Kristen Good, MEM, PhD
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SUMMARY/BIOGRAPHY:

Dr. Kristen Good is an epidemiologist and public health professional with 15+ years of scientific background and experience in risk assessment, toxicology, exposure assessment, and environmental sciences, across academia/research, private industry, and government sectors. Dr. Good is passionate about identifying data-driven, scientifically-supported solutions to complex problems - and communicating those solutions to stakeholders and the public. She has a PhD in Environmental Health with an epidemiology concentration from Colorado State University and a Master's degree in Environmental Management, toxicology focus, from Duke University.

Dr. Good has served as the leading technical authority in occupational health and indoor air quality at the Colorado Department of Public Health and Environment (CDPHE) since 2020. She manages the state's indoor air quality improvement programs and occupational health surveillance and response initiatives. She regularly advises partners, workplace managers, and the general public on health and safety regulations and best practices, PPE and administrative controls to reduce exposures/safety risks, employer liabilities related to occupational health and safety, and post-incident response related to a variety of occupational health and safety concerns and scenarios. Dr. Good has testified at the Colorado state senate on topics of mold exposures and wildfire smoke. From 2020-2022, Dr. Good led the Industry Response Team of the state's COVID-19 pandemic response. She was responsible for advising on workplace outbreak prevention, investigation, and response for hundreds of workplace outbreaks, and employer responsibility across a wide variety of industry sectors. She also worked with the Governor's Office and other state agencies on COVID-19 guidance and policy development.

Prior to her role at CDPHE, Dr. Good conducted research related to air pollution exposures and cardiorespiratory health, pairing rigorous epidemiologic methods for human subjects research with sophisticated aerosol exposure measurements. She also spent several years as a human health risk assessor in private-sector consulting, applying of risk assessment processes to toxic tort litigation related to occupational exposures to asbestos and benzene, and conducting hazard identifications, exposure assessments, and risk analyses for federal programs including USDA's National Organic Program and the U.S. EPA's Integrated Risk Information System (IRIS) and Superfund Programs.

EXPERIENCE:

RedSpire LLC
Principal Health Scientist, co-founder   2025 – current

Colorado Department of Public Health and Environment (CDPHE)
Disease Control and Public Health Response Division
Health Equity Branch Deputy Chief   2021 – current
Occupational Health & Indoor Air Quality Practice Areas Lead   6/2021 – current
COVID-19 Response Industry Team Lead/Subject Matter Expert   3/2020 – 6/2022

Colorado State University / Colorado School of Public Health
Postdoctoral Fellow, Epidemiology   2018 – 2021

KDA Scientific
Principal Health Scientist   2019

Cardno ChemRisk, Epidemiology/Exposure Assessment Division
Senior Associate Health Scientist   2013 – 2015

Colorado State University
Research Study Participant Coordinator   2013

ICF International, Risk & Toxicology Division
Associate Consultant   2011 – 2013

Duke University
Research Assistant, Malaria Decision Analysis Support Tool project   2009 – 2011

Boston College, Duke University, Colorado State University
Field Technician, various Ecology and Public Health projects   2010 – 2016

EDUCATION/DEGREES:

Ph.D., Environmental Health - Colorado State University   2018
(epidemiology concentration)
M.E.M., Environmental Management - Duke University   2011
(toxicology/environmental health concentration)
B.S., Biology - Boston College   2009
(environmental studies minor)

PROFESSIONAL HONORS/AWARDS:

CDPHE Department-wide Annual "Health Equity and Environmental Justice Award" winner	Dec 2025
CDPHE Department-wide Annual "Exemplifying Public Health Award" nominee	October 2023
CDPHE DCPHR Division "Star Award"	July 2023
CDPHE Executive Director's Performance Award	September 2020
CSU Office of the Vice President for Research (OVPR) Fellowship	2017 – 2018
CSU Ventures Annual Demo Day 2nd Place "People's Choice" Best Poster Award	2017
CSU Graduate Student Council Conference Travel Funds Awardee	2017
CSU ERHS Department Graduate Student Travel Grant Recipient	2015, 2016
Duke Global Health Initiative Summer Project Funds Recipient	2010
Nicholas School Environmental Internship Fund Recipient	2010
Lazar Foundation International Research Scholarship	2010
Boston College Undergraduate Research Fellowship, Molecular Genetics	2006 – 2009

