

Kristina M. Zierold, PhD, MS

Department of Environmental Health Sciences
534C Ryals Public Health Building
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University of Alabama at Birmingham
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kzierold@uab.edu

EDUCATION AND TRAINING

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|-------------------------------------|---|
| 2001 - 2003 Post-doctoral | Epidemic Intelligence Service (EIS) Officer Centers for Disease Control and Prevention, Atlanta, Georgia → The Epidemic Intelligence Service is an elite team of doctoral level scientists who work on the frontlines of public health. Applying epidemiological and public health methods, EIS officers investigate disease outbreaks and clusters and respond to natural disasters, emergencies, and public health problems throughout the world. It is a two-year program. (Stationed: Wisconsin Department of Health Services Division Environmental and Occupational Health, Mentor: Henry A. Anderson, MD) |
| 1996 - 2001 Ph.D. | Environmental/Occupational Health Sciences and Epidemiology University of Illinois at Chicago, School of Public Health, Chicago, Illinois |
| 1994 - 1996 M.S. | Chemical Engineering (Environmental focus) Vanderbilt University, School of Engineering, Nashville, Tennessee |
| 1990 - 1994 B.S. | Chemical Engineering (Environmental focus) Worcester Polytechnic Institute, Worcester, Massachusetts |
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PROFESSIONAL EXPERIENCE

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| 06/2018 –current | Associate Professor (with tenure) Department of Environmental Health Sciences, University of Alabama Birmingham School of Public Health, Birmingham, AL. |
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- 07/2013-05/2018 **Associate Professor (with tenure)**
Department of Epidemiology and Population Health, University of Louisville
School of Public Health and Information Sciences, Louisville, KY.
- 07/2007 -06/2013 **Assistant Professor**
Department of Epidemiology and Population Health, University of Louisville
School of Public Health and Information Sciences, Louisville, KY.
- 08/2005 – 06/2007 **Research Assistant Professor**
Department of Family Medicine, Wake Forest University School of Medicine,
Winston-Salem, NC.
- 08/2003 – 07/2005 **Assistant Professor**
Department of Environmental Health Sciences, University of South Carolina,
Arnold School of Public Health, Columbia, SC.
- 07/2001 – 06/2003 **Epidemic Intelligence Service Officer**
Centers for Disease Control and Prevention, Atlanta, GA.
- 1997 - 2001 **Graduate Teaching Assistant,**
Division of Environmental/Occupational Health Sciences and Epidemiology and
Biostatistics, University of Illinois at Chicago, School of Public Health, Chicago,
IL.
- 1996 - 2001 **Graduate Research Assistant**
Division of Environmental/Occupational Health Sciences and Epidemiology and
Biostatistics, University of Illinois at Chicago, School of Public Health, Chicago,
IL.
- 1998 - 1999 **Course Instructor,** Lead Worker/Contractor Certification Programs
Great Lakes Center for Occupational and Environmental Health and Safety,
University of Illinois at Chicago, Chicago, IL.
- 1997, 1998 **Course Instructor,** Introduction to Particle Sampling Methods
Air Pollution Training Institute, University of Illinois at Chicago, Chicago, IL.
- 1995 **Research Assistant**
Nashville/Middle Tennessee Study Monitoring Particulate Matter, Air Pollution
Gases and Health. Harvard University School of Public Health, Nashville, TN.
- 1994 - 1996 **Graduate Teaching Assistant**
Department of Chemical Engineering, Vanderbilt University, Nashville, TN.

R03 OH008957 (PI: Zierold) CDC/NIOSH 09/2008 – 08/2010
Safety and Injury Among Teens Enrolled in School-To-Work Apprentice Programs.
Assessed the occupational safety and health and school performance of teens enrolled in school-to-work programs compared to other working teens and non-working teens. Also investigated the impact of multiple jobs on work-related injuries.
Role: Principal Investigator

JM Sims (PI: Zierold) J Marion Sims Foundation 06/2004 – 05/2005
Investigation of Common Characteristics Among Individuals with Neurodegenerative Diseases in Lancaster County, SC.
This was a cross-sectional study assessing environmental exposures and behavioral characteristics among individuals with neurodegenerative disorders.
Role: Principal Investigator

PEER-REVIEWED PUBLISHED MANUSCRIPTS

*Graduate or past graduate student co-authors

+ Equal contribution by authors

Author underlined is corresponding author

1. Sears CG*, Sears L, **Zierold KM**. Sex differences in the association between exposure to indoor particulate matter and cognitive control (age 6-14 years) living near coal-fired power plants. *Neurotoxicology and Teratology*, 2020; in press.
2. Konkle Stacey*, **Zierold KM**, Taylor K, Riggs D, Bhatnagar A. National secular trends in ambient air volatile organic compound levels and biomarkers of exposure in the United States. *Environmental Research*, 2020; in press.
3. Odoh C*+, Sears CG*, Tompkins LK*, Hagemeyer AN*, Pfeiffer JA*, Polivka BJ, Sears L, Brock GN, Zhang C, **Zierold KM**+. Recruitment strategies and challenges: Lessons learned from a coal ash and children's health study. *Research in Nursing and Health*, 2019; 42(6):446-457.
4. Hagemeyer AN*, Sears CG*, **Zierold KM**. Respiratory health in adults residing near a coal-burning power plant with coal ash storage facilities: A cross-sectional epidemiological study. *International Journal of Environmental Research and Public Health*, 2019 Sept 28, 16(19): 3642.
5. **Zierold KM**, Hagemeyer AN*, Sears CG*. Health symptoms among adults living near a coal-burning power plant. *Archives of Environmental and Occupational Health*, 2019 (in press).
6. Wu Y, Lu B, Zhu X, Wang A, Yang M, Gu S, Wang X, Leng P, **Zierold KM**, Li X, Tang, KK, Fang L, Huang R, Xu G, Chen L. Seasonal variations, source apportionment and health risk

