round Series Center for Public Health Practice The University of Iowa Iowa City, Iowa
2002	Take-Home Pesticide Exposures of Farm Families (Dec 12)	Agricultural Health Study Conference Iowa City, Iowa

Continuing Education Course Presentations

<u>Year</u>	<u>Title</u>	<u>Location</u>
2019	Vector-borne Diseases among Farmers and Agricultural Workers – Kentucky Occupational Environmental Medicine Association (Mar 2)	Lexington, Kentucky
2018	Exposure Assessment Strategies (May 9)	Kentucky Governor’s Safety Conference – Bowling Green, KY
2017	Proper Selection of Respirators for Hazardous Environments (May 10)	Kentucky Governor’s Safety Conference – Covington, KY

2009	Health Physics for Certified Hearing Conservationists	Council for Accreditation in Occupational Hearing Conservation Iowa City, Iowa
2009	Exposure Assessment Strategies	11 th Annual Occupational Health Symposium Iowa City, Iowa
2008	Proper Use of Respirators to Protect Workers	Missouri Occupational Health Nurses Conference St. Genevieve, Missouri
2008	Principles of Occupational Epidemiology	American Industrial Hygiene Association Pre-conference Course Minneapolis, Minnesota
2008	Health Physics for Certified Hearing Conservationists	Council for Accreditation in Occupational Hearing Conservation Iowa City, Iowa
2008	The Facts About Mold	10 th Annual Occupational Health Symposium Iowa City, Iowa
2007	Principles of Occupational Epidemiology	American Industrial Hygiene Association Pre-conference Course Philadelphia, PA
2007	Health Physics for Certified Hearing Conservationists	Council for Accreditation in Occupational Hearing Conservation Iowa City, Iowa
2006	Respirators: What You Need to Know to Protect Farm Workers	Midwest Rural Agricultural Safety and Health Forum Iowa City, Iowa
2006	Principles of Occupational Epidemiology	American Industrial Hygiene Association Pre-conference Course Chicago, Illinois
2006	Pre-Symposium Course: Occupational Epidemiology	8 th Annual Occupational Health Symposium – “Taking Health and Safety to a New Dimension” Iowa City, Iowa
2006	Health Physics for Certified Hearing Conservationists	Council for Accreditation in Occupational Hearing Conservation Iowa City, Iowa
2005	Principles of Occupational Epidemiology	Portland Cement Association Health and Safety Committee, St. Louis, MO
2005	Implications for Industrial Hygiene in Occupational Nursing	American Association of Occupational Health Nurses, Minneapolis, MN

2005	Health Physics for Certified Hearing Conservationists	Council for Accreditation in Occupational Hearing Conservation Iowa City, Iowa
2004	Implications for Industrial Hygiene in Occupational Health Nursing	American Association of Occupational Health Nurses, Kansas City, MO
2004	Proper Selection and Use of Respiratory Protection	6 th Annual Occupational Health Symposium – “Taking Health and Safety to a New Dimension” Iowa City, Iowa
2003	The Facts About Mold	5 th Annual Occupational Health Symposium – “Taking Health and Safety to a New Dimension” Iowa City, Iowa
2003	Terror as an Occupational Hazard	School of Public Health Dean’s Forum University of Illinois Chicago, Illinois
2002	Respirator Fit Testing	WorkSafe Iowa Fall Meeting Dubuque, Iowa
1995	Commissioned Officers Orientation Course	Cincinnati, Ohio

E. Course Materials Developed

The University of Kentucky

Disease Detectives: Epidemiology in Action (CPH 310): Designed an undergraduate epidemiology course to integrate biostatistics, biology, chemistry, and physics in the investigation of the causes of diseases and prevention measures.

MPH Capstone Research (CPH 608): Created a course that guides students towards initiation of a capstone research project. Students develop a research question and learn how to evaluate the literature and design research methods towards exploring that question. By the end of the course students are expected to have a research topic and database, and are assigned an advisor.

Infectious Disease Epidemiology (CPH 612): Revised the lecture content, increased the number of homework exercises and case studies, and added exercises on infectious disease study design and evaluation of epidemiology literature concerning infectious disease causation.

Occupational and Environmental Epidemiology (CPH 617): Revised the lecture content, increased the number of homework exercises, and added exercises on study design and evaluation of epidemiology literature concerning disease causation.

Occupational & Environmental Health (CPH 620): Developed lectures and homework exercises on exposure assessment and occupational and environmental diseases.

Occupational Field Studies (CPH 698): Conduct walk-through field surveys of a wide variety of industries, complete exercises, and hazard analyses.

Chronic Disease Epidemiology (CPH 711): Developed lecture content including information on a great number of chronic diseases and developed a set of homework exercises associated with each lecture.

Epidemiology Study Design (CPH 714): In collaboration with Dr. Steven Browning, developed a new course to prepare doctoral level students to design epidemiologic studies, manage and analyze data, and present results.

Advanced Epidemiology Research Methods (CPH 715): Developed a new course to prepare doctoral level students to conduct epidemiologic studies, manage and analyze data, interpret and present results. The final product for the course is a manuscript submitted for publication in the peer-reviewed literature.

Health and Safety of Agricultural Populations (CPH 720): Created a course to support the Agricultural Health and Safety Core of the Education Research Center training students about the health and safety hazards faced by agricultural and rural populations.

Doctoral Seminar (CPH 786): Developed colloquium sessions to supplement the Epidemiology and Biostatistics core curriculum, discuss current research, and enhance student writing and oral skills.

Doctoral Seminar in Research Methods (CPH 995): Designed the curriculum to instruct students on how to write a research proposal. The purpose of the final proposal (submitted for grading) was for it to serve as the first chapters of the students' capstone projects. Students were required to orally present their study design and submit an NIH formatted research proposal as the final product for the course.