PROFESSIONAL MEMBERSHIPS AND SERVICE TO PROFESSIONAL SOCIETIES:

Past and current memberships: American Industrial Hygiene Association, Society of Toxicology, International Society for Environmental Epidemiology, Society for Risk Analysis

SIGNIFICANT PROJECTS:

Industrial Hygiene, Exposure Monitoring, and Exposure Modeling

Traffic-Related Air Pollutants

Managed participant recruitment, informed consent, and scheduling for an NIH R01 controlled-design human exposure study assessing differences in traffic-related air pollution exposures incurred while commuting via car or bicycle, on high-traffic and alternative low-traffic routes. Led analyses of relationships among exposure, exercise, and cardiovascular health. Publication: Good et al. 2016.

Biomass-Burning Emissions

Designed and executed an extensive laboratory campaign to quantify over 120 health-relevant pollutants (e.g., volatile organic compounds, polycyclic aromatic hydrocarbons, black carbon, carbonyls, particulate matter, CO, CO_2, NOx) across a matrix of stove technologies and fuels (e.g., liquefied petroleum gas, wood, charcoal). Publication: Bilsback et al. 2019.

Designed and executed a laboratory campaign to quantify health-relevant emissions from non-traditional fuel sources used commonly as cookstove start-up materials in energy-poor countries, with relevance as well to emissions from non-conventional burning of residential trash. Led to publications: Fedak et al. 2018; Fedak, Good, E. Walker, et al. 2019.

Designed, implemented, and analyzed a large controlled human exposure study evaluating short-term cardiovascular and respiratory endpoints following exposure to cookstove-generated air pollution. Established a process to generate consistent and replicable exposure sessions across participants and to monitor and quantify aerosol exposures during the study sessions. The exposure design methods for this study are detailed extensively in the publication, Fedak, Good, E. Walker, et al. 2019.

Managed a real-time field campaign measuring emissions from biomass cookstoves and residential cooking in Kampala, Uganda. Led to the publication: Eilenberg et al. 2018.

Bioaerosols and Respiratory Pathogens

Directed a controlled human subjects study quantifying aerosol emissions from speaking, singing, and playing wind instruments. Developed data-collection protocols, including methods to quantify aerosol emissions isolated to the activities. Managed IRB ethics reviews, led participant recruitment, screening, and scheduling, supervised data collection teams, and led analyses. Led to the publications: Good et al. 2021; Volckens et al. 2022; Tanner et al. 2023.

Conducted modeling-based analyses to establish a framework to support communicable disease mitigation decisions for airborne pathogens, based on quantifying a metric called "effective rebreathed volume" that is calculated based on person-to-person proximity and indoor air confinement/ventilation levels, allowing risk managers to make mitigation decisions based on the environmental conditions even if pathogen-specific factors like virulence or reproduction number are unknown. Led to the publication: Bond et al. 2021.

Designed and directed the Colorado Indoor Air Quality and Ventilation Assessment Program (2021-2024), which conducted in-depth indoor air-quality measurements and ventilation inspections for 53 workplace and community-serving facilities, with emphasis on high-risk or disproportionately impacted settings; issued written findings and actionable recommendations; supplied mitigation tools (portable cleaners, upgraded filters, monitors); leading cross-facility analyses to inform occupational respiratory-risk reduction. Currently working with the project team to conduct cross-facility analyses that can contribute to a broader understanding of indoor air quality and building operations/management, and occupational-setting respiratory disease risk.

