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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<br>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  | 12/2009-04/2020                    | 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  | 03/2009-12/2009                    | The University of Iowa, College of Public Health, Department of Occupational and Environmental Health, Iowa City, Iowa   |
| Professor  | 03/09-12/2009                      | The University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, Iowa  |
| Associate Professor                                  | 08/2002-03/2009                    | The University of Iowa, College of Public Health, Department of Occupational and Environmental Health, Iowa City, Iowa   |
| Associate Professor                                  | 08/2003-03/2009                    | The University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, Iowa  |
| Director   | 08/2002-11/2009                    | Great Plains Center for Agricultural Health, The University of Iowa, College of Public Health, Iowa City, Iowa   |
| Director   | 07/2004-11/2009                    | The University of Iowa, Heartland Center for Occupational Health & Safety, Industrial Hygiene Core   |
| Core Co-Director                                     | 08/2004-11/2009                    | The University of Iowa, Environmental Health Sciences Research Center, Environmental Modeling & Assessment Facility  |
| Section Chief  | 02/1997-08/2002                    | 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 | 07/1990-02/1997                    | Industrial Hygiene Section, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, Ohio |

|   |                 |  |
|---|-----------------|--|
| Epidemiologist                          | 08/1988-07/1990 | 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             | 09/1987-08/1988 | Health Hazard Evaluation Activity, Clinical Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, West Virginia |
| Epidemiologist/<br>Industrial Hygienist | 06/1983-09/1987 | Clinical Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, West Virginia                                    |
| Instructor                              | 08/1980-05/1988 | Occupational Safety and Health Department, Division of Engineering Technology, Fairmont State College, Fairmont, West Virginia   |
| Industrial Hygienist                    | 06/1978-06/1983 | 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<br>Certified Industrial Hygienist – Certification #3652 | 1987-Present |

### C. Honors, Awards, Recognitions, Outstanding Achievements

| <u>Year</u> | <u>Title</u>  |
|-------------|---|
| Dec 2020    | University of Kentucky Alumni Association, Great Teacher Award – An award nominated by students.  |
| 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, <b>Wayne Sanderson</b> : “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,<br>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   |
| 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; Fall 2020   |
| Occupational Health (CPH 620)  | 3     | Spr 2014; Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020; Spr 2021                   |
| 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; Fall 2020 |
| Health of Agricultural Populations (CPH 720) (BAE 599-002)                     | 3     | Fall; 2014; Fall 2015; Fall 2016; Fall 2017; Fall 2019; Fall 2020                                |
| 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 (CPH 202)       | 3     | Spr 2012; Spr 2013; Spr 2014 |

|   |   |   |
|---|---|---|
| Disease Detectives – Epidemiology in Action (CPH 310)             | 3 | Spr 2017; Fall 2018   |
| Population Health and Crisis Management (CPH 351)                 | 3 | Spr 2015; Spr 2016; Spr 2017; Spr 2018; Spr 2019; Spr 2020; Spr 2021                              |
| 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; Spr 2021          |
| 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**

| <b>Course</b>   | <b>Hours</b> | <b>Semester</b>  |
|---|--------------|--|
| 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**

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

**Courses Taught as Instructor before Becoming Academic Faculty**

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

**B. Students Advised – Thesis, Dissertation, or Capstone**

| <b>Name</b>       | <b>Degree</b>                    | <b>Graduation</b> |
|-------------------|----------------------------------|-------------------|
| Monica Cipriani   | PhD – Epidemiology/Biostatistics |                   |
| Kristen Van Buren | DrPH – Epidemiology              |                   |
| Eric Wilson       | DrPH – Epidemiology              |                   |
| Paul Norrod       | DrPH – Epidemiology              | Aug 2021          |
| Mira Mirzaian     | MPH – Epidemiology               | May 2021          |
| Kaelyn Short      | MPH – Environmental Health       | May 2021          |
| Brooke Spillman   | MPH – Environmental Health       | May 2021          |



|                    |                                  |          |
|--------------------|----------------------------------|----------|
| John Flunker       | PhD – Epidemiology/Biostatistics | May 2021 |
| Brian Kovacic      | PhD – Epidemiology/Biostatistics | May 2021 |
| 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 |