- assessment of heavy metals in PM_{2.5} in Ningbo, China. *Aerosol and Air Quality Research*, 2019; 19: 2083-2092.
7. Allen S, Fanucchi MV, McCormick LS, **Zierold KM**. The search for environmental justice: The story of North Birmingham. *International Journal of Environmental Research and Public Health*, 2019 June, 16(12): 2117.
 8. Kotey S*, Carrico R, Weinkem TL, Furmanek S, Bosson R, Nyantakyis F, Vantleiden S, Mattingly W, **Zierold KM**. Elevated blood lead levels by length of time from resettlement to health screening in Kentucky refugee children. *American Journal of Public Health*, 2018; 108(2): 270-276.
 9. **Zierold KM**. Youth doing dangerous tasks: Supervision matters. *American Journal of Industrial Medicine* 2017; 60(9): 753-840.
 10. Sears CG*, **Zierold KM**. Health of children living near coal ash. *Global Pediatric Health* 2017; 4: 2333794X17720330, Published 2017 Jul 25. doi: 10.1177/2333794X17720330
 11. **Zierold KM**, Sears CG*, Brock GN. Exposure reducing behaviors among residents living near a coal ash storage site. *Health Education & Behavior* 2016; 43: 559-567.
 12. **Zierold KM**. Safety training for working youth: Methods used versus methods wanted. *Work*, 2016; 54(1):149-157.
 13. **Zierold KM**. Perceptions of supervision among injured and non-injured teens working in the retail or service industry. *Workplace Health and Safety* 2016; 64(4): 152-162.
 14. **Zierold KM** and McGeeney TJ.* Communication breakdown: How working teens' perceptions of their supervisors impact safety and injury. *Work* 2016; 54(1): 3-9.
 15. **Zierold KM** and Sears CG.* Community views about the health and exposure of children living near a coal ash storage site. *Journal of Community Health* 2015; 40(2):357-63.
 16. **Zierold KM**. Safety training among working teens: Training methods used, lessons taught, and time spent. *New Solutions* 2015; 25(1):25-41.
 17. **Zierold KM**, Sears CG.* Are healthcare providers asking about environmental exposures?: A community-based mixed methods study. *Journal of Environmental and Public Health*, 2015: pp 1-7 doi: 10.1155/2015/189526
 18. Welsh EC*, Appana S, Anderson HA, **Zierold KM**. The association between school-to-work programs and school performance. *Journal of Adolescent Health* 2014; 54(2):221-7.
 19. **Zierold KM**, Welsh EC*, McGeeney TJ.* Attitudes of teenagers towards workplace safety training. *Journal of Community Health* 2012; 37(6):1289-95.

20. **Zierold KM**, Appana S, Anderson HA. Working for mom and dad: Are teens more likely to get injured working in family-owned businesses? *Journal of Community Health* 2012; 37(1): 186-194.
21. **Zierold KM**, Appana S, Anderson HA. School-sponsored work programs: A first look at differences in work and injury outcomes of teens enrolled in school to work programs compared to other working teens. *Occupational and Environmental Medicine* 2011; 68(11): 818-825.
22. **Zierold KM**, Appana S, Anderson HA. Students enrolled in school-sponsored work programs: The effect of multiple jobs on workplace safety and school-based behaviors. *Wisconsin Medical Journal* 2011; 110(4): 171-177.
23. **Zierold KM**, Havlena J, Anderson HA. Lead exposure and length of time needed to make homes lead-safe for young children. *American Journal of Public Health* 2007; 97(2): 267-270.
24. **Zierold KM** and Anderson HA. Racial and ethnic disparities in work-related injuries among teenagers. *Journal of Adolescent Health* 2006; 39(3): 422-426.
25. **Zierold KM** and Anderson HA. Severe injury and the need for improved safety training among working students. *American Journal of Health Behavior* 2006; 30(5):525-532.
26. **Knobeloch, L, Zierold KM**, Anderson HA. The association of arsenic-contaminated drinking water with skin cancer prevalence in Wisconsin's Fox River Valley. *Journal of Health, Population and Nutrition* 2006; 24(2): 206-213.
27. **Zierold KM** and Anderson HA. The relationship between work permits, injury, and safety training among working teenagers. *American Journal of Industrial Medicine* 2006; 49(5): 360-366.
28. **Zierold KM**, Garman S, Anderson H. A comparison of school performance and behaviors among working and nonworking high school students. *Family and Community Health* 2005; 28(3): 214-224.
29. **Zierold KM**, Garman S, Anderson H. Summer work and injury among middle school students, aged 10-14 years old. *Occupational and Environmental Medicine* 2004; 61(6): 518-522.
30. **Zierold KM**, Knobeloch L, Anderson H. Prevalence of chronic diseases in adults exposed to arsenic contaminated drinking water. *American Journal of Public Health* 2004; 94(11): 1936-1937.
31. **Zierold KM** and Anderson H. Trends in blood lead levels among children enrolled in special supplemental nutrition program for women, infants, and children from 1996 to 2000. *American Journal of Public Health* 2004; 94(9): 1513-1515.
32. **Lipton RB, Zierold KM**, Drum ML, Klein-Gitelman M, and Kohrman AF. Re-hospitalization after diagnosis of diabetes varies by gender and socioeconomic status in urban African-American and Latino young people. *Pediatric Diabetes* 2002; 3(1): 16-22.

OTHER PUBLICATIONS

Zierold KM, Roth JA. 2000. Henry's law constants of selected VOC's: Correlation of VLE derived values and comparison with estimated values. In *Conference Proceedings Odors and VOC Emissions 2000*. Cincinnati, Ohio 16-19 April. Session 1-d. Water Environment Federation, pp. 43-69.