Environmental Epidemiology

Led the design, implementation, and data analysis for a large controlled human exposure study investigating subclinical cardiovascular and respiratory health outcomes from exposure to cookstove-generated air pollution. Operating as the clinical study coordinator, I led recruitment and health screening efforts to enroll 48 participants across three cohorts, and managed the scheduling and participant communications to ensure all 48 participants completed six, 24-hour study periods following a latin-square design sequence. I conducted measurements of lung function, heart rate variability, and blood pressure, and blood inflammatory biomarkers, at baseline pre-exposure and immediately, 3 hours, and 24 hours post exposure. Led to the publications: Fedak, Good, E. Walker, et al. 2019; Fedak et al. 2020; Walker et al. 2020; Cole-Hunter et al. 2021; Walker et al. 2022.

Managed participant recruitment, informed consent, and scheduling for an NIH R01 controlled-design human exposure study assessing differences in traffic-related air pollution exposures incurred while commuting via car or bicycle, on high-traffic and alternative low-traffic routes. Led analyses to explore the relationships among traffic-related air pollutant exposures and subclinical markers of cardiovascular health, considering the modifying effect of exercise, from a dataset that was generated from an experimental design human panel study.

Led data analysis for work assessing in utero exposures to air pollution and asthma outcomes in children. Led to the publication: Neophytou et al. 2023.

Led a critical review of epidemiological methodology for establishing relationships between adverse birth outcomes and natural gas development activity. Led to the publication: Fedak et al. 2014.

Occupational Epidemiology and Emergency Responses

Infectious/Communicable Disease

Served as the state of Colorado's Occupational Health Epidemiologist during the 2020-2023 COVID-19 Pandemic Public Health Emergency. Provided prevention outreach, case investigation, and outbreak management support for primarily non-healthcare industries (e.g., food manufacturing, construction, agriculture, warehouse/ distribution). Communicated directly with workplace management (including local, regional, corporate level) regarding occupational health and safety and supported local public health agencies in outbreak management. Received the Department Executive Director's "Performance Award" in 2020 for this work. Led to publications: Waltenburg et al. 2020; 2021; Metz et al. 2022.

Served as the occupational health and health equity lead and the Incident Safety Officer for Colorado's response to the 2024 Highly Pathogenic Avian Flu (H5N1) outbreak among dairy and poultry farmers. Led to publication: Drehoff et al. 2024.

Non-Communicable Disease Occupational Exposures/Illnesses

Subject-Matter lead for the Colorado Dept. of Public Health and Environment's 2025 Extreme Heat Action Planning Work Group (2023-2024), focusing on response to extreme heat for high-risk occupations and industries. Contributed to the 2025-2029 State Health Improvement Plan, Air Quality and Climate Change Priority Areas (CDPHE 2025).

Led the epidemiologic investigation into complaints of respiratory, anaphylactic, and autoimmune responses within a mixed-use building of a state University (laboratories, offices, and classrooms). Identified mold as the likely causative agent and advised university facilities and management on remediation and response efforts (2024).

Led the epidemiologic investigation into complaints of respiratory illness among workers at a county courthouse; initial complaints alleged a leak of propylene glycol from the building's heating system was a triggering factor to onset of chronic, widespread occupational health concerns. Investigated potential exposure sources/causative agents and advised county facility managers and judicial branch leaders on environmental testing and workplace accommodations to resolve health concerns (2022).

Provided scientific support for expert witnesses retained in litigation related to occupational and para-occupational benzene, asbestos, and cosmetic talc exposures. Led to the publications: Gross and Fedak 2015; Fedak et al. 2015.

Workplace Health & Safety Management

Lead for the Colorado Dept. of Public Health and Environment's 2025 Task Force to Improve Occupational Health and Safety in Disease Control/Emergency Response Incidents.

As Colorado's Occupational Health Epidemiologist/Industry Response Team Lead during the COVID-19 Pandemic Public Health Emergency, coordinated with other state departments (e.g., Governor's Office, Labor and Employment, Agriculture, Transportation) on guidance and policy development related to occupational health and safety management. Lead author of several official state guides published on the state's COVID-19 dashboard from 2020-2022, including (available on request):

- *Guidance for Preventing, Reporting, and Mitigating Workplace and Non-Health Care, Non-Residential Facility Outbreaks* - summarized prevention best practices and response steps for all non-residential workplace settings. First released in April 2020 and revised multiple times through 2022 as state-of-the-science on SARS-CoV-2 evolved. It was complemented by occupational health program managers and COVID response teams from public health agencies

locally and in other states for being a clear, comprehensive resource that helps workplaces navigate the often confusing plethora of "guidance and resources" across federal CDC, OSHA, and NIOSH webpages.