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|-----------------|---|----------|
| 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

| <u>Name</u>       | <u>Degree</u>                             | <u>Graduation</u> |
|-------------------|---|-------------------|
| Austin Leake      | MS – Community Leadership Development     |                   |
| Sarah Robbins     | MPH - Epidemiology                        |                   |
| Anna Pasternak    | PhD - Entomology                          |                   |
| Peter Schmitt     | PhD – Biosystems Agricultural Engineering |                   |
| Prasert Khaim-ai  | PhD – Nursing (UAB)                       |                   |
| Robin Ray         | PhD - Nursing                             |                   |
| Gloria Gellin     | PhD – Veterinary Science                  | Aug 2021          |
| Rachid Souleye    | MPH – Epidemiology                        | May 2021          |
| Rana Rahman       | PhD – Nursing                             | Dec 2020          |
| 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 Warriar       | 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<br>(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<br>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 |

#### D. Other Contributions to Institutional Programs

##### ***Institutional Conferences, Grand Rounds, Journal Club***

| <u>Date</u> | <u>Title</u>  | <u>Location</u>   |
|-------------|---|---|
| 2020        | Alpha-gal Syndrome among Forestry and Wildlife Workers (Nov. 13)  | CARERC Seminar<br>University of Kentucky  |
| 2020        | Agricultural Health and Safety Risks (Mar. 6)   | Department of Plant and Soil Science,<br>College of Agriculture, Food, and the<br>Environment, University of Kentucky   |
| 2019        | Personal Sampling for Hazardous Exposures<br>Occupational Medicine Grand Rounds (Feb. 28)                               | College of Public Health – University of<br>Kentucky  |
| 2018        | Interprofessional Collaboration to Solve Public<br>Health Problems – Example Ecuador Water Study                        | Area Health Education Center – Summer<br>Camp; University of Kentucky   |
| 2017        | Ionizing Radiation Hazards – Preventive and<br>Occupational Medicine Grand Rounds (Oct. 6)                              | College of Public Health – University of<br>Kentucky  |
| 2017        | Non-Ionizing Radiation Hazards – Preventive and<br>Occupational Medicine Grand Rounds (Aug. 4)                          | College of Public Health – University of<br>Kentucky  |
| 2016        | Noise Induced Hearing Loss – Preventive and<br>Occupational Medicine Grand Rounds (Nov. 4)                              | College of Public Health – University of<br>Kentucky  |
| 2015        | Ebola: Outbreak Prevention - What we are Doing in<br>the U.S. (October 29)  | Donovan Scholars - Life Long Learning<br>Program, Alumni Center – Lexington, KY   |
| 2014        | Injuries from Farm Animals<br>(January 22)  | Central Appalachian Regional<br>Educational Research Center - University<br>Kentucky  |
| 2013        | Speed Networking – Job Interviewing Practice and<br>Evaluation (April 26)   | College of Public Health – University of<br>Kentucky  |
| 2012        | Confined Animal Operations and Child Asthma<br>(February 3)   | Grand Rounds – University of Kentucky –<br>College of Public Health<br>Lexington, Kentucky  |
| 2011        | Injuries from Farm Animals<br>(July 2011)   | Kentucky Occupational & Environmental<br>Medicine Association; Lexington,<br>Kentucky   |
| 2010        | Nutrition—the Overlooked Confounder and Effect<br>Modifier in Occupational and Environmental Disease<br>Studies (Dec 2) | Workshop: Nutrition and Superfund<br>Chemical Toxicity: Implications in Risk<br>Assessment; University of KY Superfund<br>Research Program<br>Lexington, Kentucky |