The University of Iowa

Industrial Hygiene 1: Recognition (175:231): Developed the lecture content, homework exercises, and included instruction on aerosol science, biomonitoring, and bioaerosols.

Fundamentals of Industrial Hygiene (175:231): Developed course content to comprehensively cover a broad range of industrial hygiene topics.

Industrial Hygiene 2: Evaluation (175:232): Increased the number of laboratory exercises from eight to fourteen and revised the course content.

Assessing Physical Agent Hazards (175:232): Developed course on evaluating and controlling noise, temperature, pressure, nonionizing radiation, and ionizing radiation hazards.

Occupational Health (175:230): Increased the number of industrial hygiene lectures from five to nine and developed homework exercises and examination in association with these lectures.

Health Physics for Occupational Hearing Conservationists: Developed 3 hours of instruction on health physics for the Certified Occupational Hearing Conservationist course which is taught through the College of Nursing.

Facts About Mold: Along with four other instructors, developed a course on evaluating workplace exposures and potential health effects from mold and provided guidance on remediation of mold contamination; this course was a one-day continuing education course for the Heartland Center for Occupational Health and Safety (March 2003).

Workshop on Agroterrorism: Developed instructional materials and presented a one-day workshop on agroterrorism which was hosted by the University of Texas; the workshop was conducted via multiple-site conferencing to locations in several Midwestern and Southern states (January 2004).

Selecting Proper Respiratory Protection: Along with three other instructors, developed a course on selecting proper respiratory protection for various occupational situations; this course was a one-day continuing education course for the Heartland Center for Occupational Health and Safety (March 2004).

Course materials developed for courses taught outside The University of Iowa and the University of Kentucky:

University of Zulia, Maracaibo, Venezuela: Developed and taught 2-week training course on evaluating and controlling hazards in Portland cement plants and coal mines (June 1981).

Fairmont State University: Developed course curriculum and taught lecture and lab courses concerning industrial hygiene, occupational safety, ergonomics, epidemiology and statistics. Established training program between NIOSH and Fairmont State College which provided students with experience conducting field surveys and laboratory experiments (1980-1988).

University of North Carolina: Developed lectures and laboratory exercises for occupational epidemiology course for School of Public Health graduate students (1986).

American Industrial Hygiene Association: Developed continuing education course entitled Pesticide Exposure Assessment for presentation at professional meeting (1991-1992).

American Industrial Hygiene Association: Developed continuing education course entitled Occupational Epidemiology for presentation at professional conferences (1993-1994).

South Africa: Developed materials and presented training course entitled Health and Safety Concerns Associated with Pesticide Exposures to health and safety professionals in Johannesburg and Durban, South Africa (1999).

Industrial Hygiene for Nurses: Developed a one-day continuing education course on the principles of industrial hygiene which was taught at the American Association of Occupational Health Nurses conference in Kansas City, Missouri (May 2004) and Minneapolis, Minnesota (May 2005).

Portland Cement Association: Developed continuing education course entitled Principles of Occupational Epidemiology for presentation to Portland Cement Health and Safety Committee (Oct 2005).

Occupational Epidemiology: Developed continuing education course for presentation to nurses, physicians, physician assistants, industrial hygienists, and safety professionals of various venues. (March/May 2006; June 2007; June 2008)

Visiting Professorships

<u>Year</u>	<u>Location</u>
2019	Research Skills Training in Public Health – Establishing a Masters of Public Health Program U.S. State Department Guest Speakers Program, University of Liberia, Monrovia, Liberia

- 1999 Health and Safety Concerns Associated with Pesticide Exposures
National Institute for Occupational Health
Johannesburg, South Africa
- 1999 Health and Safety Concerns Associated with Pesticide Exposures
University of KwaZulu Natal
Durban South Africa
- 2004 Development of Industrial Hygiene Training Curriculum for South Africa
University of KwaZulu Natal
Durban, South Africa

III. SCHOLARSHIP

A. Publications or Creative Works

Peer-Reviewed Papers

1. Boiano J, Silver S, Tsai R, **Sanderson W**, Liu S, Whitehead L (2020): Development of Job Exposure Matrices to Estimate Occupational Exposure to Solar and Artificial Ultraviolet Radiation. *Annals of Work Exposure and Health* (in Press).
2. **Sanderson W**, Mazur J, Vincent S, Byrd A (2020): Editorial: Response to "ROPS Are Not Homemade." *J Agric Saf Health* 26(1):1-4. DOI:10.13031/jash.13723.
3. Santiago-Colon A, Rocheleau C, Chen I, **Sanderson W**, Waters M, Lawson C, Langlois P, Cragan J, Reefhuis J (2020): Association between Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and Rare Birth Defects of the Face and Central Nervous System. *Birth Defects Research* 112:404-417 DOI:10.1002/bdr2.1643.
4. Adu A, Brown S, Asaolu I, **Sanderson W** (2019): Understanding Suicide in Pregnant and Postpartum Women, Using the National Violent Death Reporting System Data: Are There Differences in Rural and Urban Status? *Journal of Obstetrics and Gynecology* 9:547-565.
5. Yaffee A; Scott B, Kaelin C, Cambron J, **Sanderson W**, Christian W, Moran T, Chamness J (2019): Collaborative Response to Arsenic-Contaminated Soil in an Appalachian Kentucky Neighborhood. *J Toxicol Environ Health* 82(12):697-701.
6. McCanlies E, Gu J, Shi M, Kashon M, Yucesoy B, Ma C, **Sanderson W**, Ludena-Rodriguez Y, Hertz-Picciotto I (2019): The CHARGE Study: An Assessment of Parental Occupational Exposures and Autism Spectrum Disorder *Occupational Environmental Medicine* 76:644-651 (doi:10.1136/oemed-2018-105395).
7. Unrine J, Slone S, **Sanderson W**, Johnson N, Durbin E, Shrestha S, Hahn E, Huang B, Feltner F, Huang B, Christian J, Mellon I, Orren D, Arnold S (2019): A Case-Control Study of Trace Element Stratus and Lung Cancer in Appalachia Kentucky. *PLoS ONE* 14(2):e0212340. <https://doi.org/10.1371/journal.pone.0212340>.
8. Lee T, Echt A, Cauda E, Thorpe A, Tipton L, **Sanderson W** (2018): Laboratory Comparison of New High-Flow Rate Respirable Size-Selective Sampler. *J Occ Environ Hygiene* 15(10):755-765.
9. Baker C, Browning S, Charnigo R, Bunn T, **Sanderson W** (2018): Factors Related to Return to Play After Knee Injury in High School Football Athletes. *Annals Epidemiology* 28:629-634.
10. Valentin V, **Sanderson W**, Durbin E, Westneat S (2018): Late Stage Melanoma: Be Sure to Screen Unmarried, Uninsured Men. *Southern Medical Journal* 111(11):649-653.
11. Mannino D, **Sanderson W** (2017): Using Big Data to Reveal Chronic Respiratory Disease Mortality Patterns and Identify Potential Public Health Interventions. *Journal of American Medical Association* 318(12):1112 doi:10.1001/jama.2017.11746
12. Siegel M, Starks S, **Sanderson W**, Kamel F, Hoppin J, Gerr F (2017): Organic Solvent Exposure and Depressive Symptoms among Licensed Pesticide Applicators in the Agricultural Health Study. *International Archives of Occupational and Environmental Health* 90(8):849-857. <https://doi.org/10.1007/s00420-017-1245-8>.