- *Ventilation and COVID-19; Ventilation in Schools; Portable Air Cleaners Factsheet* - these documents addressed concerns over small aerosol spread of sars-cov-2 and how ventilation, HVAC systems, and portable air cleaners may contribute to, or serve as a tool to mitigate, disease transmission.
- *COVID-19 Guidance for the Agricultural Industry* - detailed recommendations for agricultural workers and employers with a special focus on legal rights of workers for safe working conditions related to COVID-19 prevention and access to healthcare and unique issues related to migrant and seasonal workers.
- *Guidance for Private, Hired Transportation* - addressed best practices for managing COVID-19 risk in the non-public-utility shared transportation industry.
- *Best Practices for Managing Wildfire Risks and COVID-19* - a guidance designed for wildfire response incident managers on how to balance wildfire response needs with COVID-19 prevention practices.
- *Best Practices for Wildfire Camps and Evacuation Centers during COVID-19* - a guidance for wildland fire responders and the general public on how to modify emergency shared/congregate gathering settings necessary during wildfire response with COVID-19 prevention actions.

Routinely advise public agencies and employers on standards/regulations, employer liability, controls, and best practices for workplace hazards including mold, extreme heat, chemical safety, ventilation and indoor air quality, respiratory protection, communicable disease mitigation, and oil-and-gas injury and exposure scenarios.

Chemical Risk Assessment

Contributing scientist for several US EPA chemical-specific risk assessments/hazard reviews, including assessments within the Integrated Risk Information System (IRIS) Program chemical risk assessments/reviews (https://www.epa.gov/iris; e.g., arsenic, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD/dioxin), and hexavalent chromium) and the Superfund Program's Provisional Peer-Reviewed Toxicity Value (PPRTV) reports (www.epa.gov/pprtv). Work in this field led to the publications: Selgrade et al. 2013; Segal et al. 2015; Lehmann et al. 2014

Lead author for technical risk evaluation reports for chemicals/food additives under sunset review or petition for inclusion/exclusion on USDA's National Organic Program's National List of Allowed and Prohibited Substances (7 CFR 205.600). Examples: carrageenan, ethylene, ascorbyl palmitate, lutein.

Author for the nanomaterial case study report program's comparative environmental assessment of multiwalled carbon nanotubes and brominated flame retardants in upholstery textiles; contributor to the expert elicitation research prioritization process. Details on this project can be found here: https://assessments.epa.gov/risk/document/&deid=253010. And in the published report: US EPA 2013.

Exposure/Risk Assessment Education and Communication

Leading author and content developer for the U.S. EPA "ExpoBox" (exposure assessment resources) website (www.epa.gov/expobox), and the associated Risk Assessment Training and Experience (RATE) Program modules (https://www.epa.gov/expobox/exposure-assessment-tutorials), which aimed to provide a comprehensive education/training resource for environmental exposure assessment methods, tools, and resources. Both first launched in 2011 and have remained relevant/largely unchanged to date.

Taught, co-taught, and guest lectured in various university courses related to environmental and occupational health, risk assessment, and public health and policy, including:

- "Field Methods of Disease Investigation," Colorado School of Public Health (graduate-level): full instructor/ course designer, 2021
- "Environmental Public Health & Policy," Colorado School of Public Health (graduate-level): full instructor/ course designer - 2020, 2021; multiple guest lectures and developed module on risk assessment - 2016, 2017, 2018, 2019
- "Environmental and Occupational Health," Colorado State University (Graduate-level): guest lectures on human exposure studies design/implementation; risk assessment methods; asbestos - 2018
- "Principles in Epidemiology," Colorado State University (undergraduate-level): full-semester supervised teaching full semester, included leading students through semester-long projects - 2017
- "Perspectives in Global Health," Colorado State University (graduate-level): guest lecture on cookstoves, air quality, and health - 2017
- "Ecological and Human Health Risk Assessment," Duke University (graduate-level): Full-semester teaching assistant, led students through semester-long projects - 2011