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|------|--|---|
| 2010 | 6X5X5 Power Presentations<br>Epidemiology Department Projects (Nov 12)                         | 6X5X5 Power Presentations<br>College of Public Health<br>University of Kentucky   |
| 2010 | Child Asthma and Agricultural Exposures (Mar 26)   | Grand Rounds – University of Kentucky –<br>College of Public Health<br>Lexington, Kentucky  |
| 2008 | How to Write a Pilot Grant (Feb 21)  | Regional Partners – Elluminate Course,<br>Great Plains Center for Agricultural<br>Health<br>Iowa City, Iowa                           |
| 2005 | Controlling Pesticide Exposure<br>(Apr 1)  | 7 <sup>th</sup> Annual Occupational Health<br>Symposium – New Dimensions in Health<br>and Safety<br>Iowa City, Iowa                   |
| 2005 | Overview of the Great Plains Center for Agricultural<br>Health (Jan 18)                        | Department of Occupational and<br>Environmental Health Seminar College of<br>Public Health, The University of Iowa<br>Iowa City, Iowa |
| 2004 | Preventing Tractor Overturns<br>(Nov 11)   | Keokuk County Rural Health Study<br>Executive Advisory Committee Meeting<br>Sigourney, Iowa   |
| 2004 | Tractor Safety Concerns and Safe Use of Pesticides<br>(May 4)                                  | Keokuk County Rural Health Study<br>Executive Advisory Committee Meeting,<br>Sigourney, Iowa  |
| 2003 | Hazardous Harvest: Farm Machinery Injuries and<br>Fatalities (Apr 22)                          | The University of Iowa, Occupational<br>Medicine Dinner Meeting<br>Iowa City, Iowa  |
| 2003 | Bioterrorism: Report on the U.S. Postal Service<br>Anthrax Investigation (Apr 4)               | 5 <sup>th</sup> Annual Occupational Health<br>Symposium – Taking Health and Safety<br>to a New Dimension<br>Iowa City, Iowa           |
| 2003 | Detecting Agents of Bioterrorism: An Overview of<br>Environmental Sampling Techniques (Mar 13) | Grand Round Series<br>Center for Public Health Practice<br>The University of Iowa<br>Iowa City, Iowa                                  |
| 2002 | Take-Home Pesticide Exposures of Farm Families<br>(Dec 12)                                     | Agricultural Health Study Conference<br>Iowa City, Iowa   |

***Continuing Education Course Presentations***

| <u>Year</u> | <u>Title</u>  | <u>Location</u>     |
|-------------|---|---------------------|
| 2019        | Vector-borne Diseases among Farmers and<br>Agricultural Workers – Kentucky Occupational<br>Environmental Medicine Association (Mar 2) | Lexington, Kentucky |

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

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|------|--|---|
| 2006 | Health Physics for Certified Hearing Conservationists              | Council for Accreditation in Occupational Hearing Conservation<br>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<br>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 <sup>th</sup> Annual Occupational Health Symposium – “Taking Health and Safety to a New Dimension”<br>Iowa City, Iowa |
| 2003 | The Facts About Mold   | 5 <sup>th</sup> Annual Occupational Health Symposium – “Taking Health and Safety to a New Dimension”<br>Iowa City, Iowa |
| 2003 | Terror as an Occupational Hazard                                   | School of Public Health Dean’s Forum<br>University of Illinois<br>Chicago, Illinois                                     |
| 2002 | Respirator Fit Testing   | WorkSafe Iowa Fall Meeting<br>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<br>U.S. State Department Guest Speakers Program, University of Liberia, Monrovia, Liberia |
| 1999        | Health and Safety Concerns Associated with Pesticide Exposures<br>National Institute for Occupational Health<br>Johannesburg, South Africa  |
| 1999        | Health and Safety Concerns Associated with Pesticide Exposures<br>University of KwaZulu Natal<br>Durban South Africa  |
| 2004        | Development of Industrial Hygiene Training Curriculum for South Africa<br>University of KwaZulu Natal<br>Durban, South Africa   |

### III. SCHOLARSHIP

#### A. Publications or Creative Works

##### *Peer-Reviewed Papers*

1. Santiago-Colon A, Rocheleau C, Bertke S, Christianson A, Collins D, Trester-Wilson E, **Sanderson W**, Waters M, Reefhuis J (2021): Testing and Validating Semi-automated Approaches to the Occupational Exposure Assessment of Polycyclic Aromatic Hydrocarbons. *Annals of Work Exposures and Health* doi: 10.1093/annweh/wxab002.
2. Peterson M, **Sanderson W**, Kussainov N, Hobbs S, Miles P, Scollay M, Clayton H (2021): Effects of Racing Surface and Track Radius on Limb Fractures in Thoroughbred Racehorses. *Sustainability in the Equine Industry* 13:539. <https://doi.org/10.3390/su13020539>
3. Bellamy P, **Sanderson W**, Winter K, Stringer J, Kussainov N, Commins S. (2021): Prevalence of Alpha-gal Sensitization among Kentucky Timber Harvesters and Forestry and Wildlife Practitioners. *J Allergy Clin Immunol In Practice* 9(5):2113-2116 <https://doi.org/10.1016/j.jaip.2020.12.021>
4. Fischer R, Unrine J, Vangala C, **Sanderson W**, Mandayam S, Murray K (2020): Evidence of Nickel and Other Trace Elements and Their Relationship to Clinical Findings in Acute Mesoamerican Nephropathy: A Case-Control Analysis. *PLoS ONE* 15(11): e0240988. <https://doi.org/10.1371/journal.pone.0240988>.
5. 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* 64(9):936-943.
6. **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.
7. 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. Birth Defects Research* 112:404-417 DOI:10.1002/bdr2.1643.
8. 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.
9. 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).
10. 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>.
11. 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? *Open Access Journal Obstetrics Gynecology* 9(5):547-565.