13. Gan W, **Sanderson W**, Browning S, Mannino D (2017): Different Types of Housing and Respiratory Health Outcomes. *Preventive Medicine Reports* 7:124-129.
14. Reilly S, **Sanderson W**, Christian WJ, Browning S (2017): Geographical Clusters and Predictors of Rabies in Three Southeastern States. *Vector-Borne and Zoonotic Diseases* 17(6):432-438.
15. Pettigrew S, Bell E, Van Zutphen A, Rochleau C, Shaw G, Romitti P, Olshan A, Lupo P, Soim A, Makelarski J, Michalski D, **Sanderson W** (2016): Paternal and Joint Parental Occupational Pesticide Exposure and Spina Bifida in the National Birth Defects Prevention Study, 1997 to 2002. *Birth Defects Research* 106:963-971.
16. Comiford A, **Sanderson W**, Chesnut L, Brown S (2016): Predictors of Intimate Partner Problem-Related Suicides among Suicide Decedents in Kentucky. *J Inj Violence Res* 8(2):81-87.
17. Echt A, **Sanderson W**, Mead K, Feng A, Farwick D, Ramsey D (2016): Effective Dust Control Systems on Concrete Dowel Drilling Machinery. *J Occup Environ Health* 13(9):718-724.
18. Rocheleau CM, Bertke SJ, Lawson CC, Romitti PA, **Sanderson WT**, Malik S, Lupo PJ, Desrosiers TA, Bell E, Druschel C, Correa A, Reefhuis J (2015): Maternal occupational pesticide exposure and risk of congenital heart defects in the national birth defects prevention study. *Birth Defects Res A Clin Mol Teratol.* 2015 (Jun 2) 103:823-833 doi:10.1002/bdra.23351.
19. Singleton M, **Sanderson W**, Mannino D (2014): Body Mass Index, Asthma, and Exhaled Nitric Oxide in U.S. Adults 2007-2010. *J Asthma* 51(7):756-761.
20. Crawford T, **Sanderson W**, Thornton A (2013): A Comparison Study of Methods for Measuring Retention in HIV Medical Care. *AIDS Behavior* 17(9):3145-3151 DOI 10.1007/s10461-013-0559-0.
21. Crawford T, **Sanderson W**, Thornton A (2013): Impact of Poor Retention on HIV Medical Care on Time to Viral Suppression. *Journal Inter Assoc Providers AIDS Care.* PMID 23761217.
22. Crawford T, **Sanderson W**, Breheny P, Fleming S, Thornton A (2013): Impact of Non-HIV Related Comorbidities on Retention in HIV Medical Care: Does Retention Improve Over Time? *AIDS Behavior* 18(3):617-625 DOI 10.1007/s10461-013-0524-y.
23. Lozier M, Montoya J, Rosario A, Martinez E, Fuortes L, Cook T, **Sanderson W** (2013): Personal Air Sampling and Risks of Inhalation Exposure during Atrazine Application in Honduras. *Int Arch Occup Environ Health* 86:479-488.
24. Humann M, **Sanderson W**, Donham K, Kelly K (2013): Task-Based Exposures for Farmers Involved in Grain Production. *J Agric Safety Health* 19(2):101-113.
25. Pavilonis B, **Sanderson W**, Merchant J (2013): Relative Exposure to Swine Animal Feeding Operations and Childhood Asthma Prevalence in an Agricultural Cohort. *Environ Res* 122:74-80.
26. Pavilonis B, Anthony T, O'Shaughnessy P, Humann M, Merchant J, Moore G, Thorne P, Weisel C, **Sanderson W** (2013): Indoor and Outdoor Particulate Matter and Endotoxin Concentrations in an Intensely Agricultural County. *J Exposure Sci Environ Epidemiol* 23(3):299-305.
27. Browning SR, Westneat SC, **Sanderson WT**, Reed DB (2013): Cattle-Related Injuries and Farm Management Practices on Kentucky Beef Cattle Farms. *J Agric Safety Health* 19(1):37-49.

