Kristen Good, MEM, PhD
kristen@redspire.us

SUMMARY/BIOGRAPHY:

Dr. Kristen Good is an epidemiologist and public health professional with a scientific background in risk assessment, toxicology, exposure assessment, and environmental sciences. Dr. Good is passionate about identifying data-driven, scientifically-supported solutions to complex problems - and communicating those solutions to stakeholders and the public. Her 15+ years of professional experience in the field has spanned academia/research, private industry, and government. 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.

As the leading technical authority in occupational health and indoor air quality at the Colorado Department of Public Health and Environment (CDPHE) since 2020, Dr. Good manages the state's occupational health surveillance and response initiatives and leads the indoor air quality program. In this capacity, Dr. Good 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. She also serves as a subject matter expert on emergency/incident response teams and working groups. From 2020-2022, Dr. Good led the Industry Response Team of the state's COVID-19 pandemic response, where she was responsible for advising on workplace prevention outreach and outbreak investigation and response for hundreds of workplace outbreaks, and employer responsibility across a variety of industry sectors (e.g., food manufacturing, construction, agriculture, warehouse/ distribution). She also led coordinated efforts with other state departments (e.g., Governor's Office, Labor and Employment, Agriculture, Transportation) on guidance and policy development for specific industries related to workplace safety and COVID-19 prevention. Dr. Good was also an influential member of the state's 2024 response to the Highly Pathogenic Avian Flu outbreak among dairy and poultry farm workers, focusing on worker protections and the intersection of occupational risk and health equity for impacted workers.

In her role at CDPHE, Dr. Good has testified at the Colorado state senate on topics of mold exposures and wildfire smoke. 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, focused on application of human health 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 Integrated Risk Information System (IRIS) and Superfund Programs.

EXPERIENCE:

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

Health Equity Branch Deputy Chief — 2020-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 Department of Public Health and Environment (CDPHE)
Disease Control and Public Health Response Division

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

Principal Health Scientist — 2019
KDA Scientific LLC

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

Participant Coordinator — 2013
Colorado State University

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

Research Assistant — 2009 – 2011
Duke University

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

EDUCATION/DEGREES:

Colorado State University, Ph.D., Environmental Health (epidemiology concentration) — 01/2015 – 10/2018

Duke University, M.E.M., Environmental Management (toxicology/environmental health concentration) — 09/2009 – 05/2011

Boston College, B.S., Biology (environmental studies minor) — 09/2005 – 05/2009

PROFESSIONAL HONORS/AWARDS:

CDPHE Departmental Annual "Exemplifying Public Health Award", nominee	October 2023
CDPHE Divisional "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:

Air Pollutant Exposures and Health Outcomes Research

Managed participant recruitment, consent, and scheduling for NIH-R01 on traffic-related air pollution exposure. Led data analysis for work assessing the relationships between traffic-related air pollutant exposures, exercise, and cardiovascular health (Good *et al.*, 2016).

Led data analysis for work assessing in utero exposures to air pollution and asthma outcomes in children (Neophytou *et al.*, 2023).

Managed and led research for a human subjects controlled exposure study to measure bioaerosol generation from performing arts activities (e.g., speaking, singing, playing instruments), to inform assessment of respiratory disease transmission risk (Good *et al.*, 2021; Volckens *et al.*, 2022; Tanner *et al.*, 2023). Responsible for developing technical protocols for data collection, managing human subjects ethic reviews, recruiting and coordinating study participants, supervising students for data collection process, analyzing data, and reporting results.

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 (Fedak, Good, E. S. Walker, *et al.*, 2019; Fedak *et al.*, 2020; Walker *et al.*, 2020; Cole-Hunter *et al.*, 2021; Walker *et al.*, 2022).

Designed and implemented a laboratory-based emissions monitoring campaign to evaluate health-relevant pollutants (VOCs, PAHs, BC, carbonyls, PM, CO, CO_2, NOx) across different combinations of stove technology and fuel type (e.g., LPG, wood, charcoal). Led to three publications (Fedak *et al.*, 2018; Bilsback *et al.*, 2019; Fedak, Good, E. Walker, *et al.*, 2019).