12. 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.
13. 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.
14. 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.
15. 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
16. 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>.
17. Gan W, **Sanderson W**, Browning S, Mannino D (2017): Different Types of Housing and Respiratory Health Outcomes. *Preventive Medicine Reports* 7:124-129.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.

27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
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34. 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).
35. 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.
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41. 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.
42. 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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44. Humann M, **Sanderson W**, Flamme G, Kelly K, Moore G, Stromquist A, Merchant J. Noise Exposures of Rural Adolescents. *J Rural Health* 27(1):72-80, Jan 2011.
45. 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.
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55. Murphy M, **Sanderson W**, Vargo J. Airborne Antibiotic Concentrations in a Swine Feeding Operation. *J Agric Safety Health* 13(4):357-366, Oct 2007.
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3. Sanderson W, Madsen M. Fatalities Caused by Cattle-Iowa, Kansas, Missouri, and Nebraska. *Alive and Well Newsletter*. Vol. 15 Issue 2. (March 2009)
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*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.
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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**

R01ES032396 (PI: Unrine, JM; Hoover AJ) (\$2,495,478) 01/01/2021-10/31/2025  
NIH/NIEHS

*A university-community partnership to reduce exposure to disinfection byproducts in Appalachia*

Goal: To reduce exposure to disinfection byproducts in Appalachia.

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

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 (0.12 months; 1%)

T42 OH010278 (PI: Sanderson) (\$1,613,464/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 (4.2 months; 35%)

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) 01/01/2018-12/31/2018  
 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) (\$1,473,189/yr) 09/30/2016 - 09/29/2022  
 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: PI/Director of the Center (4.2 months; 35%)

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

T42 OH010278 (PI: Sanderson) (\$1,400,000/yr) 07/01/2014-06/30/2019  
 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 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) 05/15/2015-04/30/2017  
 NCI  
 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) 09/30/2011-09/29/2016  
 CDC/NIOSH The Center began in 1992  
 Southeast Center for Agricultural Health and Disease Prevention  
 Wayne T. Sanderson - Curriculum Vitae



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

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|--|--|
| Epidemiological Health Survey of Department of Defense Contract Workers at the Iowa Army Ammunitions Plant in Middletown, IA: Analyses of Cohort Mortality/Cancer Incidence and Surveillance for the Prevalence of Positive Beryllium Lymphocyte Proliferation Tests<br>US Department of Defense, Army DAAD05-02-P- 1224 Amendment 4<br>PI L. Fuortes Co-Principle Investigator W. Sanderson | \$2,289,761<br>08/08/02-12/30/05                                   |
| National Institute for Environmental Health Sciences<br>Environmental Health Sciences Research Center<br>PS Thorne, Center Director  | \$681,090<br>04/01/05-03/31/06                                     |
| CDC/NIOSH<br>Occupational Safety and Health Training Grant - Education and Research Center (ERC) - Heartland Center for Occupational Safety and Health<br>Sprince, PI Industrial Hygiene Core (Sanderson, Director)  | \$1,200,000<br>07/01/00-06/30/08<br>\$113,835<br>07/01/00-06/30/08 |
| U.S. Department of Energy<br>Phase II, Year 4: Burlington Atomic Energy Commission Plant--Former Worker Program<br>Field, PI   | \$118,254<br>08/01/00-11/30/08                                     |
| US Department of Defense: Epidemiologic Health Survey of Department of Defense Contract Workers at the Iowa Army Ammunition Plant in Middletown, IA (Fuortes, PI)  | \$43,825<br>8/8/02-3/31/05   |
| CDC<br>Iowa Center for Birth Defects Research and Prevention<br>(Romitti, PI)  | \$917,100<br>9/30/96-7/31/07                                       |
| Iowa Department of Public Health<br>State of Iowa FACE (Fatality Assessment & Control Evaluation) Program<br>(Zwerling, PI)  | \$113,322<br>02/01/95-8/31/06                                      |
| Pilot Grant<br>Evaluating Noise Exposures of Rural Youth<br>(Sanderson, PI)  | \$14,930<br>10/01/05-9/30/06                                       |
| Colorado State University<br>Tractor Safety Initiatives<br>Sanderson, PI   | \$22,623<br>01/01/06-8/31/06                                       |
| US Department of Defense<br>Epidemiological & Medical Monitoring of Former DoD Workers at the Iowa Army Ammunitions Plant (IAAAP) in Middletown, Iowa.   | \$523,780<br>09/29/05-9/28/09                                      |