PEER-REVIEWED SCIENTIFIC MEETING PRESENTATIONS, ABSTRACTS

*Graduate student or past graduate student co-authors

1. **August 2019** Konkle SL*, **Zierold KM**, Taylor KC, Riggs DW, Bhatnagar A. National secular trends in ambient air volatile organic compound levels and biomarkers of exposure in the United States. Poster session at the International Society for Environmental Epidemiology Annual Meeting, Utrecht, the Netherlands.
2. **June 2019** Pfeiffer J*, Tompkins L*, Sears L, **Zierold K**. Coal fly ash, aluminum, and short-term memory among children 6-14 years old. Poster session at the Developmental Neurotoxicology Society Annual Meeting, San Diego, CA.
3. **November 2018** Pfeiffer J*, **Zierold K**, Sears L, Polivka B. Coal fly ash and wheezing among children 6-14 years old. Poster session at the American Public Health Association Annual Meeting, San Diego, CA.
4. **October 2018** Zhang C, Guinn B*, **Zierold K**. Spatial disparities in childhood blood lead poisoning in Louisville: Does Race Matter. Oral presentation at the Race, Ethnicity, and Place Conference IX. October 23-25, 2018, Austin, TX.
5. **September 2018** Konkle S*, Taylor K, Bhatnagar A, Groenewold M, **Zierold K**. Secular trends in volatile organic compound levels, biomarkers of exposure and associations with cardiometabolic syndrome: An analysis of data from the National Health and Nutrition Examination Survey (NHANES) and the National Monitoring Program (NMP). *Annals of Epidemiology* 2018, 28(9):660.
6. **June 2018** Sears L, Sears C*, Polvka B, **Zierold KM**. Reduced sustained attention in children exposed to aluminum in the home. Poster session at the Developmental Neurotoxicology Society Annual Meeting, Clearwater, FL.
7. **June 2018** Pfeiffer JA*, Sears L, Polivka B, **Zierold KM**. Coal fly ash and asthma among children 6-14 years old. Poster session at the Society for Epidemiologic Research Annual Meeting, Baltimore, MD.
8. **June 2018** Odoh CN*, Sears L, Brock GN, Polivka B, **Zierold KM**. Utility of the Behavioral Assessment and Research Systems (BARS) in measuring attention among children residing near coal ash storage sites. Poster session at the Society for Epidemiologic Research Annual Meeting, Baltimore, MD.

9. **June 2018** Odoh CN*, Sears L, Brock GN, Polivka B, **Zierold KM**. Elemental exposure to copper and Attention Deficit Hyperactivity Disorders (ADHD) among children in proximity to coal ash storage sites. Poster session at the Society for Epidemiologic Research Annual Meeting, Baltimore, MD.
10. **June 2018** Odoh CN*, Sears L, Brock GN, Polivka B, **Zierold KM**. Autism-like behavior(s) and exposure to pollutants among underserved children in Kentucky. Poster session at the Society for Society for Pediatric and Perinatal Epidemiologic Research, Baltimore, MD.
11. **March 2018** Tompkins LK*, Odoh CN*, **Zierold KM**. The health and exposure histories of one community battling environmental discrimination. Poster session at the American Academy of Health Behavior Annual Meeting, Portland, OR.
12. **March 2018** Odoh C*, Sears L, Hanchette C, Polivka B, Brock G, **Zierold KM**. Attention deficit hyperactivity disorders and aluminum exposure among underserved children in Kentucky. Poster session at the American Academy of Health Behavior Annual Meeting, Portland, OR.
13. **November 2017** **Zierold KM**, Hanchette C, Polivka B, Sears L. Fly ash and problematic behaviors in a sample of children aged 6-14. Poster session at the American Public Health Association Annual Meeting, Atlanta, GA.
14. **June 2017** Sears L, Koloff L*, Hanchette C, Polivka B, **Zierold KM**. Effect of manganese body burden on fine motor skills in children aged 6-14 years. Oral session at the Developmental Neurotoxicology Society Annual Meeting, Denver, CO.
15. **June 2017** Hagemeyer AN*, Sears L, Polivka B, Brock G, Hanchette C, **Zierold KM**. Association between metal exposure and depression problems in children residing near coal ash storage facilities. Poster session at the Society for Epidemiologic Research Annual Meeting, Seattle, WA.
16. **June 2017** Hagemeyer AN*, Sears L, Polivka B, Brock G, Hanchette C, **Zierold KM**. Association between metal exposure and anxiety problems in children residing near coal ash storage facilities. Poster session at the Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Seattle, WA.
17. **June 2017** Odoh C*, Sears L, Hanchette C, Brock G, Polivka, B, **Zierold KM**. Fly ash exposure and social functioning in children. Poster session at the Society for Epidemiologic Research Annual Meeting, Seattle, WA.
18. **April 2017** **Zierold KM**, Polivka BJ, Hanchette CL, Brock GN, Sears LL. Fly ash exposure and social competence in children 6-14. Oral session at the Children's Environmental Health Network Conference, Arlington VA.