Managed a field campaign measuring real-time emissions from biomass burning cookstoves and residential cooking activities in homes in Kampala, Uganda (Rose Eilenberg *et al.*, 2018).

Indoor Air Quality, Wildfire Smoke Exposures, and Health

Led the design and implementation of the 2023 Clean Air for Schools Program (cdphe.colorado.gov/clean-air-for-schools), a rapid execution project which provided over 45,000 HEPA-based portable air cleaners to more than 500 K-12 schools and over 1,000 early childhood education centers throughout the state of Colorado, and additional established a network of 2,400 indoor air quality monitors across 369 public K-12 schools. Awarded a division-level “Star Award” for work on this initiative, and was a nominee for the annual Departmental “Exemplifying Public Health Award.”

Project Director for the 2024-2027 Wildfire Smoke Preparedness Program (cdphe.colorado.gov/wildfire-smoke-preparedness) which is focused on providing education and training to local partners on building management and operations to ensure clean indoor air in community-use buildings during wildfire smoke events. Lead initiatives to 1) educate partners on the health impacts of wildfire smoke with an emphasis on disproportionately impacted populations (those more likely to have higher exposures or suffer adverse health impacts, due to biological, physiological, or sociobehavioral factors), 2) empower partners to take initiative to improve indoor air quality through establishing improved building operations and management plans. Additionally, work with local school district facility managers to understand how indoor air quality monitoring in classrooms can be used to understand building operations, improve indoor air quality, and respond to wildfire smoke events. Provide rapid-response consultation for communities experiencing wildfire smoke events, on actions that can be taken to protect community health from the impacts of wildfire smoke considering the unique factors of the specific community and fire event. Finally, through this program, operate a small “community building real-time air quality monitoring program”, through which we provide community-use buildings (e.g., libraries, recreation centers, community centers) with paired indoor and outdoor PM2.5 monitors that can provide information to help assess how the building is responding and performing during poor air quality events, and how different building management practices can improve indoor air quality, to help communities make progress towards implementation of cleaner air centers/cleaner air spaces.

Project Director/lead for the Colorado Indoor Air Quality and Ventilation Assessment Program, which operated from 2021-2024. This program coordinated and executed in-depth indoor air quality

measurements and building ventilation system inspections for 53 different 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. The program focused on serving facilities in high-risk, disproportionally-impacted, or otherwise unique occupational settings. 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. 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.

COVID-19 Workplace Health & Safety

Served as the state of Colorado's Occupational Health Epidemiologist/Industry Response Team Lead during the COVID-19 Pandemic Public Health Emergency. Provided epidemiologic support to Communicable Disease Branch's COVID-19 response, including prevention outreach, case investigation, and outbreak response for primarily non-healthcare industries (e.g., food manufacturing, construction, agriculture, warehouse/ distribution). Collaborated across a wide variety of multi-functioning teams (e.g., epidemiologists, nurses, medical doctors, policy analysts, communication specialists) to provide time-sensitive outbreak support under continuously changing, high-stakes environments. Communicated directly with workplace management (local, regional, corporate level) and supported local public health agencies in outbreak management. Coordinated with other state departments (e.g., Governor's Office, Labor and Employment, Agriculture, Transportation) on guidance and policy development. Lead author of several official state guides published on the state's COVID-19 dashboard from 2020-2022, including:

- *Ventilation and COVID-19* - addressed concerns over small aerosol spread of sars-cov-2 and how ventilation and HVAC in indoor spaces may contribute to, or serve as a tool to mitigate, disease transmission (Bond *et al.*, 2021).
- *Guidance for Preventing, Reporting, and Mitigating Workplace and Non-Health Care, Non-Residential Facility Outbreaks* - an extensive document that summarized prevention best practices and response steps for all non-residential workplace settings. This document was first released in April 2020 and revised multiple times through 2022. It was complemented by occupational health program managers and COVID response teams from public health agencies 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 (Bond *et al.*, 2021)
- *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 (Waltenburg *et al.*, 2020, 2021)
- *Guidance for Private, Hired Transportation* - addressed best practices for managing COVID-19 risk in the non-public-utility shared transportation industry (rideshares, private shuttles used by the hotel and tourism industries, etc.)
- 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 (Metz *et al.*, 2022).
- *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 (Metz *et al.*, 2022).