Public Health Program Implementation (Indoor Air Quality)

Led a $53M statewide program that delivered over 45,000 portable HEPA air cleaners to over 1,550 K-12 schools and early childhood education centers and established a network of 2,400 indoor air quality monitors in classrooms across 369 public K-12 schools, within a rapid 9-month period (cdphe.colorado.gov/ clean-air-for-schools). Awarded a division-level "Star Award" and was a nominee for the annual Departmental "Exemplifying Public Health Award" for this initiative.

Project Director for a statewide Wildfire Smoke Preparedness Program, which focuses on providing education and training to local partners on building management and operations to ensure clean indoor air in community-use buildings and schools during wildfire smoke events (cdphe.colorado.gov/ wildfire-smoke-preparedness). Support community partners in understanding how indoor air quality is impacted by wildfire smoke, why it matters for health, and how to take actions to improve indoor air quality and establish Cleaner Air Centers or spaces. Provide rapid-response consultation during active wildfires and manage a real-time air quality monitoring program that pairs indoor and outdoor measurements to support partners in making progress towards implementation of cleaner air centers/cleaner air spaces.

Project Director/lead for the Colorado Indoor Air Quality and Ventilation Assessment Program (2021-2024). This program coordinated and executed in-depth indoor air quality measurements and building ventilation system inspections for facilities/workplaces throughout the state, with the goal of providing building manager and occupants with detailed information about the indoor air quality in their building, and actionable recommendations for how to improve indoor air quality focused on reducing risk of COVID-19 and other respiratory diseases. Facilities that participated in the program received a detailed report of findings and recommendations, as well as tools such as portable air cleaners, high-quality HVAC system replacement filters, and indoor air quality monitors that they could use to address identified areas of concern.

Contributed to the World Health Organization (WHO)-funded Malaria Decision Analysis Support Tool Project, which focused on increasing capacity for evidence-based malaria control policy by developing a decision-tree style platform to assist users in evaluating health, social, and environmental impacts and policy tradeoffs, identifying key knowledge gaps, and ranking priorities. As part of this, designed and implemented expert elicitation interviews of stakeholders in Dar es Salaam, Tanzania on benefits and risks associated with vector control insecticides and factors influencing malaria control decisions. Led to the publication: Kim et al. 2012.

PEER-REVIEWED PUBLICATIONS AND GOVERNMENTAL REPORTS (AUTHORED)

Please note that the majority of my published reports are under my prior name "Kristen M. Fedak."

1. Colorado's 2025-2029 State Health Improvement Plan. Contributing Author to "Air Quality" and "Climate Change Adaptation" Priority Areas. Released July 2025. Available at https://cdphe-lpha.colorado.gov/assessment-and-planning/state-assessment-and-planning.

2. Tanner K, **Good KM,** Goble D, Good N, … Volkens J. 2023. Large Particle Emissions from Human Vocalization and Playing of Wind Instruments. Environmental Science & Technology. 57 (41), 15392-15400.

3. Neophytou AM, Lutzker L, **Good KM**, Mann JK **…** Balmes JR. 2023. Associations between prenatal and early-life air pollution exposure and lung function in young children: Exploring influential windows of exposure on lung development. Environmental Research 222:115415.

4. Volkens J, **Good KM**, Goble D, Good N, et al. 2022. Aerosol Emissions from Wind Instruments: Effects of Performer Age, Sex, Sound Pressure Level, and Bell Covers. Scientific Reports 12: 11303.

5. Metz A, Bauer M, … **Good KM**, Burakoff A. 2022. Investigation of COVID-19 Outbreak among Wildland Firefighters during Wildfire Response, Colorado, USA, 2020. Emerging Infectious Diseases. Jun 15: 28(8).

6. Walker E, **Fedak KM**, Good N, Balmes J, Brook R, Clark M, Cole-Hunter T, Devlin R… Volckens J, Peel JL. 2022 (Epub March 2020). Acute changes in blood lipids and inflammatory markers in response to controlled exposures to cookstove-generated air pollution. International Journal of Environmental Health Research.