#### D. Invited Presentations and Interviews

| <u>Year</u> | <u>Title</u>   | <u>Organization</u>                                    |
|-------------|--|--|
| 2021        | Safety and Health for Master Naturalists                         | Kentucky Master Naturalists Organization               |
| 2020        | Protecting Agricultural Workers from COVID-19 Infection (Sep 10) | Kentucky Farm Bureau – Labor Committee, Louisville, KY |

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|------|--|--|
| 2020 | Research and Training Collaborations between NIOSH ERCs, Ag Centers, Universities, and State Health Departments              | Southern States Occupational Health Network (SouthON) Conference<br>Birmingham, AL   |
| 2019 | Preparing Emergency Response Personnel for Agricultural Health and Safety Situations (Nov 15)                                | Kentucky Department of Agriculture<br>Hodgenville, KY  |
| 2019 | Lux Talk (Keynote Address): An American Public Health College's Response to Local Health Needs (June 19)                     | University of Liberia<br>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<br>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<br>Reporter: Steve Riczo   |
| 2013 | Sanderson W. Coal Workers Pneumoconiosis: An Ancient Disease Still Among Us (Keynote Speaker) (Oct 10)                       | University of Cincinnati ERC<br>14 <sup>th</sup> Annual Pilot Research Project Symposium   |
| 2013 | Sanderson W, McCanlies E<br>Parental Occupational Exposures and Autism Spectral Disorder (May 22)                            | American Industrial Hygiene Conference and Exposition<br>Montreal, Canada  |
| 2012 | Sanderson W, Curwin B, Lozier M, Golla V<br>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<br>Iowa City, Iowa |
| 2010 | Sanderson W<br>Expert Interview: Fatal Attractions-Raging Bull   | Animal Planet: Documentary film by Oxford Scientific Films, London, England<br>Aired on Nov. 5 and Nov. 12   |
| 2009 | Sanderson W<br>Environmental Indoor Air Problems: Mold and Radon (Apr 12)  | Earth Day Celebration – Student Civilian Conservation Association and AmeriCorps, Manchester, NH   |
| 2009 | Sanderson W<br>Atrazine Inside Farm Homes and Family Absorbed Doses Over Time  | University of Michigan College of Public Health – Seminar Series   |