Non-COVID Occupational Health Investigations/Outbreak Responses

Served as the State of Colorado's occupational health and health equity lead and the Incident Safety Officer for on-site response to the Highly Pathogenic Avian Flu outbreak among dairy and poultry farm workers (2024).

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 (Good, 2025).

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.

Led the epidemiologic investigation into complaints of workplace exposures to "unidentified air-based toxins" within a mixed-use building of a state University (laboratories, offices, and classrooms) leading to respiratory illness, eye irritations, and allergic responses. 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 unknown exposure causing respiratory illness among workers at a county courthouse; initial complaints alleged a leak of propylene glycol was a triggering factor to onset of chronic, widespread occupational health concerns. Investigated potential exposure sources/causative agents, advised county facility managers and judicial branch leaders on environmental testing and workplace accommodations to resolve health concerns (2022).

Regularly advise partners and the general public on health and safety regulations, PPE and administrative controls to reduce exposures/safety risks, employer liabilities, and post-incident response related to a variety of occupational health and safety concerns and scenarios; common topics include: mold, extreme heat in the workplace, chemical safety, ventilation and indoor air quality concerns, respiratory protection, workplace communicable disease transmission, oil and gas development injuries and chemical exposures.

Chemical-Specific Risk Assessment

Contributing scientist for several US EPA Integrated Risk Information System (IRIS) Program chemical risk assessments/reviews (https://www.epa.gov/iris), including arsenic, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD/dioxin), and hexavalent chromium).

Contributing scientist/author for several US EPA Superfund Program's Provisional Peer-Reviewed Toxicity Value (PPRTV) reports (www.epa.gov/pprtv).

Wrote 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.

Lead author for the Nanomaterial case study report program's comparative environmental assessment of multiwalled carbon nanotubes and brominated flame retardants in upholstery textiles (Powers, Fedak and Harris, 2013); contributor to the expert elicitation research prioritization process. Details on this project and associated white papers/government publications can be found here: https://assessments.epa.gov/risk/document/&deid=253010.

Exposure and Risk Assessment Education and Communication

Leading author/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

PEER-REVIEWED PUBLICATIONS AND GOVERNMENTAL REPORTS

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. 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.
7. 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.
8. 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.
9. Waltenburg MA, Rose CE, Victoroff, **et al.** 2021. COVID-19 among workers in food processing, food manufacturing, and agriculture workplaces. Emerging Infectious Diseases 27(1):243-249.

10. 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.
11. Walker E, **Fedak KM**, Good N, Balmes J, Brook R, Clark M, Cole-Hunter T, Devlin R… Volckens J, Peel JL. 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.
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. 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.
25. 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.
26. 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.

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.

Bilsback, K.R. *et al.* (2019) “A Laboratory Assessment of 120 Air Pollutant Emissions from Biomass and Fossil Fuel Cookstoves,” *Environmental Science & Technology*, 53(12), pp. 7114–7125. Available at: https://doi.org/10.1021/acs.est.8b07019.

Bond, T.C. *et al.* (2021) “Quantifying Proximity, Confinement, and Interventions in Disease Outbreaks: A Decision Support Framework for Air-Transported Pathogens,” *Environmental Science & Technology*, 55(5), pp. 2890–2898. Available at: https://doi.org/10.1021/acs.est.0c07721.