28. Murphy M, **Sanderson WT**, Birch ME, Liang F, Sanyang E, Cante M, Cook TM, Murphy S (2012): Type and Toxicity of Pesticides Sold for Community Vector Control Use in The Gambia. *Epidemiology Research International* 2012:doi:10.1155/2012/387603.
29. Rocheleau C, Romitti P, Sherlock S, **Sanderson W**, Bell E, Drushel C (2012): Effect of Survey Instrument on Participation in a Follow-up Study: A Randomization Study of a Mailed Questionnaire Versus a Computer-Assisted Telephone Interview. *BMC Public Health* 12:579 doi:10.1186/1471-2458-12-579.
30. McCanlies EC, Fekedulegn D, Mnatsakanova A, Burchfiel CM, **Sanderson WT**, Charles LE, Hertz-Picciotto I (2012). Parental Occupational Exposures and Autism Spectrum Disorder. *Autism and Developmental Disorders*. *J Autism Dev Disord* 42(11):2323-2334 (DOI 10.1007/s10803-012-1468-1).
31. Humann M **Sanderson W** Gerr F Kelly K Moore G Merchant J (2012): Effects of Common Agricultural Tasks on Hearing Loss. *Am J Indust Med* 55:904-916.
32. Hennig B, Ormsbee L, McClain C, Watkins B, Blumberg B, Bachas L, **Sanderson W**, Thompson C, Suk W (2012): Nutrition Can Modulate the Toxicity of Environmental Pollutants: Implications in Risk Assessment and Human Health. *Environ Health Perspect* 120:771-774.
33. Lozier M, Curwin B, Nishioka M, **Sanderson W** (2012): Determinants of Atrazine Contamination in the Homes of Commercial Pesticide Applicators Across Time. *J Occup Environ Health* 9:289-297.
34. Golla V, Curwin B, **Sanderson W**, Nishioka M (2012): Pesticide Concentrations in Vacuum Dust from Farm Homes: Variation between Planting and Non-Planting Seasons. *International Scholarly Research Network (ISRN) Public Health* 2012:doi:10.5402/2012/539397.
35. Rocheleau CM, Romitti PA, **Sanderson WT**, Sun L, Waters MA, Stewart PA, Reefhuis J, Olney RS, Lawson CC (2011): Maternal Occupational Pesticide Exposures and Risks of Hypospadias in the National Birth Defects Prevention Study. *Birth Defects Research (Part A)* 91:927-936.
36. Mikulski M, Hartley P, Sprince N, **Sanderson W**, Lourens S, Worden N, Wang K, Fuortes, L (2011): Risk and significance of chest radiograph and pulmonary function abnormalities in an elderly cohort of former nuclear weapons workers. *J Occup Environ Med* 53(9):1046-1053, September 2011.
37. Kehl K, Findeisen H, Fardo D, Bruemmer D, Mannino M, **Sanderson W** (2011): Race-ethnicity as an Effect Modifier of the Association between Glycated Hemoglobin and Mortality in U.S. Adults without Diagnosed Diabetes. *Europ J Endocrinol* 165:275-281, July 2011.
38. Mikulski M, **Sanderson W**, Leonard S, Sprince N, Hartley P, Field W, Fuortes L (2011): Prevalence of Beryllium Sensitization among Department of Defense (DoD) Conventional Munitions Workers at Low Risk for Exposure. *J Occup Environ Med* 53(3):258-265, Mar 2011.
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41. Charles L, Burchfiel C, Fekedulegn D, Gu J, Petrovitch H, **Sanderson W**, Masaki K, Rodriguez B, Andrew M, Ross W (2010): Occupational Exposure to Pesticides, Metals, and Solvents: The Impact on Mortality Rates in the Honolulu Heart Program. *Work* 37:205-215.

42. Tonelli S, Donham K, Leedom-Larson K, **Sanderson W**, Purschwitz M (2009): Rollover Protective Structures Retrofitting from the Tractor Dealer Perspective. *J Agric Safety Health* 15(4):365-375, Oct 2009.
43. **Sanderson W**, Madsen M. Fatalities Caused by Cattle – Four States, 2003-2008. *MMWR* 58(29):800-804, Jul 2009.
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45. Burgus S, Madsen M, **Sanderson W**, Rautiainen R. Youths operating and riding all-terrain vehicles: Implications for ATV safety education. *J Agromed*. 14(2):97-104, Apr 2009.
46. Ruder A, Butler M, **Sanderson W**, Carreón T, Waters M, Zivkovich Z. The NIOSH Retrospective Pesticide Reference Database. *J Agricul Safety Health*. 15(2):143-156, Apr 2009.
47. **Sanderson W**, Leonard S, Ott D, Fuortes L, Field W. Beryllium Surface Levels in a Military Ammunition Plant. *J Occ Environ Hygiene* 5:475-481, Jul 2008.
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49. Schubauer-Berigan M, Deddens J, Steenland K, **Sanderson W**, Petersen M. Adjustment for Temporal Confounders in a Reanalysis of a Case-Control Study of Beryllium and Lung Cancer. *Occup Environ Med* 65:379-383, Jan 2008.
50. Curwin B, Hein M, **Sanderson W**, Striley C, Heederik D, Kromhout H, Reynolds S, Alavanja M. Pesticide Dose Estimates for Children of Iowa Farmers and Non-Farmers. *Environmental Research* 105:307-315, Nov 2007.
51. Murphy M, **Sanderson W**, Vargo J. Airborne Antibiotic Concentrations in a Swine Feeding Operation. *J Agric Safety Health* 13(4):357-366, Oct 2007.
52. Kuye RA, Donham KJ, Marquez SP, **Sanderson WT**, Fuortes LJ, Rautiainen RH, Jones ML, Culp KR. Pesticide handling and exposures among cotton farmers in the Gambia. *J Agromedicine* 12(3):57-69, Oct 2007.
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55. Kuye R, Donham K, Marquez S, **Sanderson W**, Fuortes L, Rautiainen R. Agricultural health in the Gambia II: A systematic survey of safety and injuries in production agriculture. *Ann Agric Environ Med* 13(1):119-128, Jul 2006.