7. Waltenburg MA, Rose CE, Victoroff, **et al.** 2021. Coronavirus disease among workers in food processing, food manufacturing, and agriculture workplaces. Emerging Infectious Diseases 27(1):243-249.

8. Good N, **Fedak KM,** Goble D, Keisling A, L'Orange C, Morton E, Phillips R, Tanner K, Volckens J. 2021. Respiratory aerosol emissions from vocalization: Age and sex differences are explained by volume and exhaled CO_2. Environmental Science & Technology Letters 8(12), 1071-1076.

9. Cole-Hunter T, Dhingra R, **Fedak KM**, Good N, Walker E, Balmes J,…Volckens J, Peel JL. 2021. Short-term differences in cardiac function following controlled exposure to cookstove-generated air pollution: The subclinical tests on volunteers exposed to smoke (STOVES) study. Environment International 146: 106254.

10. Bond T, Bosco-Lauth A, Farmer DK, Francisco PW, Pierce JR, **Fedak KM**, et al. 2021. Quantifying proximity, confinement, and interventions in disease outbreaks: A decision support framework for air-transported pathogens. Environmental Science & Technology 55(5): 2890-2898.

11. Waltenburg MA, Victoroff T, Rose CE, Butterfield M, Jervis RH, **Fedak KM,** et al. 2020. Update: COVID-19 Among Workers in Meat and Poultry Processing Facilities — United States, April–May 2020. MMWR Morb Mortal Wkly Rep; 69:887-892.

12. **Fedak KM**, Good N, Walker E, Balmes J, Brook R, Clark M, Cole-Hunter T, Devlin R… Volckens J, Peel JL. 2020. Acute changes in lung function following controlled exposure to cookstove air pollution in the subclinical tests of volunteers exposed to smoke (STOVES) study. Inhalation Toxicology. 2020 Apr 16:1-9.

13. Walker E, **Fedak KM**, Good N, Balmes J, Brook R, Clark M, Cole-Hunter T, Devlin R… Volckens J, Peel JL. 2020. Acute differences in pulse wave velocity, augmentation index, and central pulse pressure following controlled exposures to cookstove air pollution in the Subclinical Tests of Volunteers Exposed to Smoke (STOVES) study. Environmental Research 180: 108831.

14. **Fedak KM**, Good N, Walker E, Balmes J, Brook R, Clark M, Cole-Hunter T, Devlin R… Volckens J, Peel JL. 2019. Acute effects on blood pressure following controlled exposures to cookstove air pollution in the Subclinical Tests of Volunteers Exposed to Smoke (STOVES) Study. Journal of the American Heart Association (JAMA) 8(14): e012246.

15. **Fedak KM**, Good N, Walker E, Clark ML, L'Orange C, Volckens J, Peel JL. 2019. An expert survey on the fuel types used to start cookstoves. Energy for Sustainable Development 48:59-66.

16. Bilsback KR, Dahlke J, **Fedak KM**, Good N, et al. 2019. A laboratory assessment of 120 air pollutant emissions from biomass and fossil-fuel cookstoves. Environmental Science and Technology 53(12): 7114-7125.

17. **Fedak KM**, Good N, Dahlke J, Peel JL, Volckens J. 2018. Chemical composition and emission factors for cookstove startup (ignition) materials. Environmental Science & Technology 52(16):9505-9513.

18. Eilenberg RS, Bilsback KR, Johnson M, Kodros JK, Lipsky EM, Naluwagga A, **Fedak KM**, et al. 2018. Field measurements of solid-fuel cookstove emissions from uncontrolled cooking in China, Honduras, Uganda, and India. Atmospheric Environment 190:116-125.

19. Good N, Molter A, Ackerson C, Bachand A, Carpenter T, Clark ML, **et al.** 2016. The Fort Collins commuter study: Impact of route type and transport mode on personal exposure to multiple air pollutants. Journal of Exposure Science and Environmental Epidemiology 26:397-404.