19. **April 2017** Sears CG*, Burns AN*, **Zierold KM**. Health of children living near coal ash. Oral session at the Children’s Environmental Health Network Conference, Arlington VA.
20. **April 2017** Tompkins LK*, Sears LL, Hanchette CL, Polivka BJ, Brock GN, **Zierold KM**. Levels of metals in nails of children living near coal burning power plants. Poster session at the Children’s Environmental Health Network Conference, Arlington VA.
21. **March 2017** Tompkins LK*, LL Sears, Lorenz DJ, Hanchette CL, Polivka BJ, Brock GN, **Zierold KM**. Fly ash presence in homes and children’s memory and fine motor skills test performance. Poster session at the American Academy of Health Behavior Annual Meeting, Tucson, AZ.
22. **November 2016** Burns AN*, Sears CG*, **Zierold KM**. Self-reported respiratory illness in adults living in the surrounding area of a coal ash storage facility. Poster session at the American Public Health Association Annual Meeting, Denver, CO.
23. **June 2016** Sears CG*, Sears LL, Hanchette CL, Polivka BJ, **Zierold KM**. Identifying attention problems in children and adolescents with the Behavioral Assessment Research System (BARS). Poster session at the Developmental Neurotoxicology Society Annual Meeting, San Antonio, TX.
24. **June 2015** Sears CG,* Brock GN, and **Zierold KM**. Mental well-being of adults residing near coal ash storage facility. Poster session at the Society for Epidemiological Research Annual Meeting, Denver, CO.
25. **June 2015** Sears CG* and **Zierold KM**. Sleep disruptive behaviors reported in children residing near a coal ash storage facility. Poster session at the Society for Epidemiological Research Annual Meeting, Denver, CO.
26. **March 2014** **Zierold KM** and Sears CG.* Exposure reducing behaviors among residents living near a coal ash storage site. Poster session at the American Academy of Health Behavior Annual Meeting, Charleston, SC.
27. **March 2014** **Zierold KM** and Sears CG.* Are healthcare providers asking the right questions of people living near environmental hazards? Poster session at the American Academy of Health Behavior Annual Meeting, Charleston, SC.
28. **November 2013** Sears CG* and **Zierold KM**. A community-based approach to assessing emotional and behavioral disorders in children chronically exposed to coal ash. Poster session at the American Public Health Association Annual Meeting, Boston, MA.
29. **September 2013** Sears CG* and **Zierold KM**. Coal ash exposure and health in West Louisville, KY: a community-based mixed-methods study. Poster session at Research! Louisville.

30. **November 2011** Welsh EC*, McGeeney TJ*, **Zierold KM**. Healthy communication between parents and working teens and its influence on work-related injury. Oral session at the American Public Health Association Annual Meeting, Washington, DC.
31. **November 2011** Welsh EC*, McGeeney TJ*, **Zierold KM**. Knowledge of US child labor laws and influence on work-related injury among working teenagers. Poster session at the American Public Health Association Annual Meeting. Washington, DC.
32. **November 2011** Welsh EC*, McGeeney TJ*, **Zierold KM**. Evaluation of safety training for teenagers in regards to dangerous situation response for injury prevention. Poster session at the American Public Health Association Annual Meeting. Washington, DC.
33. **November 2011** Welsh EC*, McGeeney TJ*, **Zierold KM**. Use of dangerous equipment in the workplace and safety training: Effects on work-related injury in teenagers. Poster session at the American Public Health Association Annual Meeting, Washington, DC.
34. **November 2011** McGeeney TJ*, Welsh EC*, **Zierold KM**. Injury severity among working teenagers as related to safety training. Poster session at the American Public Health Association Annual Meeting, Washington, DC.
35. **November 2011** McGeeney TJ*, Welsh EC*, **Zierold KM**. Quality of supervision and injury among teenagers in the workplace. Poster session at the American Public Health Association Annual Meeting, Washington, DC.
36. **October 2011** **Zierold KM**, Welsh EC*, McGeeney TJ*. What makes safety training effective in preventing injury among young workers? Poster session at the 2011 National Occupational Injury Research Symposium, Morgantown, WV.
37. **October 2011** **Zierold KM**, McGeeney TJ*, Welsh EC*. The role of supervisors in preventing injury among working teens. Poster session at the 2011 National Occupational Injury Research Symposium, Morgantown, WV.
38. **September 2011** Welsh EC*, McGeeney TJ*, **Zierold KM**. Racial differences in supervision among teens injured at work. Poster session at the National Institute for Occupational Safety and Health: Eliminating Health and Safety Disparities at Work Conference, Chicago, IL.
39. **September 2011** McGeeney TJ*, Welsh EC*, **Zierold KM**. Gender disparities in risk-taking tendencies and workplace injury among teenagers. Poster session at the National Institute for Occupational Safety and Health: Eliminating Health and Safety Disparities at Work Conference, Chicago, IL.
40. **March 2011** **Zierold KM**, McGeeney TJ*. The role of safety training in preventing workplace injuries in teenagers. Poster session at the American Academy of Health Behavior Annual Meeting, Hilton Head, SC.

41. **November 2010 Zierold KM**, Appana S, Anderson HA. Are teens who work in family-businesses more likely to engage in hazardous tasks and be injured compared with other working teens? Oral session at the American Public Health Association Annual Meeting, Denver, CO.
42. **November 2010** Appana S, Anderson HA, **Zierold KM**. Poor academic success for students in school-based work programs: How much work is too much. Poster session at the American Public Health Association Annual Meeting, Denver, CO.
43. **November 2010 Zierold KM**, Appana S, Anderson HA. Injuries among high school teens enrolled in work-based learning programs and the effect of multiple jobs on injury occurrence. Poster session at the American Public Health Association Annual Meeting, Denver, CO.
44. **November 2010** McGeeney TJ* and **Zierold KM**. Supervision in the workplace: Shaping teenagers' perception of safety and reporting of injury. Poster session at Research! Louisville.
45. **November 2009 Zierold KM**, Appana S, Anderson HA. Does the School-to-Work program protect teens from work-related injury? Roundtable session at the American Public Health Association Annual Meeting, Philadelphia, PA.
46. **November 2009 Zierold KM**, Appana S, Anderson HA. Impact of participation in the School-To-Work program on teen's academic performance and school-based behaviors. Poster session at the American Public Health Association Annual Meeting, Philadelphia, PA.
47. **September 2009 Zierold KM**, Anderson HA. Working for mom and dad: The price kids pay. *Annals of Epidemiology* 2009; 19(9):660.
48. **November 2008** Howard JM*, Watson LG, **Zierold KM**, Carreon, LY. Nuchal translucency and Down syndrome prenatal screening methods provided by OB-GYN physicians to expectant mothers in Kentucky. Poster session at the American Public Health Association Annual Meeting, San Diego, CA.
49. **November 2006 Zierold KM**, Anderson HA, Havlena J. Length of time needed to make homes lead-safe for children aged 0-6 years with elevated blood lead levels. Oral session at the American Public Health Association Annual Meeting, Boston, MA.
50. **November 2006 Zierold KM** and Anderson HA. Racial and ethnic disparities in work-related injuries among teenagers. Oral session at the American Public Health Association Annual Meeting, Boston, MA.
51. **November 2004 Zierold KM**, Garman S, Anderson H. Do work permits keep teen workers safe? Oral session at the American Public Health Association Annual Meeting, Washington, DC.