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57. Hanley K, Petersen M, Curwin BD, **Sanderson WT**. Urinary bromide and breathing zone concentrations of 1-Bromopropane from workers exposed to flexible foam spray adhesives. *Ann Occup Hyg* 50(6):599-607, Jun 2006.
58. Charles LE, Burchfiel CM, Fekedulegn D, Kashon ML, Ross GW, Petrovitch H, **Sanderson WT**. Occupational exposures and movement abnormalities among Japanese-American men: The Honolulu-Asia aging study. *Neuroepidemiology* 26(3):130-139, Mar 2006.
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3. Sanderson W. Preparing for Disasters. *Alive and Well Newsletter*. Vol. 14 Issue 4, (September 2008).
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Books/Monographs/Chapters

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2. Sanderson W. Appendix: The U.S. population-at-risk to occupational respiratory diseases. In: Occupational Respiratory Diseases. Merchant J, editor. Cincinnati, OH: U.S. Dept of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health, Publication Number 86-102, pp 739-759, 1986.

Other

1. Sanderson W, Ward E, Steenland K. Letter to the Editor: Response to criticisms of lung cancer case-control study of beryllium workers. Am J Ind Med 40:286-288, 2001.
2. Sanderson W. Appendix - The U.S. population-at-risk to occupational respiratory disease. In: Occupational Respiratory Diseases. Merchant J, editor. U.S. Department of Health and Human Services - NIOSH, DHHS (NIOSH) Publication No. 86-102, 1986.
3. Castellan R, Sanderson W, Petersen M. Letter to the Editor: Prevalence of radiographic appearance of pneumoconiosis in an unexposed blue collar population. American Review of Respiratory Disease 132(5):1139, 1985.

C. Grants Received

20197002830434 (PI: Roy) (\$240,000/yr) 09/01/2019-03/31/2021

USDA

Southern Region Farm and Ranch Stress Assistance Network

The goal of this network is to provide assistance to farm families in recognizing the risk factors for depression and stress and how to access services to provide support.

Role: Co-Investigator/Center Director (0.24 months; 2%)

T42 OH010278 (PI: Sanderson) (\$1,546,250/yr) 07/01/2019-06/30/2024

CDC/NIOSH

Occupational Safety and Health Training Grant - Education and Research Center (ERC) Central Appalachian Regional Education Research Center

The major goal of the Center is to provide graduate training, continuing education and outreach in occupational safety and health to serve the Central Appalachian Region.

Role: Principal Investigator/Director (4.0 months; 33%)

1P30ES026529-01-Pilot Grant (PI: Unrine) (\$50,000) 05/01/2018–04/30/2019

NIEHS/NIH

Community-Focused Appalachian Drinking Water Health Effects Study

This project creates a model for community engagement in environmental health effects research in rural regions with a focus on assessing water quality provided by a county water system and potential health effects.

Role: Co-Investigator (0.6 months; 5%)

Sustainability Challenge Grant Project (PI: Agouridis) (\$14,257) 01/01/22018-12/31/2018

KY Master Naturalist Program

The mission of the Kentucky Master Naturalist (KNM) program is to develop a community of well-informed citizen-volunteers to advance education, research, and outreach efforts dedicated to the conservation and management of Kentucky's natural resources.

Role: Co-Investigator (0.2 months; 2%)

1P30ES026529-01 (PI:Hahn) (\$1,496,462/yr) 05/01/2017 - 03/31/2022

NIEHS/NIH

Center for Appalachian Research in Environmental Sciences

This Center supports research, outreach, and training and serves as an information source for environmental concerns in the Appalachian region. It addresses emerging health concerns associated with exposure to environmental hazards. The Center partners with communities to decrease exposures and disease risks.

Role: Co-Investigator (1.2 months; 10%)

5 U50 OH007547 (PI: Sanderson) (\$1,450,000/yr) 09/30/2016 - 09/29/2021

CDC/NIOSH

The Center began in 1992

Southeast Center for Agricultural Health and Disease Prevention

The goals of the Center are to conduct a multidisciplinary agricultural health and safety research program to develop novel disease and injury prevention models and evaluate educational, outreach and intervention programs.

Role: Deputy Director of the Center (3.0 months; 25%)

R01ES024771-01 (PI: Browning/Schoenberg) (\$530,500/yr) 05/15/2015-03/14/2020

NIEHS/NIH

Community-engaged Research & Action to Reduce Respiratory Disease in Appalachia

This CBPR project administers a community-engaged survey and environmental assessment to understand the risk factors associated with elevated rates of respiratory disease in Appalachia. Partnering with community organizations, we will employ an RCT to decrease these risk factors.

Wayne T. Sanderson - Curriculum Vitae

July 1, 2020

Role: Co-Investigator (1.2 months; 10%)

T42 OH010278 (PI: Sanderson) (\$1,400,000/yr)
CDC/NIOSH

07/01/2014-06/30/2019

Occupational Safety and Health Training Grant - Education and Research Center (ERC) Central
Appalachian Regional Education Research Center

The major goal of the Center will be to provide graduate training, continuing education and outreach in
occupational safety and health to serve the Central Appalachian Region.

Role: Principal Investigator/Director (3.12 months; 26%)

R03CA179661-01A1 (PI: Chen) (\$50,000/yr)
NCI

05/15/2015-04/30/2017

Statistical Methods for Environmental Data Subject to Detection Limits

This project involves developing unified and efficient nonparametric estimation and testing methods that
can deal with possible correlation between the exposure level and detection limits and incorporate
sampling weights. The project will utilize state-of-the-art methods for censored survival data and tailor
them to environmental exposure data with detection limits. These methods will be applied to data from a
recently conducted colon cancer case-control study in Kentucky, an ongoing lung cancer case-control
study in Kentucky, and the NHANES.