20. **Fedak KM**, Bernal A, Capshaw ZA, Gross S. 2015. Applying the Bradford Hill Criteria in the 21st century: How data integration has changed causal inference in molecular epidemiology. Emerging Themes in Epidemiology 12:14.

21. Gross SA, **Fedak KM**. 2015. Applying a weight-of-evidence approach to evaluate relevance of molecular landscapes in the exposure-disease paradigm. Biomed Research International 515798.

22. Segal D, Makris SL, Kraft AD, Bale AS, Fox J, **et al.** 2015. Evaluation of the ToxRTool's ability to rate the reliability of toxicological data for human health hazard assessments. Regulatory Toxicology and Pharmacology 72:94-101.

23. **Fedak KM**, Gross S, Jacobsen M, Tvermoes B. 2014. Birth outcomes and natural gas development: Methodological limitations. Environmental Health Perspectives 122:A232-A232.

24. Selgrade MK, Blain RB, **Fedak KM**, Cawley MA. 2013. Potential risk of asthma associated with in utero exposure to xenobiotics. Birth Defects Research Part C-Embryo Today-Reviews 99:1-13.

25. U.S. EPA (Authors: Powers C, **Fedak KM,** Harris A, et al.). 2013. Comprehensive environmental assessment applied to multiwalled carbon nanotube flame-retardant coatings in upholstery textiles: A case study presenting priority research gaps for future risk assessments. Washington, DC: U.S. Environmental Protection Agency.

26. Kim D, **Fedak KM**, Kramer R. 2012. Reduction of malaria prevalence by indoor residual spraying: A meta-regression analysis. American Journal of Tropical Medicine and Hygiene 87:117-124.

27. Shalaby NA, Parks AL, Morreale EJ, Osswalt MC, **Pfau KM**, Pierce EL, et al. 2009. A screen for modifiers of notch signaling uncovers amun, a protein with a critical role in sensory organ development. Genetics 182:1061-1076.

PEER-REVIEWED PUBLICATIONS AND GOVERNMENTAL REPORTS (ACKNOWLEDGED)

1. Lehmann, GM, et al., 2014. Improving the risk assessment of lipophilic persistent environmental chemicals in breast milk, Crit Rev Toxicol. 44:600617

2. Drehoff CC, White EB, Frutos AM, et al. 2024. Cluster of Influenza A(H5) Cases Associated with Poultry Exposure at Two Facilities — Colorado, July 2024. MMWR Morb Mortal Wkly Rep 73:734-739.

SPEAKING ENGAGEMENTS - PRESENTATIONS, WEBINARS, COMMITTEE TESTIMONY

1. "Wildfire Smoke Preparedness in Schools and Community Buildings: From Science to Public Health Practice" (Lecture/Guest Teaching). University of Colorado Anschutz, October 1, 2025.

2. "Wildfire Smoke and Extreme Heat: Lessons for Safer Schools" (Invited Presentation & Panelist; Public Webinar). Host/Sponsor: Attune (formerly Senseware), in partnership with the US Center for Green Schools, September 25, 2025.

3. "Wildfire Smoke Preparedness in Community-Use Buildings" (Invited Presentation). Metro Denver Partnership for Health, Climate Action Work Group Monthly Meeting, September 24, 2025.

4. "Wildfire Smoke and Extreme Heat Preparedness in Long Term Care Facilities" (Invited Presentation). CDPHE Long-term Care Facility Partner Network Monthly Meeting, July 9, 2025.

5. Testimony on behalf of CDPHE, Colorado House Energy and Environment Committee Hearing: HB25-1202 Increasing Public Awareness of Mold Health Effects. March 13, 2025.

6. "Wildfires and Public Health" (Invited Presentation; Q&A panel member). Host/Sponsor: Brown University STAT Extreme Weather and Health Action Network, March 5, 2025.

7. "Building a Statewide Outreach, Education, and Training Network to Support Wildfire Smoke Preparedness for School and Community Partners" (Invited Presentation; Q&A panel member). Rocky Mountain Wildfire Smoke Symposium, October 17, 2024.

8. "Wildfire Preparedness in Community Buildings" (CDPHE-hosted public webinar). October 3, 2024.