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| 2008 | Sanderson W<br>NIOSH Tractor Initiative: Where's the Beef?<br>(Nov 21)  | 2008 Midwest Rural Agricultural Safety<br>and Health Forum   |
| 2008 | Sanderson W<br>Dermal Exposure Assessment (Nov 5)   | 37 <sup>th</sup> Annual Iowa Governor's Safety<br>Conference & Expo  |
| 2007 | Sanderson W, Golla V, Curwin B<br>Pesticide Levels and Absorbed Doses Inside<br>Iowa Homes Over Time—Farm Families'<br>Potential Long-Term Exposures (Dec 12) | University of Kentucky College of Public<br>Health Seminar Series<br>Lexington, Kentucky   |
| 2007 | How Epidemiology Influences Workplace<br>Exposures (Oct 16-17)  | 3 <sup>rd</sup> Annual Joint Western Regional Mine<br>Safety and Health Conference<br>Las Vegas, Nevada  |
| 2005 | The Role of Industrial Hygienists During<br>BioTerrorism Events (Nov 4)   | 5 <sup>th</sup> Annual Safety Sciences Mini-<br>Symposium: Assessment of Unusual<br>Exposures, Central Missouri State<br>University, Warrensburg, Missouri |
| 2005 | Tractor Overturn Concerns in Iowa:<br>Perspectives from Keokuk County Rural Health<br>Study   | Midwest Rural and Agricultural Safety<br>and Health Forum<br>Iowa City, Iowa   |
| 2005 | Airborne Antibiotic Exposures in Animal Feeding<br>Operations (Oct)   | Midwest Rural and Agricultural Safety<br>and Health Forum<br>Iowa City, Iowa   |
| 2005 | Successful R2P Projects on NIOSH Ag Centers<br>(Oct)  | Midwest Rural and Agricultural Safety<br>and Health Forum<br>Iowa City, Iowa   |
| 2005 | FSJK Presentation: Workshop Protecting<br>Children from Farm Hazards (Sept 21)  | Agricultural Safety Health Research<br>Iowa City, Iowa   |
| 2005 | Overview of Agricultural Health and Safety<br>Research at the University of Iowa (Sept)   | Farm Safety 4 Just Kids Workshop<br>Iowa City, Iowa  |
| 2004 | Respirator Fit Testing and Mask Selection (Nov<br>18)   | Midwest Rural and Agricultural Safety<br>and Health Forum<br>Iowa City, Iowa   |
| 2004 | Tractor Safety Concerns in a Rural Iowa County<br>(Nov 18)  | Midwest Rural and Agricultural Safety<br>and Health Forum<br>Iowa City, Iowa   |
| 2004 | Keynote Luncheon Speaker: Cases, Cures and<br>Careers—Centers for Disease Control and<br>Prevention (Oct 21)  | Iowa Science Teachers' Section of the<br>Iowa Academy of Science<br>Des Moines, Iowa   |
| 2004 | Beryllium Exposure and Cancer Risk  | Beryllium International Research<br>Symposium, National Jewish Medical<br>Research Center, Denver, Colorado  |

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| 2003 | Occupational Noise Standards and Their Place in Agriculture (Nov 5-6)              | Midwest Agricultural Health and Safety Forum<br>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<br>Pittsburgh, Pennsylvania |
| 2002 | Great Plains Center for Ag Health Activities (Nov 13-14)                           | Midwest Agricultural Health and Safety Forum<br>Amana Colonies, Iowa                       |
| 1997 | Biological Particulate Evaluations in Agricultural Environments (Feb)              | Applied Bioaerosols Workshop<br>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<br>Bethesda, Maryland |
| 2018        | Undiagnosed Chronic Respiratory Disease in Farmers | Agricultural Health and Safety Council of America<br>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>  |
|-------------|---|
| 2021        | Grant Review Panel – Total Worker Health Centers: National Institute for Occupational Safety and Health, Atlanta, GA              |
| 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          |
| 2017-present | Council of State and Territorial Epidemiologists          | 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-<br>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-<br>Present | Occupational Health SouthON, Coordinator and Sponsor, Council of State and Territorial Epidemiologists  |
| 2012-<br>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, 6 <sup>th</sup> 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, 5 <sup>th</sup> 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>  |
|-------------------|---|
| 2020-<br>Present  | Board of Advisors – Kentucky Injury Prevention and Research Center, University of Kentucky, Lexington, KY   |
| 2020-<br>Present  | Faculty Associate – Kentucky Injury Prevention and Research Center, University of Kentucky, Lexington, KY   |
| 2018 –<br>Present | Kentucky Master Naturalist Training Program – Cooperative Extension Service, College of Agriculture, Food, and Environment, University of Kentucky, Lexington, KY |
| 2018-<br>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-<br>Present  | College of Public Health Group Leader and Mentor, Shoulder to Shoulder Brigade, Santo Domingo, Ecuador – Public Health and Water Quality Concerns                 |
| 2016-<br>Present  | Shoulder to Shoulder Global, Board of Directors   |
| 2015-<br>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-<br>Present  | Kentucky Health & Medical Preparedness Committee (HMAPC)<br>Kentucky Department for Public Health                                       |
| 2016 –<br>Present | Board of Advisors for SER San Antonio – Nicaraguan Nephrotoxin Studies,<br>Managua, Nicaragua   |
| 2014 –<br>Present | Kentucky Public Health Assistance and Support Team (K-PHAST)<br>Kentucky Department for Public Health                                   |
| 2012 –<br>Present | Building Epidemiology Capacity in Kentucky (BECKY): Chair of Academic<br>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  |