52. **November 2003 Zierold KM**, Garman S, Anderson H. Summer work and injury among middle school students, 2001. Oral session at the American Public Health Association Annual Meeting, San Francisco, CA.
53. **October 2003 Zierold KM**, Garman S, Anderson H. Summer work and injury among youth on family farms. Oral session at the National Occupational Injury Research Symposium, Pittsburgh, PA.
54. **April 2003 Zierold KM**, Garman S, Anderson H. Summer work and injury among middle school students aged 10-14 years old-Wisconsin, 2001. Oral session at the Annual Epidemic Intelligence Service Conference, Atlanta, GA.
55. **November 2002 Zierold KM**, Garman S, Anderson H. Factors associated with severe injury in working youth. Oral session at the American Public Health Association Annual Meeting, Philadelphia, PA.
56. **June 2002 Zierold KM**, Havlena J, Anderson H. The rate of decline of blood lead levels in lead poisoned population of children 0-6 years old. Poster session at the Society for Epidemiological Research Annual Meeting, Palm Desert, CA.
57. **June 2002 Zierold KM** and Garman S. Summer employment and occupational injuries for Wisconsin middle and high school students. Oral session at the Council of State and Territorial Epidemiologists Annual Meeting, Kansas City, MO.
58. **April 2002 Zierold KM**, Havlena J, Anderson H. Rate of blood lead level decline among a lead poisoned population of children < 6 years old, Wisconsin, 1995. Poster session at the Annual Epidemic Intelligence Service Conference, Atlanta, GA.
59. **June 2001 Wadden R, Zierold KM**, Franke J, Conroy L, Scheff P, Theilen B. Estimation of personal exposures from a flux-cored arc welding operation. Oral session at the American Industrial Hygiene Conference, New Orleans, LA.
60. **April 2000 Zierold KM**, Roth JA. Henry's law constants of selected VOCs: Correlation of VLE derived values and comparison with estimated values. In Proceedings of the Water Environment Federation Odors and VOC Emissions 2000 Specialty Conference, Cincinnati, OH: 16-18 April 2000.
61. **Nov. 1999 Patel A**, Keenan H, Lipton R, **Zierold KM**, Stolte K, Chambers E, Onyemere K. Risk for diabetes complications by SES in inner-city minority children. American Public Health Association Annual Meeting, Chicago, IL.
62. **June 1999 Zierold KM**, Lipton RB, Keenan H, Patel A. Do minority children and families feel the need for more diabetes education? Poster session at the American Diabetes Association Annual Meeting, Chicago, IL.

63. **Zierold KM**, Lipton RB, Keenan H, Patel A. Do minority children and families feel the need for more diabetes education? *Diabetes* 1999; 48(5): SA387.
64. **June 1999** Lipton RB, Keenan H, **Zierold K**. Stable 10-year incidence of insulin-treated diabetes in minority children despite changing diagnostic practices. American Diabetes Association Annual Meeting, Chicago, IL.
65. **June 1999** Patel A, Lipton R, Keenan H, **Zierold K**, Chambers E, Stolte K. Is pubertal onset associated with complications in minority children with diabetes? *American Journal of Epidemiology* 1999; 149(11 suppl).
66. **June 1999** Keenan H, Lipton R, **Zierold KM**, et al. What proportion of diabetes in minority young people is actually type 2? *American Journal of Epidemiology* 1999; 149(11 suppl).
67. **June 1998** **Zierold KM** and Conroy L. Size selective particle sampling. Poster session at the American Industrial Hygiene Conference and Exposition, Atlanta, GA.
68. **June 1996** **Zierold KM** and Roth J. Henry's law constants for volatile organic compounds. Poster session at the American Institute of Chemical Engineers Annual Meeting, Chicago, IL.

INVITED TALKS AND PRESENTATIONS

December 12, 2017 Zierold KM. *From mountaintop mining to coal ash: Understanding possible health implications.* Partnerships for Environmental Public Health (PEPH). National Institute of Environmental Health Sciences.

https://www.niehs.nih.gov/research/supported/translational/peph/webinars/coal_ash/index.cfm

April 17, 2015 Zierold KM. *Environmental factors and autism.* Pediatric Clinical Pharmacology Symposium, University of Louisville.