Cole-Hunter, T. *et al.* (2021) “Short-term differences in cardiac function following controlled exposure to cookstove air pollution: The subclinical tests on volunteers exposed to smoke (STOVES) study,” *Environment International*, 146, p. 106254. Available at: https://doi.org/10.1016/j.envint.2020.106254.

Fedak, K.M. *et al.* (2018) “Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials,” *Environmental Science & Technology*, 52(16), pp. 9505–9513. Available at: https://doi.org/10.1021/acs.est.8b02218.

Fedak, K.M., Good, N., Walker, E.S., *et al.* (2019) “Acute Effects on Blood Pressure Following Controlled Exposure to Cookstove Air Pollution in the STOVES Study,” *Journal of the American Heart Association*, 8(14), p. e012246. Available at: https://doi.org/10.1161/JAHA.119.012246.

Fedak, K.M., Good, N., Walker, E., *et al.* (2019) “An expert survey on the material types used to start cookstoves,” *Energy for Sustainable Development*, 48, pp. 59–66. Available at: https://doi.org/10.1016/j.esd.2018.11.001.

Fedak, K.M. *et al.* (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*, 32(3), pp. 115–123. Available at: https://doi.org/10.1080/08958378.2020.1751750.

Good, K.M. (2025) *Colorado’s 2025-2029 State Health Improvement Plan, Air Quality and Climate Change Adaption Priority Areas*. Available at: https://cdphe-lpha.colorado.gov/assessment-and-planning/state-assessment-and-planning.

Good, N. *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 & Environmental Epidemiology*, 26(4), pp. 397–404. Available at: https://doi.org/10.1038/jes.2015.68.

Good, N. *et al.* (2021) “Respiratory Aerosol Emissions from Vocalization: Age and Sex Differences Are Explained by Volume and Exhaled CO2,” *Environmental Science & Technology Letters*, 8(12), pp. 1071–1076. Available at: https://doi.org/10.1021/acs.estlett.1c00760.

Metz, A.R. *et al.* (2022) “Investigation of COVID-19 Outbreak among Wildland Firefighters during Wildfire Response, Colorado, USA, 2020,” *Emerging Infectious Diseases*, 28(8), pp. 1551–1558. Available at: https://doi.org/10.3201/eid2808.220310.

Neophytou, A.M. *et al.* (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, p. 115415. Available at: https://doi.org/10.1016/j.envres.2023.115415.

Powers, C., Fedak, K.M. and Harris, A. (2013) *Report: 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: US EPA.

Rose Eilenberg, S. *et al.* (2018) "Field measurements of solid-fuel cookstove emissions from uncontrolled cooking in China, Honduras, Uganda, and India," *Atmospheric Environment*, 190, pp. 116–125. Available at: https://doi.org/10.1016/j.atmosenv.2018.06.041.

Tanner, K. *et al.* (2023) "Large Particle Emissions from Human Vocalization and Playing of Wind Instruments," *Environmental Science & Technology*, 57(41), pp. 15392–15400. Available at: https://doi.org/10.1021/acs.est.3c03588.

Volckens, J. *et al.* (2022) "Aerosol emissions from wind instruments: effects of performer age, sex, sound pressure level, and bell covers," *Scientific Reports*, 12(1), p. 11303. Available at: https://doi.org/10.1038/s41598-022-15530-x.

Walker, E.S. *et al.* (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, p. 108831. Available at: https://doi.org/10.1016/j.envres.2019.108831.

Walker, E.S. *et al.* (2022) "Acute differences in blood lipids and inflammatory biomarkers following controlled exposures to cookstove air pollution in the STOVES study," *International Journal of Environmental Health Research*, 32(3), pp. 565–578. Available at: https://doi.org/10.1080/09603123.2020.1785402.

Waltenburg, M.A. *et al.* (2020) "Update: COVID-19 Among Workers in Meat and Poultry Processing Facilities - United States, April-May 2020," *MMWR. Morbidity and mortality weekly report*, 69(27), pp. 887–892. Available at: https://doi.org/10.15585/mmwr.mm6927e2.