9. "Wildfire Preparedness in Schools" (CDPHE-hosted public webinar). September 19, 2024.

10. "CDPHE's Wildfire Smoke Preparedness Program" (Invited Presentation; Q&A panel member). State Legislative Interim Committee on Wildfire Matters, July 2, 2024.

11. "Wildfires and Disproportionately Impacted Communities" (Invited Presentation; Q&A panel member). State Legislative Interim Committee on Wildfire Matters Review, August 29, 2023.

12. "Ventilation Systems and Infection Prevention Considerations for Residential Care Facilities" (Invited Presentation). Colorado State-wide Residential Care Facilities meeting, February 9, 2021.

13. "COVID-19 and Ventilation: A year's worth of questions and some answers" (Invited Presentation; Public Sponsored Webinar). Host/Sponsor: Colorado Community Health Network, January 26, 2021.

14. "Colorado Restaurant Winter Outdoor Dining Design Workshop." Invited Expert to participate in full-day workshop sponsored by the Colorado Restaurant Association and Colorado Governor's Office, October 19, 2020.

15. "COVID-19, Ventilation, and Energy Efficiency for Building Owners and Managers" (Invited Presentation; Public Sponsored Webinar). Host/Sponsor: Partners for a Clean Environment (PACE), August 27, 2020.

16. "What to Do if an Agriculture Employee Tests Positive for COVID-19" (Invited Presentation; Public Sponsored Webinar). Host/Sponsor: Colorado Fruit & Vegetable Growers Association, Colorado State University Extension. August 6, 2020.

17. "COVID-19 Outbreak Prevention and Response in the Cattle Industry" (Invited Presentation; Public Sponsored Webinar). Host/Sponsor: Colorado Cattlemen's Association, June 25, 2020.

18. "Ethical Considerations in Air Pollution Exposure Assessment." International Society for Environmental Epidemiology Annual Conference, 2017.

19. "How Clean is Clean Enough?" Three Minute Thesis Competition (awarded within top 10), Colorado State University Office of the Vice President for Research Fellowship Challenge, 2017.

20. "How Clean is Clean Enough? A Controlled Cookstove Exposure Study." Engineers in Technical and Humanitarian Opportunities of Service Annual Cookstoves Conference, 2016.

21. "A Risk-Risk Tradeoff: Human Health Risks from Insecticides Used for Malaria Control." Duke University Master's Thesis Symposium, 2011.

CONFERENCE POSTERS/ABSTRACTS:

1. "Personal Monitoring: The Future of Smart Technology, Health, and Environmental Management." CSU Ventures and The Institute for Entrepreneurship's Annual Demo Day, 2019.

2. "Acute Changes in Blood Pressure Following Controlled Exposures to Cookstove Air Pollution in the Subclinical Tests of Volunteers Exposed to Smoke (STOVES) Study." International Society for Environmental Epidemiology Annual Conference, 2018.

3. "Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials." International Society for Environmental Epidemiology Annual Conference, 2018.

4. "Understanding relationships among health-relevant pollutants emitted from cookstoves." International Society for Environmental Epidemiology Annual Conference, 2017; Colorado State University Graduate Student Showcase, 2017.

5. "Web Apps for Cookstoves and Health." CSU Ventures and The Institute for Entrepreneurship's Annual Demo Day, 2017.

6. "Fueling the Fire: An Expert Survey to Explore Materials Used for Cookstove Startup." International Society for Environmental Epidemiology Annual Conference; Colorado State University Graduate Student Showcase, 2016.

7. "Applying the Bradford Hill Criteria in the 21st Century: How Advances in Molecular Epidemiology Have Changed Causal Inference." Society of Toxicology Annual Conference, 2014.

8. "Identifying Data Gaps and Prioritizing Research Areas to Inform Future Risk Assessment of Multiwalled Carbon Nanotubes." Society of Toxicology Annual Conference, 2013.

9. "Evaluation of the ToxRTool for Assessing Quality of Toxicological Data for Risk Assessments." Society of Toxicology Annual Conference, 2013.