TEACHING AND MENTORING

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

ENH621 – Fundamentals of Industrial Hygiene (Fall 2018, On-line, N=5)

ENH660 – Fundamentals of Air and Water Pollution (Spring 2019, In-class, N=20)

ENH697 – Internship (Fall 2019, N=1)

ENH697 – Internship (Spring 2020, N=1)

THE UNIVERSITY OF LOUISVILLE

PHEP 620 – Environmental and Occupational Epidemiology (Fall 2008, Spring 2011, Spring 2018)
 PHEP 617 – Field Epidemiology (Spring 2008, 2009, 2010, 2012, 2014, 2015)
 PHEP 655 – Emerging Issues in Epidemiology (Spring 2010)
 PHEP 750 – Seminar in Epidemiology (Research and Work Involving Vulnerable Populations, Fall 2010)
 PHEP 778 – Research and Readings in Epidemiology/Independent Study (Multiple semesters and years)

THE UNIVERSITY OF SOUTH CAROLINA

ENHS 760 - Fundamentals of Air Pollution (Fall 2004)
 ENHS 762 - Fundamentals of Industrial Hygiene (Spring 2004)

THE UNIVERSITY OF ILLINOIS AT CHICAGO

University Of Illinois at Chicago, School Of Public Health, Professional Development Courses

- Course Instructor, Lead Worker/Contractor Certification Programs for the Great Lakes Center for Occupational and Environmental Health and Safety
- Course Instructor, Introduction to Particle Sampling Methods for the Air Pollution Training Institute

ADVISING AND MENTORING OF STUDENTS

| PhD Students – Committee Chair | | | | |
|---------------------------------------|--------------------|---|-------------------------|--|
| Name | Degree Date | Title of Dissertation | Department | Outcomes After Graduation |
| Stacey Konkle | Expected May 2020 | Volatile organic compound exposure and cardiometabolic syndrome risk in a nationally representative cohort. | Louisville Epidemiology | Accepted, Epidemic Intelligence Service, CDC |
| Lindsay Tompkins | May 2019 | Evaluation of the health and exposure histories of a community surrounded by industry and industrial waste: A mixed methods approach. | Louisville Epidemiology | Epidemic Intelligence Service, CDC |
| Brian Guinn | December 2018 | Lead and crime: An ecological study between lead contaminated topsoil and violent crime. | Louisville Epidemiology | Post-doctoral Position – University of Louisville |
| Chisom Odoh | July 2018 | Coal ash exposure and behavioral impairments among children in Louisville, Kentucky. | Louisville Epidemiology | Post-doctoral Position – University of Houston Assistant Professor – University of North Texas-Denton |

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| Clara Sears | May 2017 | The particulars about particulates: Exposure to metals and self-regulation of children living near coal ash storage. | Louisville Epidemiology | Post-doctoral Position- Brown University |
| Abby Burns | May 2017 | Pediatric anxiety and/or depression problems: Associations with PM10, fly ash, and metal exposure. | Louisville Epidemiology | CSTE/CDC Fellowship Ohio Department of Health |

| PhD Students – Committee Member | | | | |
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| Name | Degree Date | Title of Dissertation | University Department | Outcome After Graduation |
| Margaret Summers | Expected May 2020 | ACF for dual use in respirators. | UAB Environmental Health Sciences | |
| Colette Davis | May 2019 | The SHAPE Study – Survey of Health and the Perceived Environment Study. | Louisville Epidemiology | Post-Doctoral Position- Fred Hutchinson Cancer Research Center |
| James Kent Pugh | December 2017 | Moving mountains: An examination of the longitudinal impacts of mountaintop removal coal mining on mortality in the Appalachian region using Geographic Information Sciences techniques. | Louisville Sociology | Statistician/ Demographer U.S. Census Bureau |
| Christa Moore | August 2016 | Identifying gaps in collaborative exchange among human services organizations. | Louisville Sociology | Assistant Professor, Dept of Sociology, The University of Virginia, College of Wise |

| MS Students – Committee Chair | | | | |
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| Name | Degree Date | Title of Thesis | University Department | Outcome After Graduation |
| Jack Pfeiffer | August 2017 | Coal ash exposure and childhood asthma. | Louisville Epidemiology | PhD Program, University of Louisville, Epidemiology |
| Lindsay Tompkins | August 2016 | Coal ash exposure and neurobehavioral performance. | Louisville Epidemiology | PhD Program, University of Louisville Epidemiology |
| Clara Sears | May 2014 | Sleep disorders and chronic coal ash exposure. | Louisville Epidemiology | PhD Program, University of Louisville Epidemiology |
| Teresa McGeeney | August 2010 | Teenagers' safety at work: Dangerous tasks and safety training. | Louisville Epidemiology | PhD Program, University of Louisville Epidemiology |

| MS Students – Committee Member | | | | |
|---------------------------------------|--------------------|---|------------------------------|---|
| Name | Degree Date | Title of Thesis | University Department | Outcome After Graduation |
| James Kent Pugh | May 2014 | Health of coal mining communities in Eastern Kentucky: Changes over time. | Louisville Sociology | PhD Program, University of Louisville Sociology |
| Sheng Xu | May 2013 | Applying generalized estimating equations to dental data. | Louisville Biostatistics | Unknown |

| MPH Students Academic Advisor and Internship Advisor | | | |
|---|--------------------|-----------------------------------|------------------------------|
| Name | Degree Date | Practicum Topic/Internship | University Department |
| Rose Albert | Current | | UAB Environmental Health |
| Jessica Anders | Current | | UAB Environmental Health |
| Lisa Ennis | Current | | UAB Environmental Health |
| Jennifer Hayden | Current | | UAB Environmental Health |
| Allyshia Hinton | Current | | UAB Environmental Health |

| | | | |
|------------------|---------------|--|--------------------------|
| Pauline Kayita | Current | | UAB Environmental Health |
| Wei-Siou Lin | December 2019 | Safety training program, Cahaba Valley Health Care | UAB Environmental Health |
| Christy McDonald | Current | | UAB Environmental Health |
| Brooke Moore | Current | | UAB Environmental Health |
| Alex Watson | Current | Occupational and Environmental Health Assistant, American River Parkway Foundation | UAB Environmental Health |
| Susana Weyer | Current | | UAB Environmental Health |
| James Grant | May 2012 | Health services needs at a local community outreach center, Louisville, KY | Louisville Epidemiology |
| Todd Gibson | May 2010 | Dental health of children in Appalachia | Louisville Epidemiology |
| Vanita Farrow | May 2009 | Dental services at the Kentucky state fair, Louisville, KY | Louisville Epidemiology |
| Michael Cannell | May 2009 | Northern Kentucky health department – various projects, Florence KY | Louisville Epidemiology |
| Jennifer Howard | May 2008 | Downs Syndrome of Louisville, Louisville, KY | Louisville Epidemiology |