Waltenburg, M.A. *et al.* (2021) "Coronavirus Disease among Workers in Food Processing, Food Manufacturing, and Agriculture Workplaces," *Emerging Infectious Diseases*, 27(1), pp. 243–249. Available at: https://doi.org/10.3201/eid2701.203821.

SPEAKING ENGAGEMENTS - PRESENTATIONS, WEBINARS, COMMITTEE TESTIMONY

1. "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.
2. "Wildfire Smoke Preparedness in Community-Use Buildings" (Invited Presentation). Metro Denver Partnership for Health, Climate Action Work Group Monthly Meeting, September 24, 2025.
3. "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.
4. Testimony on behalf of CDPHE, Colorado House Energy and Environment Committee Hearing: HB25-1202 Increasing Public Awareness of Mold Health Effects. March 13, 2025.
5. "Wildfires and Public Health" (Invited Presentation; Q&A panel member). Host/Sponsor: Brown University STAT Extreme Weather and Health Action Network, March 5, 2025.
6. "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.
7. "Wildfire Preparedness in Community Buildings" (CDPHE-hosted public webinar). October 3, 2024.
8. "Wildfire Preparedness in Schools" (CDPHE-hosted public webinar). September 19, 2024.

9. “CDPHE’s Wildfire Smoke Preparedness Program” (Invited Presentation; Q&A panel member). State Legislative Interim Committee on Wildfire Matters, July 2, 2024.
10. “Wildfires and Disproportionately Impacted Communities” (Invited Presentation; Q&A panel member). State Legislative Interim Committee on Wildfire Matters Review, August 29, 2023.
11. “Ventilation Systems and Infection Prevention Considerations for Residential Care Facilities” (Invited Presentation). Colorado State-wide Residential Care Facilities meeting, February 9, 2021.
12. “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.
13. “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.
14. “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.
15. “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.
16. “COVID-19 Outbreak Prevention and Response in the Cattle Industry” (Invited Presentation; Public Sponsored Webinar). Host/Sponsor: Colorado Cattlemen’s Association, June 25, 2020.
17. “Ethical Considerations in Air Pollution Exposure Assessment” (presentation). International Society for Environmental Epidemiology Annual Conference, 2017.
18. “How Clean is Clean Enough?” (presentation). Three Minute Thesis Competition (awarded within top 10), Colorado State University Office of the Vice President for Research Fellowship Challenge, 2017.
19. “How Clean is Clean Enough? A Controlled Cookstove Exposure Study” (presentation). Engineers in Technical and Humanitarian Opportunities of Service Annual Cookstoves Conference, 2016.
20. “A Risk-Risk Tradeoff: Human Health Risks from Insecticides Used for Malaria Control” (presentation). Duke University Master’s Thesis Symposium, 2011.

INVITED WORKING GROUP AND COMMITTEE PARTICIPATION

Governor’s working group on extreme heat
SHIP Comittees

PRESENTATIONS/ABSTRACTS:

1. “Personal Monitoring: The Future of Smart Technology, Health, and Environmental Management” (poster). 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” (poster). International Society for Environmental Epidemiology Annual Conference, 2018.
3. “Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials” (poster). International Society for Environmental Epidemiology Annual Conference, 2018.
4. “Understanding relationships among health-relevant pollutants emitted from cookstoves” (poster). International Society for Environmental Epidemiology Annual Conference, 2017; Colorado State University Graduate Student Showcase, 2017.
5. “Web Apps for Cookstoves and Health” (poster). 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” (poster). 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” (poster). Society of Toxicology Annual Conference, 2014.
8. “Identifying Data Gaps and Prioritizing Research Areas to Inform Future Risk Assessment of Multiwalled Carbon Nanotubes” (poster). Society of Toxicology Annual Conference, 2013.
9. “Evaluation of the ToxRTool for Assessing Quality of Toxicological Data for Risk Assessments” (poster). Society of Toxicology Annual Conference, 2013.