Role: Co-investigator (0.24 months; 2%)

5 U50 OH007547 (PI: Mannino) (\$850,000/yr)
CDC/NIOSH

09/30/2011-09/29/2016

The Center began in 1992

Southeast Center for Agricultural Health and Disease Prevention

The goals of the Center are to conduct a multidisciplinary agricultural health and safety research program
to develop novel disease and injury prevention models and evaluate educational, outreach and
intervention programs.

Role: Deputy Director of the Center (2.67 months; 22.25%)

Department of Defense (PI: Arnold) (\$1,000,000/yr)
Proposal Number 10153006

09/01/2011-08/31/2016

The Lung Cancer Research Initiative of the Markey Cancer Center: A population-based case-control
study of lung cancer in Appalachian Kentucky: The role of environmental carcinogens. This study will test
the hypothesis that in addition to smoking, the unexpectedly high rate of lung cancer in Appalachian
Kentucky is associated with exposure to environmental carcinogens that increase oxidative stress and
DNA damage.

Role: Co-Investigator (0.36 months; 3%)

T42 OH010278 (PI: Sanderson) (\$600,000/yr)
CDC/NIOSH

07/01/2012-06/30/2014

Occupational Safety and Health Training Grant - Education and Research Center (ERC) Central
Appalachian Regional Education Research Center

The major goal of the Center will be to provide graduate training, continuing education and outreach in
occupational safety and health to serve the Central Appalachian Region.

Role: Principal Investigator/Director (1.8 months; 15%)

5 U50 OH07548 (PI: Sanderson) (\$884,011/yr)

10/01/2006-9/30/2011

US Department of Health & Human Services Centers for Disease Control & Prevention

The goals of the Center are to conduct a multidisciplinary agricultural health and safety research program
to develop novel disease and injury prevention models and evaluate educational, outreach and
intervention programs.

Role: Director of the Center

Evaluation of Air and Surface Sampling Techniques for BioTerrorism Agents (\$20,000) 9/01/02-10/31/05
 240 BPA 04 EH 0122
 National Institute for Occupational Safety and Health
 Sanderson, PI

Comparison of Diesel Exhaust from School Buses by Fuel Type (\$15,000) 7/1/2004 – 6/30/2005
 Pilot grant to compare of particulate exposures from diesel versus biodiesel fuels
 Role: PI

Pilot Grant \$12,000
 Validation Study of Ionization Systems in Swine Confinement Buildings 7/1/04 – 6/30/05
 Miller; PI: Sanderson

Pilot Grant \$15,000
 Pesticide Levels and Absorbed Doses inside Iowa Homes over Time 7/1/04 – 6/30/05
 Golla; PI: Sanderson

Airborne Antibiotic Exposures in Animal Feeding Operations \$15,000
 University of Iowa, Educational Research Center Aug 2003 - Jul 2004
 Murphy; PI: Sanderson

Epidemiological Health Survey of Department of Defense Contract Workers at \$2,289,761
 the Iowa Army Ammunitions Plant in Middletown, IA: Analyses of Cohort 08/08/02-12/30/05
 Mortality/Cancer Incidence and Surveillance for the Prevalence of Positive
 Beryllium Lymphocyte Proliferation Tests
 US Department of Defense, Army DAAD05-02-P- 1224 Amendment 4
 P.I. L. Fuortes Co-Principle Investigator W. Sanderson

National Institute for Environmental Health Sciences \$681,090
 Environmental Health Sciences Research Center 04/01/05-03/31/06
 PS Thorne, Center Director

CDC/NIOSH \$1,200,000
 Occupational Safety and Health Training Grant - Education and Research 07/01/00-06/30/08
 Center (ERC) - Heartland Center for Occupational Safety and Health
 Sprince, PI Industrial Hygiene Core (Sanderson, Director) \$113,835
 07/01/00-06/30/08

U.S. Department of Energy \$118,254
 Phase II, Year 4: Burlington Atomic Energy Commission Plant--Former Worker 08/01/00–11/30/08
 Program
 Field, PI

US Department of Defense: Epidemiologic Health Survey of Department of \$43,825
 Defense Contract Workers at the Iowa Army Ammunition Plant in Middletown, 8/8/02-3/31/05
 IA (Fuortes, PI)

CDC \$917,100
 Iowa Center for Birth Defects Research and Prevention 9/30/96-7/31/07
 (Romitti, PI)

Iowa Department of Public Health \$113,322
 State of Iowa FACE (Fatality Assessment & Control Evaluation) Program 02/01/95-8/31/06
 (Zwerling, PI)

Pilot Grant Evaluating Noise Exposures of Rural Youth (Sanderson, PI)	\$14,930 10/01/05-9/30/06
Colorado State University Tractor Safety Initiatives Sanderson, PI	\$22,623 01/01/06-8/31/06
US Department of Defense Epidemiological & Medical Monitoring of Former DoD Workers at the Iowa Army Ammunitions Plant (IAAAP) in Middletown, Iowa.	\$523,780 09/29/05-9/28/09