HONORS AND AWARDS

- 2019 NIH Loan Repayment Program Research Awardee, July 2019 (Pediatric Research)
- 2018 NIH Loan Repayment Program Research Awardee, July 2018 (Pediatric Research)
- 2017 NIH Loan Repayment Program Research Awardee, July 2017 (Pediatric Research)
- 2017 Nominee, Outstanding Mentor of a Doctoral Student Award, May 2017
- 2016 NIH Loan Repayment Program Research Awardee, July 2016 (Pediatric Research)
- 2016 University Outstanding Faculty Mentor, Recognized May 18, 2016
- 2013-2014 Faculty Favorite, “An outstanding professor nominated by students,” Delphi Center for Teaching and Learning, University of Louisville
- 2011-2012 Faculty Favorite, “An outstanding professor nominated by students,” Delphi Center for Teaching and Learning, University of Louisville

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| 2010-2011 | Faculty Favorite, “An outstanding professor nominated by students,” Delphi Center for Teaching and Learning, University of Louisville |
| 2009 | Nominee, Provost Award for Exemplary Advising, University of Louisville |
| 2002 | Student elect to Delta Omega (National Honor Society in Public Health) |
| 1996-2001 | National Institute for Occupational Safety and Health (NIOSH) Fellowship |
| 1998 | American Industrial Hygiene Foundation (AIHF) Fellowship |
| 1994 | Central New England AIChE Award for Significant Contribution |

PROFESSIONAL SERVICE ACTIVITIES

NATIONAL SERVICE

| | |
|---------------|--|
| 2018-current | Reviewer, abstracts for EHS Section for the American Public Health Association (APHA) annual meeting |
| 2013 -current | Reviewer, abstracts for American Academy of Health Behavior (AAHB) annual meeting |
| 2013-current | Associate Editor, Health Behavior and Policy Review |
| 2013, 2014 | Reviewer, abstract for Society for Epidemiologic Research (SER) annual meeting |
| 2010-current | Reviewer, abstracts for OSH Section for the American Public Health Association (APHA) annual meeting |
| 2009, 2010 | Reviewer, applicants for the ASPH/CDC Allan Rosenfield Global Health Fellowship Program |
| 2009 | Reviewer, NIH Challenge Grants: ZRG1 PSE-C58 and ZRG1 PSE-J58 |
| 2008 | Reviewer, applicants for the ASPH/CDC/ATSDR Public Health Fellowship Program |
| 2008-current | Mentor, Delta Omega |
| 2004-2006 | Resource group member, environmental health sciences, ASPH education committee. Master’s degree in public health core competency development project, October 2004 - August 2006 |

Ad-hoc Reviewer

American Journal of Public Health, Occupational and Environmental Medicine, American Journal of Preventative Medicine, American Journal of Industrial Medicine, American Journal of Health Behavior, Health Behavior Research, Health Behavior and Policy Review, Journal of Adolescent Health, Social Science and Medicine, PLOS One, Qualitative Health Research, Bulletin of Environmental Contamination and Toxicology

UNIVERSITY OF ALABAMA AT BIRMINGHAM

School of Public Health Service

| | |
|-----------------|--|
| 07/2019-current | Educational Policy Committee (alternate) |
| 09/2018-11/2019 | Member, Grant Writing Course for Doctoral Students Committee |
| 07/2018-current | Member, Admissions and Graduation Committee |
| 07/2018-current | Faculty Affairs Committee (alternate) |

Departmental Service

| | |
|-----------------|--|
| 12/2019-current | Program Director, MS Environmental and Occupational Health Sciences |
| 10/2019-current | Member, EHS Department Chair Search Committee |
| 08/2019-current | Program Director, MPH Environmental and Occupational Health Sciences |
| 10/2018-current | Chair, EHS Curriculum Committee |
| 08/2018-current | Chair, EHS Tenure-Track Faculty Search Committee (Research focus) |
| 07/2018-06/2019 | Member, EHS Tenure-Track Faculty Search Committee (Research focus) |
| 06/2018-current | Member, Department Faculty Affairs Committee |
| 06/2018-09/2019 | Member, EHS Department Chair Search Committee |
| 06/2018-11/2018 | Member, EHS Teaching Faculty Search Committee |

SERVICE RESPONSIBILITIES AT PRIOR POSITIONS

University Service

| | |
|------------|--|
| 2017-2018 | Reviewer, Jewish Heritage Foundation Grant Proposals, University of Louisville |
| 2017-2018 | Member, Faculty Senate, Ad-hoc Budget Committee, University of Louisville |
| 2016-2018 | Member, Faculty Senate, University of Louisville |
| 2012-2018 | Member, University of Louisville Minors on Campus Working Group |
| 2013 | Member, University of Louisville Distinguished Faculty Award in Service Screening Committee |
| 2011-2012 | Member, University of Louisville Gift Card Committee |
| 2008, 2012 | Judge, Research Louisville! |
| 2008, 2009 | Member, University of Louisville Distinguished Faculty Award in Teaching Screening Committee |

School of Public Health Service

- 2008-2012, 2015-2016 Organizer, School of Public Health holiday drive for foster children at Home of the Innocents, University of Louisville
- 2013-2014 Member, University of Louisville SPHIS West Louisville Working Group
- 2007-2013 Member, School of Public Health Student Affairs Advisory Group, University of Louisville
- 2012 Organizer, School of Public Health collection for tornado victims living in Kentucky and Indiana, University of Louisville
- 2008-2010 Member, School of Public Health Diversity Committee, University of Louisville
- 2008 Judge, School of Public Health Middle School Essay Contest, University of Louisville
- 2004-2005 Member, University of South Carolina SPH IT Committee
- 2003-2005 Member, University of South Carolina SPH Evaluation Committee
- 2003-2005 Member, University of South Carolina SPH Graduate Admissions Committee
- 2004 Environmental Health Session Leader, University of South Carolina Public Health Camp (grades 5-8)

Departmental Service

- 2016-2017 Chair, Handbook Revision Committee, University of Louisville
- Spring 2017 Chair, Associate/Full Tenure Track Faculty Search Committee, University of Louisville
- 2016-2017 Chair, Open-Rank Tenure Track Faculty Search Committee, University of Louisville
- 2015, 2017 Chair, Candidacy Exam Committee, University of Louisville
- 2011, 2015-16 Chair, Proficiency Exam Committee, University of Louisville
- 2008-2018 Member, Department of Epidemiology Proficiency/Candidacy Exams Committee, University of Louisville
- 2007-2018 Member, Department of Epidemiology Admissions Committee, University of Louisville
- 2004-2005 Advisor, University of South Carolina Environmental Health Graduate Student Organization

MEDIA

Travis Loller (August 28, 2019). Sick and dying workers demand help after cleaning coal ash. *The Chicago Tribune*. <https://www.chicagotribune.com/sns-bc-us--coal-ash-illnesses-20190828-story.html>

Danielle Grady (December 12, 2018). *Coal ash legacy, new study focuses on children*. Leo Weekly. <https://www.leoweekly.com/2018/12/coal-ash-legacy-new-study-focuses-children/>

James Bruggers (December 4, 2018). *A Coal Ash Spill Made These Workers Sick. Now, They're Fighting for Compensation*. *Inside Climate Change News*. <https://insideclimatenews.org/news/04122018/toxic-coal-ash-spill-illness-verdict-kingston-tennessee-cleanup-workers-compensation>
The Allegheny Front. <https://www.alleghenyfront.org/a-coal-ash-spill-made-these-workers-sick-now-theyre-fighting-for-compensation/>

Ryan Van Velzer (July 24, 2018). *After Years Of Coal Ash Exposure, Scientists Assess Health Of Cane Run Neighbors*. 89.3 WFPL. <http://wfpl.org/after-years-of-coal-ash-exposure-scientists-assess-health-of-cane-run-neighbors/>

Chris Williams (August 23, 2017). *UofL studies health impact of coal fired power plants*. WHAS 11. <http://www.whas11.com/news/local/uofl-studies-health-impact-of-coal-fired-power-plants/466772689>

Andreina Centlivre (June 9, 2017) *Local study measures health risks for children living near coal ash*. WAVE 3. <http://www.k5thetohometeam.com/story/35578505/local-study-measures-health-risks-for-children-living-near-coal-ash>

James Bruggers (April 24, 2017) *Coal ash and kids health. U of L research hopes study uncovers impact data*. The Courier Journal Newspaper.

James Bruggers (April 17, 2017) *U of L studies how coal ash affects kid's health*. Courier Journal. <http://www.courier-journal.com/story/tech/science/environment/2017/04/17/u-l-studies-how-coal-ash-affects-kids-health/100568932/>

Erica Peterson (April 20, 2017). *Study seeks to determine health effects of coal ash on Louisville kids*. Environment, 89.3 WFPL. <http://wfpl.org/study-seeks-determine-health-effects-coal-ash-louisville-kids/>

Courier Journal (December 29, 2016). *Ky. shouldn't ease coal ash rules | Editorial*. <http://www.courier-journal.com/story/opinion/editorials/2016/12/21/ky-shouldnt-ease-coal-ash-rules-editorial/95629588/>

Lombardi, Kristen (July 20, 2016). *Former cleanup workers blame illnesses on toxic coal ash exposures*. Center for Public Integrity. <https://www.publicintegrity.org/2016/07/20/19962/former-cleanup-workers-blame-illnesses-toxic-coal-ash-exposures>

Joe Wertz (June 30, 2016). *Coal ash bedevils Oklahoma town, revealing weakness of EPA rule*. State Impact, Oklahoma Public Radio. <https://stateimpact.npr.org/oklahoma/2016/06/30/coal-ash-bedevils-oklahoma-town-revealing-weakness-of-epa-rule/>

Lombardi, Kristen (June 30, 2016). *Coal ash bedevils Oklahoma town, revealing weakness of EPA rule*. Center for Public Integrity. <https://www.publicintegrity.org/2016/06/30/19829/coal-ash-bedevils-oklahoma-town-revealing-weakness-epa-rule>

Pittman, Genevra (December 2, 2011). *Arsenic in water tied to breathing issues*. Reuter's Health.
<http://www.reuters.com/article/2011/12/02/us-arsenic-issues-idUSTRE7B12E620111202>

Mills, Shamane (September 12, 2011). *Students who work more than one job more likely to be injured*. Wisconsin Public Radio. <http://www.wpr.org/listen/451211>

Ungar, Laura (October 15, 2007). *Cancer death rates are dropping, But Kentucky's figure remains highest in nation*. The Courier Journal, newspaper.

Adler, Tina (June 2007). *Lead: Dangerous Wait*. Environmental Health Perspectives.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1892110/>

Norton, Amy (August 31, 2006). *Teenagers commonly hurt on the job*. Reuter's Health.
<http://www.medicineonline.com/news/12/5814/Teenagers-commonly-hurt-on-the-job.html>