D. Invited Presentations and Interviews

<u>Year</u>	<u>Title</u>	<u>Organization</u>
2020	Research and Training Collaborations between NIOSH ERCs, Ag Centers, Universities, and State Health Departments	Southern States Occupational Health Network (SouthON) Conference Birmingham, AL
2019	Preparing Emergency Response Personnel for Agricultural Health and Safety Situations (Nov 15)	Kentucky Department of Agriculture Hodgenville, KY
2019	Lux Talk (Keynote Address): An American Public Health College's Response to Local Health Needs (June 19)	University of Liberia Monrovia, Liberia
2019	Opioid Exposures of Emergency First Responders (May 17)	Lexington-Fayette County Health Department, Lexington, KY
2019	Preparing Students to Support State Public Health Responses, the Kentucky Public Health Assistance and Support Team (Mar 22)	University of Cincinnati, Cincinnati, OH
2017	Absorbed Doses of Arsenic from Residents on Superfund Site (Apr 13)	Kentucky Public Health Association Owensboro, KY
2014	Coal Workers Pneumoconiosis – (Oct 2014)	Seminar – College of Health and Human Services, Western Kentucky University
2014	Interview: Cancers Caused by Environmental Exposures (Jan 2014)	USA Today Newspaper Reporter: Steve Riczo
2013	Sanderson W. Coal Workers Pneumoconiosis: An Ancient Disease Still Among Us (Keynote Speaker) (Oct 10)	University of Cincinnati ERC 14 th Annual Pilot Research Project Symposium
2013	Sanderson W, McCanlies E Parental Occupational Exposures and Autism Spectral Disorder (May 22)	American Industrial Hygiene Conference and Exposition Montreal, Canada

2012	Sanderson W, Curwin B, Lozier M, Golla V Agricultural Herbicides: Field to Home to Children (Keynote Speaker) (Sep 14)	Pediatric Environmental Health Conference; University of Iowa Children's Hospital and Iowa Center for Health Effects of Environmental Contamination Iowa City, Iowa
2010	Sanderson W Expert Interview: Fatal Attractions-Raging Bull	Animal Planet: Documentary film by Oxford Scientific Films, London, England Aired on Nov. 5 and Nov. 12
2009	Sanderson W Environmental Indoor Air Problems: Mold and Radon (Apr 12)	Earth Day Celebration – Student Civilian Conservation Association and AmeriCorps, Manchester, NH
2009	Sanderson W Atrazine Inside Farm Homes and Family Absorbed Doses Over Time	University of Michigan College of Public Health – Seminar Series
2008	Sanderson W NIOSH Tractor Initiative: Where's the Beef? (Nov 21)	2008 Midwest Rural Agricultural Safety and Health Forum
2008	Sanderson W Dermal Exposure Assessment (Nov 5)	37 th Annual Iowa Governor's Safety Conference & Expo
2007	Sanderson W, Golla V, Curwin B Pesticide Levels and Absorbed Doses Inside Iowa Homes Over Time—Farm Families' Potential Long-Term Exposures (Dec 12)	University of Kentucky College of Public Health Seminar Series Lexington, Kentucky
2007	How Epidemiology Influences Workplace Exposures (Oct 16-17)	3 rd Annual Joint Western Regional Mine Safety and Health Conference Las Vegas, Nevada
2005	The Role of Industrial Hygienists During BioTerrorism Events (Nov 4)	5 th Annual Safety Sciences Mini-Symposium: Assessment of Unusual Exposures, Central Missouri State University, Warrensburg, Missouri
2005	Tractor Overturn Concerns in Iowa: Perspectives from Keokuk County Rural Health Study	Midwest Rural and Agricultural Safety and Health Forum Iowa City, Iowa
2005	Airborne Antibiotic Exposures in Animal Feeding Operations (Oct)	Midwest Rural and Agricultural Safety and Health Forum Iowa City, Iowa
2005	Successful R2P Projects on NIOSH Ag Centers (Oct)	Midwest Rural and Agricultural Safety and Health Forum Iowa City, Iowa
2005	FSJK Presentation: Workshop Protecting Children from Farm Hazards (Sept 21)	Agricultural Safety Health Research Iowa City, Iowa

2005	Overview of Agricultural Health and Safety Research at the University of Iowa (Sept)	Farm Safety 4 Just Kids Workshop Iowa City, Iowa
2004	Respirator Fit Testing and Mask Selection (Nov 18)	Midwest Rural and Agricultural Safety and Health Forum Iowa City, Iowa
2004	Tractor Safety Concerns in a Rural Iowa County (Nov 18)	Midwest Rural and Agricultural Safety and Health Forum Iowa City, Iowa
2004	Keynote Luncheon Speaker: Cases, Cures and Careers—Centers for Disease Control and Prevention (Oct 21)	Iowa Science Teachers' Section of the Iowa Academy of Science Des Moines, Iowa
2004	Beryllium Exposure and Cancer Risk	Beryllium International Research Symposium, National Jewish Medical Research Center, Denver, Colorado
2003	Occupational Noise Standards and Their Place in Agriculture (Nov 5-6)	Midwest Agricultural Health and Safety Forum Des Moines, Iowa
2003	Great Plains Center Ag Health Proposals to Reduce Tractor-Related Injury and Death	National Institute for Occupational Safety and Health Workshop Pittsburgh, Pennsylvania
2002	Great Plains Center for Ag Health Activities (Nov 13-14)	Midwest Agricultural Health and Safety Forum Amana Colonies, Iowa
1997	Biological Particulate Evaluations in Agricultural Environments (Feb)	Applied Bioaerosols Workshop San Diego, California

Conference Presentations/Posters (Past 3 Years)

<u>Year</u>	<u>Title</u>	<u>Organization</u>
2018	Opioid Exposures of First Responders	International Symposium to Advance Total Worker Health Bethesda, Maryland
2018	Undiagnosed Chronic Respiratory Disease in Farmers	Agricultural Health and Safety Council of America Scottsdale, Arizona

IV. SERVICE

A. Offices/Appointments Held in Professional Organizations

1. *Review Panels*

I have served as a grant reviewer or on a panelist on special toxicological reviews for the following substances and organizations.

<u>Year</u>	<u>Title</u>
2019	Grant Review Panel – Superfund Research Centers: National Institute for Environmental Health Sciences, Research Triangle Park, NC
2019	Evaluation Panel for the Occupational Environmental Epidemiology Branch: National Cancer Institute, Rockville, MD
2014	Chair – Training Program Grants Review: National Institute for Occupational Safety and Health, CDC, Atlanta, GA
2013	Grant Review Panel: Center for Scientific Review, Heart, Lung, and Blood Institute, National Institutes of Health
2013	Special Emphasis Grant Review Panel: Center for Scientific Review, Heart, Lung, and Blood Institute, National Institutes of Health
2013	Bromopropane and Cumene Carcinogen Review for the National Toxicology Program (NTP)
2011	Special Emphasis Grant Review Panel: Intervention Research (NIOSH)
2011	Grant Review Panel: Interaction between Nutrition and Environmental Exposures (National Institute for Environmental Health)
2011	Special Emphasis Grant Review Panel: Occupational Surveillance (NIOSH)
2011	Education Research Centers: Grant Review Panel (NIOSH)
2010	Education Research Centers: Grant Review Panel (NIOSH)
2010	Special Emphasis Grant Review Panel: Construction Exposure Control Interventions (NIOSH)
2009	Formaldehyde Carcinogen Review for the National Toxicology Program (NTP)
2009	Partnerships for Environmental Public Health (NIEHS)
2008	Cobalt Tungsten Carbide Powders and Hard Materials Carcinogen Review for the National Toxicology Program (NTP)
2008	Mesothelioma Registry Grant (NIOSH)
2008	Internal Research Project Proposal Reviews (NIOSH)
2007	Research on Methods to Prevent of Acts of Terrorism Grants (U.S. Dept of Justice)

- 2006 Prevention Methods for Respiratory Disease—Special Emphasis Grants (NIOSH)
- 2005 State Occupational Health and Safety Surveillance Program Grants (NIOSH)
- 2004 Development of Methods to Detect Agents of Bioterrorism Grants (CDC)
- 2003 Occupational Health and Safety Training Program Grants (NIOSH)
- 2001 Bromopropane Toxicological Review Panel (NIEHS)

2. *Professional Organization* (state and/or national)

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2019-present	American Society of Agricultural and Biological Engineers	Member
2005-present	International Society for Agricultural Safety and Health	Member
1987-present	American Board of Industrial Hygiene	Diplomate
1982-present	American Conference of Governmental Industrial Hygienists	Member and Past Chair – Agriculture Health and Safety Committee
1986-1999	Society for Epidemiological Research	Member
1978-2002	Commissioned Officers Association of the U.S. Public Health Service	Member and Past President of Cincinnati Branch
1978-2010	American Industrial Hygiene Association	Member and Member of Occupational Epidemiology Committee

B. Other Professional Service

1. *Support Governmental and Private Activities, Organize Conferences, Work Groups*

<u>Year</u>	<u>Title</u>
2018-Present	Safety and Rural Health Advisory Committee – Kentucky Farm Bureau, Louisville, KY
2017	Kentucky Department for Public Health Emergency Response: Children potentially exposed to bat rabies
2016	Montgomery County and Kentucky Department of Public Health Emergency Response: Arsenic contamination of residences near Superfund site.
2016-Present	Occupational Health SouthON, Coordinator and Sponsor, Council of State and Territorial Epidemiologists
2012-Present	Kentucky Public Health Assistance and Support Team (K-PHAST): Student and faculty training to support state and local emergency and outbreak response efforts

- 2008 ACGIH Agriculture Health & Safety Session, American Industrial Hygiene Conference, Toronto, Ontario
- 2008 Planning Committee, 6th International Symposium Future of Rural Peoples, Saskatchewan, Canada
- 2007 ACGIH Agriculture Health & Safety Session, American Industrial Hygiene Conference, Minneapolis, Minnesota
- 2007 Annual Meeting of NIOSH ERC and TPG Industrial Hygiene Training Program Directors, Charleston, SC
- 2006 Chair, NIOSH NORA II Town Hall Meeting for the Midwest Region Iowa City, IA; for the National Institute for Occupational Safety and Health
- 2003 Planning Committee, 5th International Symposium Future of Rural Peoples, Saskatchewan, Canada
- 1991 ACGIH Agriculture Health & Safety Session, American Industrial Hygiene Conference, Salt Lake City, Utah
- 1990 ACGIH Agriculture Health & Safety Session, American Industrial Hygiene Conference, Orlando, Florida

2. *Departmental, Collegiate or University Committees (Past 3 Years)*

<u>Year</u>	<u>Title</u>
2018 – Present	Kentucky Master Naturalist Training Program – Cooperative Extension Service, College of Agriculture, Food, and Environment, University of Kentucky, Lexington, KY
2018- Present	Appointment, Promotion, and Tenure Committee, College of Public Health, University of Kentucky
2017	Global Health Committee – College of Public Health, University of Kentucky
2015- Present	College of Public Health Group Leader and Mentor, Shoulder to Shoulder Brigade, Santo Domingo, Ecuador – Public Health and Water Quality Concerns
2016- Present	Shoulder to Shoulder Global, Board of Directors
2015- Present	Board of Directors, Interprofessional Education, University of Kentucky
2015	Board of Directors, Center for Health Services Research, College of Medicine, University of Kentucky

3. *State, National, or International Work Groups*

<u>Year</u>	<u>Title</u>
2017- Present	Kentucky Health & Medical Preparedness Committee (HMAPC) Kentucky Department for Public Health
2016 – Present	Board of Advisors for SER San Antonio – Nicaraguan Nephrotoxin Studies, Managua, Nicaragua
2014 – Present	Kentucky Public Health Assistance and Support Team (K-PHAST) Kentucky Department for Public Health
2012 – Present	Building Epidemiology Capacity in Kentucky (BECKY): Chair of Academic Collaboration Committee; Kentucky Department for Public Health
2009 – 2010	Advisory Board, Atlantic Rural Centre, Atlantic Provinces, Canada
2008 – 2009	Iowa Governors Water Resource Coordinating Council
2007 – 2009	Board of Directors, Iowa Center for Agricultural Health and Safety
2002 – 2009	Iowa Department of Health Emergency Response Committee